



iabms conference <iabmsconference@shobhituniversity.ac.in>

**Fwd: DRDO support to organise the Conference**

2 messages

Registrar Shobhit University, Meerut <registrar@shobhituniversity.ac.in> Tue, Nov 29, 2016 at 5:58 PM  
To: iabmsconference@shobhituniversity.ac.in, jayanand <jayanand@shobhituniversity.ac.in>

----- Forwarded message -----

From: ERIP Conferences <erip\_conf@hqr.drdo.in>  
Date: Thu, Oct 27, 2016 at 9:32 AM  
Subject: DRDO support to organise the Conference  
To: registrar@shobhituniversity.ac.in, jayanand@shobhituniversity.ac.in

Dear Dr Jayanand,

DRDO has approved an amount of Rs 50,000/- (Rupees fifty thousands only) under Grants-in-Aid for organizing the "37th National Annual IABMS Conference on Current Advances in Integrated Biomedicine for Health Care" during 3-6 Nov 2016 at Shobhit University, Meerut. For release of funds you are required to submit e-transfer form (Format attached). Please note that at Column 1 (Authority holding the Account) and Column 2 exact name of the Account (As appears in Bank Pass Book) to be written. Copy of the cancelled cheque is to be attached. Scanned Copy of signed documents may be sent by e-mail and original by SPEED POST (Not Courier).

Please ack receipt by email.

Request accord PRIORITY.

Regards

MM Vashishtha  
Asstt. Director,  
Dte ER & IPR, Room No.437,  
DRDO Bhawan, Rajaji Marg,  
New Delhi-110011  
Ph:011-23007437  
Fax:011-23017582

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Registrar  
Shobhit Institute of Engg. & Tech  
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NH-58, Meerut-250110

iabms conference <iabmsconference@shobhituniversity.ac.in>  
To: kunwarsv@shobhituniversity.ac.in

Tue, Nov 29, 2016 at 6:04 PM



# Modeling Pulmonary Tuberculosis using Adaptive Neuro Fuzzy Inference System

Ajay Kumar Shrivastava, Akash Rajak, Niraj Singhal

**Abstract**— The problem of health monitoring has been taken as it is one of the challenging problems in rural areas where people many times do not get proper treatment and are not financially sound to visit doctors in city. Tuberculosis is an infectious disease and many lives are lost due to lack of proper treatment which in turn can be saved if proper prognosis is done in time. In this paper, a detailed study has been done to design a system for diagnosing tuberculosis using adaptive neuro fuzzy inference system (ANFIS).

**Index Terms**—Adaptive neuro fuzzy inference system, fuzzy system, neural networks, tuberculosis.

## I. INTRODUCTION

During the late 1980s, the number of researchers and engineers interested in neural networks (NNs) and fuzzy logic (FL) increased, dramatically introducing the NN and FL technologies into several application fields. Both technologies are widely used and are considered fundamental engineering technologies. Within several years, NN and FS fusing technologies were already being used in commercial products and industrial systems. Today these techniques are very popular in biomedical field like medical diagnosis. This paper illustrates a reliable prediction methodology to diagnose tuberculosis disease and classify between different stages of tuberculosis using Adaptive Neuro Fuzzy Inference System (ANFIS) classification techniques [1].

Despite the reduction in incidence and prevalence of tuberculosis (TB) through efforts worldwide, TB remains a global health problem. In 2013, 9.0 million new cases of TB, 1.5 million deaths among HIV-negative people with TB, and 360 000 deaths among HIV-positive people with TB were reported [7].

The ANN classification technique approach is based on the supervised Multi-Layer perceptron (MLP) with sigmoidal feed forward network and standard Back-propagation algorithm. The attractiveness of ANNs comes from their

capability to “learn” and/or model very complex systems and from the possibility of using them in classification. This approach is employed as a forecaster for stages of tuberculosis disease. The ANN is a self-learning technique with the ability to identify multi-parameter relationship and perform classification in nonlinear domain. In the medical field, ANNs have been used since the late 1980s, initially as an aid to diagnosis and treatment, and lately as a tool for the analysis of survival data.

Adaptive Neuro Fuzzy Inference System (ANFIS) is a kind of hybrid of neural network and fuzzy logic and is based on fuzzy inference system. In ANFIS, we combine both the learning capabilities of a neural network and reasoning capabilities of fuzzy logic in order to give enhanced prediction capabilities [5]. Since it integrates both neural networks and fuzzy logic principles, it has potential to capture the benefits of both in a single framework. Its inference system corresponds to a set of fuzzy IF-THEN rules that have learning capability to approximate nonlinear functions. Hence, ANFIS is considered to be universal approximator. The ANFIS model is very suitable and can generate excellent classification results provided that the right type and number of Membership Functions (MFs) are used in the classification task [4]. In the classification two different classification techniques are employed: an artificial neural network-based classifier and a hybrid ANFIS classifier. A neural classifier can learn from data, but the output does not lead itself naturally to interpretation. An ANFIS classifier is based on a three-layer feed-forward neural network and combines the merits of both neural and fuzzy classifiers while overcoming their drawbacks and limitations. The developed Adaptive Neuro Fuzzy Inference System (ANFIS) classifier exhibits high levels of accuracy, consistency and reliability, with acceptably low computational time and is a promising new development in the field of diagnosis of tuberculosis.

ANFIS and ANN architecture has been designed and implemented. System design includes training of data in ANN and ANFIS which is then subjected for implementation.

## II. PULMONARY TUBERCULOSIS

Tuberculosis (TB) is caused by infection with Mycobacterium tuberculosis, which is transmitted through inhalation of aerosolized droplets. TB mainly attacks the lungs, but can also affect other parts of the body (extra pulmonary tuberculosis). The disease is among the leading

Manuscript received January 22, 2015.

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Niraj Singhal, Faculty of Engineering & Technology, Shobhit University, Meerut, India, +919897037210, (e-mail: sonia\_niraj@yahoo.com).

# GYANSTHALI PUBLIC SCHOOL

(SENIOR SECONDARY)

Affiliated to C.B.S.E., New Delhi. (Aff. No. 2130790)



15/02/2016

## Certificate of Appreciation

Gyansthal public school appreciates the efforts of Dr Aniket Kumar, Assistant professor, Shobhit University to provide the practical knowledge of physics experiments to our school students. We wish same time of effort and help in future also.

Thanking you.

Director

Gyansthal Public School  
Miranpur (Muzaffarnagar)  
UP.-251315 Aff.No. 2130790

Registrar  
Shobhit Institute of Engineering & Tech  
(U.G. & P.G.)  
Nri-58, Meerut-250114

By-Pass Miranpur, Distt. Muzaffarnagar (U.P.) - 251315. Ph.: 01396 - 243880, 08392909105  
E-mail : gyansthalipublicschool@gmail.com



# FPGA Implementation of 2x2 Crossbar Switch

Aniket Kumar<sup>1</sup>, Gaurav Gautam<sup>2</sup>, Vijay Kumar Ram<sup>3</sup>

Assistant Professor<sup>1,3</sup>, M.Tech Scholar<sup>2</sup>

Shobhit University, Meerut, India<sup>1,2</sup>, CSS University, Meerut, India<sup>3</sup>

ani.vlsi2012@gmail.com<sup>1</sup>, gauravgautam06@gmail.com<sup>2</sup>, Vijayk10ster@gmail.com<sup>3</sup>

**Abstract:**

Crossbar Switch is switching equipment mainly used to manage signal traffic at telephone exchange. It is an assembly of individual switches between set of inputs and set of outputs. This equipment can be implemented using metal wires and switches using fusible wires. This paper presents the FPGA implementation of 2\*2 Crossbar switch using VHDL coding, as FPGA implementation is advantageous for having programmable interconnects that are volatile in nature, number of IO ports and is less expensive. The system is implemented on SPARTAN 3E.

**Keywords:** Field Programmable Gate Array (FPGA), Very high speed integrated circuits((VHSIC) hardware descriptive language, Finite state machine (FSM)

**I. INTRODUCTION**

Crossbar switches are extensively used today in a variety of applications including Network switching, parallel computing and various communications applications. There are off-the-shelf devices available that implement standard crossbar configurations [1]. The basic idea of crossbar switching is to give a matrix of  $n \times m$  sets of contact with only  $m+n$  activators or less to select one of then  $n \times m$  sets of contacts. This form of switching is also Known as coordinating switching [2].

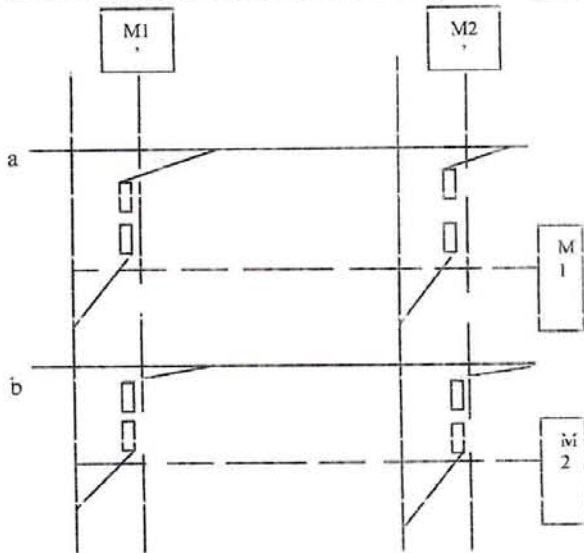


Fig.1.1 2\*2 Crossbar switching

**II. SWITCHING METHODS**

**Circuit Switching** -In this switching, an electrical path is maintained between the source and the destination earlier than any data transfer takes place. The Circuit may be realized by physical wires or coaxial cables. No other potential user can use the path even if it is idle. Three explicit phase involved in circuit switch data transfer:

- a) Connection establishment
- b) Data transmission

c) Connection release.

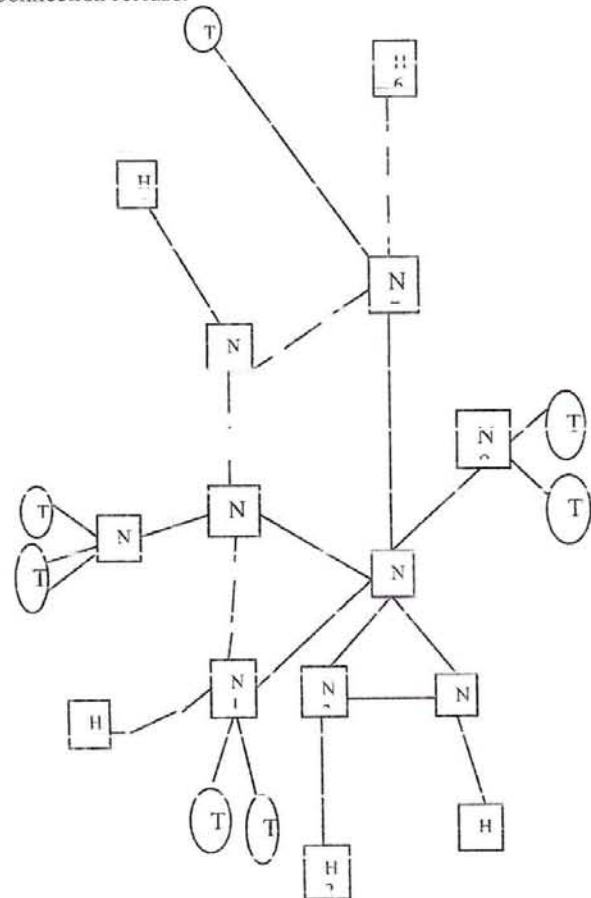


Fig. 1.2 Circuit switched Network

**PACKET Switching-** In the early years of 21st century, communication by packet flow in large-scale computer networks becomes much more important in our life than ever before. The problem of finding the shortest path between two nodes is a familiar problem in network analysis. Shortest path algorithms have been a subject of extensive research, resulting

Registrar  
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 (D...)  
 Meerut-250110



# ROLE OF GREEN SILVER NANOPARTICLES IN SUPPRESSING VARIOUS HUMAN PATHOGENESIS

Anvesha Sinha<sup>1</sup>, Jayanand<sup>1</sup> and Vinod Kumar<sup>2</sup>

<sup>1</sup>School of Biological Sciences, Shobhit University, NH-58, Meerpuram, Meerut-250110, India  
<sup>2</sup>All India Institute of Medical Sciences, New Delhi-110029, India

Received April 01, 2017

**Abstract.** The ability of microbial cells to use genetic modifications as a strategy for better survival and disseminate the changes with the community poses rise to the peril of antimicrobial resistance and multidrug resistance. Silver has long been known for its enhanced antimicrobial actions. Advancements in nanotechnology sciences has given a vent to the better applicability of silver salts, which is further enhanced by their green (plant mediated) synthesis resulting in Green Silver Nanoparticles (GSNPs). Apart from the antimicrobial actions, these particles have been found to be associated with the modulation of immune system and anticancer activities, bone cement additives, joint replacement therapies, dental fillings, wound dressings, etc. The diagnostic domain of medical science applies these particles as an effective agent of biosensing. The established applications of silver nanoparticles in these areas strongly advocate the future researches related to the analysis of the role of phytochemicals in augmenting the activities of silver nanoparticles in case of green synthesis. This review focuses on surfacing the mechanisms of actions of GSNPs on human disease-causing agents and conditions, which help may be helpful in developing the strategies for correcting/effluent pathological conditions in humans.

## 1. INTRODUCTION

The ever-expanding canopy of antimicrobial resistance and multidrug resistance to include more and more microorganisms has posed an imperative need in front of humanity to look for effective substitute to deal with the quandary as soon as possible. The emergence and spread of resistance among the microbial populace by means of genetic maneuvering against newly developed antibiotics in further endorse the necessity for innovation, diagnosis and prevention of human diseases [1]. Antibiotic resistance enhances the morbidity and mortality coupled with infections and plays a substantial role in the rising costs of care ensuing from extended hospital stays and the need for more expensive drugs. A number of pathogen-specific epidemiological models of drug resistance have been proposed for both community-acquired and hospital-acquired infec-

Corresponding author: Jayanand, e-mail: jayanand@shobhituniversity.ac.in

tions [2]. Most diseases that were previously characterized as being monomicrobial in nature are becoming increasingly recognized as true polymicrobial infections, involving the complex interaction of several microbial species. Different domains of antimicrobial science have merged together to combat the above predicament. Silver has long been identified for its effective antimicrobial properties. Ag<sup>+</sup> forms complexes with bases present in DNA and is a potential inhibitor of fungal DNAases [3-5], leading to enzyme inactivation by means of formatting silver complexes with electron donors containing oxygen, nitrogen, sulphur, thiols, phosphates, carbohydrates, hydroxyl, amines, imidazoles, indoles [4]. It causes dislocation of native metal cations from their usual binding sites in enzymes [5] and inhibit oxidation of glucose, glycerol, fumarate, and succinate in *E. coli* [4]. On the other hand the applicabil-

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 NH-58, Meerpuram, Meerut-250110

Engg. & Tech  
 (E-mail: engg@shobhituniversity.ac.in)  
 Meerut-250110



## Implementation of Algorithms for Medical Imaging on GPU

Arun Kumar Giri

Research Scholar Computer Science, Shobhit University, Meerut, U.P, India

Kuldeep Yadav

Research Scholar Computer Science, C.O.E.R., Roorkee, U.K., India

R. P Agarwal

Research Scholar Computer Science, Shobhit University, Meerut, U.P, India

### Abstract

*In recent day's many algorithms are being proposed for medical image processing for using compressed sensing for easy implementation on graphical processing units (GPU). The computational outcome of the algorithms confirms that speed of implementations has been enhanced considerably.*

### 1. Introduction

In recent years, different types of architectures are being developed to promote parallel computing for various imaging applications. Along with the recent ubiquity for multicore architectures there has been a dominant paradigm in computing for parallel processing. Almost all kinds of personal computers contain one type or the other as a parallel processing device. The Graphical Processing Units (GPUs) have been advanced to real time rendering or for 3D graphics are used for massive computation of parallel numerical. The GPUs are equipped with the several processor architecture as well as high bandwidth memory devices which increase the prospects of multithreading performance,

besides with the more fast arithmetic units. Various studies reported that there is noticeable enhancements in performance by implementing GPUs for running critical numerical computing tasks for different applications for biomedical imaging (Hartley et al, 2008), DNA sequence alignment (Schatz, 2007), molecular modeling and simulation (Stone et al, 2007) multibody dynamics (Tasora, Negrut and Anitescu, 2008) and quantum chemistry, etc (Ufimtsev and Martinez, 2008).

This paper deals with the implementation of proposed algorithms on GPU, for reconstructing of compressed sensing based on medical imaging and DE

Registrar  
Shobhit University  
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NH-50

Research & Tech  
it-250110



Ref: SU/RO/ADS/5(CS)/2018/241

Dated: 15<sup>th</sup> October 2018

To,  
**Ms. Deepthi Varshney**  
**D/o Sh. Gouti Varshney**  
 Flat 302, Arc Vista, Mangajai West,  
 Maharashtra, 92256969012  
 deepthi1602@gmail.com

URDC Result - Confirmation of Ph.D Registration

Dear Ms. Deepthi Varshney,

- Further to our letter No SU/RO/ADS/5(CS)/2018 dated 12<sup>th</sup> October, 2018
- URDC, in its meeting held on 13<sup>th</sup> October, 2018 has approved the following:-

Synopsis	Approved
Registration	Confirmed
Date of Registration	27 <sup>th</sup> August, 2017
Enrollment No	2017060006
Registration No	SU/Ph.D./P.T./CS/17/04
Subject	Computer Science & Engg.
Approved Research Topic	Design & Development of Efficient Model for Image Watermarking Applications to Protect Copy Rights
Name of School /Département	Department of Computer Science & Engg.
Prime Supervisor	Dr. Mamta, Assoc. Professor Department of Computer Science & Engg. Shobhit University, Meerut
Co-Supervisor	Dr. B.K. Sharma Professor, AKGEC, Ghaziabad (UP)

- Your research topic and supervisor(s) have been approved but the synopsis will be re-submitted duly incorporated the under mentioned suggestions of the RDC for approval of the competent authority:-
  - More review work is required
  - Review of literature needs to be modified according to the expert's comments.
- You are advised to carry out your research work and forward six monthly progress report in accordance with the Ph.D. Ordinance-2016 for our further necessary action.
- You are also requested to deposit the balance fee as per your comments communicated vide your mail dated 11 October, 2018, positively.

Yours Sincerely,

Vijay K. Singh  
 Registrar  
 Copy to:-

- Dr. Mamta, Assoc. Prof. (Supervisor)**  
Department of CSE, Shobhit Deemed University, Meerut
- Dr. B.K. Sharma**  
Professor, Department of CSE, AKGEC, Ghaziabad (UP)

Internal-  
 1. Coordinator, 2. Dept. of CSE, 3. Finance Officer, 4. Library, 5. Office copy

Registrar  
 Shobhit Institute of Engg. & Tech  
 (Deemed to be University)  
 NH-58, Meerut-250110



स्थापना-2016

# खुब लाल उत्कर्मित उच्च माध्यमिक विद्यालय

रामविशानपुर, राघोपुर (सुपौल)

स्कूल कोड- 42383

पत्रांक-खु.ला. / 16/238

दिनांक. 16.8.2016


मुझे यह बताते हुए वेदक खुशी हो रही है कि शोभित इन्सटिट्यूट आफ इन्फोर्मेशन टेक्नोलॉजी (डीमड इवी. यूनिवर्सिटी) के ओर इमरान एवं डा. अशोक गुप्ता ने विद्यार्थियों को इ-लीलेक्चरल प्रोपर्टी राइट की जानकारी दी। विद्यार्थियों ने डा. अशोक गुप्ता जी से कहा कि ऐसे प्रोग्राम आगे आने वाले आम भविष्य में करने की गुजरिश की। हम शोभित यूनिवर्सिटी के आभारी रहेंगे।

उदय शंकर कुमार

मुख्य प्राध्यापक

खुब लाल उत्कर्मित उच्च माध्यमिक विद्यालय

रामविशानपुर, राघोपुर (सुपौल)

  
Principal  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Patna-250110







Shobhit

# CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT  
29 EXECUTIVE OF

HAS PARTICIPATED AND SUCCESSFULLY COMPLETED  
THE "TRAINING ON E-COMMERCE" HELD DURING "10/02/2017" TO "11/02/2017"  
AT SHOBBIT UNIVERSITY CAMPUS

*[Handwritten signature]*

*[Handwritten signature]*  
Registrar  
Shobhit University, Sec-17, Gurgaon, Haryana  
(Deen Dayal Upadhyay Institute of Engg. & Tech.)  
NH-58, Modipuram, Gurgaon, Haryana-250110



Shobhit



**CERTIFICATE**

OF PARTICIPATION

THIS IS TO CERTIFY THAT  
\_\_\_\_\_  
IS EXECUTIVE OF

\_\_\_\_\_ HAS PARTICIPATED AND SUCCESSFULLY COMPLETED  
THE "TRAINING ON BUSINESS ETHICS AND INTEGRITY" HELD  
DURING "14/04/2017" TO "15/04/2017"  
AT SHOBBIT UNIVERSITY CAMPUS

*[Signature]*

*[Signature]*  
Registrar  
Shobhit University, Engg. & Tech.  
(Deemed to be University)  
NH-5b, Meerut-250110



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- All Mail
- Spam (2)
- Abstracts for IABMS

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- Dr. Jayanand Sho...
- Jay Anand
- nanil charma



### Proposal for Financial Assistance for holding National/International Symposium/ Workshop ( DBT/CTEP/01/201601473) approved IABMS

DbtCtepCell <ctepcell@dbtctep.gov.in>  
to jayanand, ma, vicechancellor, registrar

Respected Sir/Madam,  
Associate Professor Shobhit University

Congratulations!  
Your proposal ( DBT/CTEP/01/201601473) has been approved by DBT and you have be

The amount will be released subject to the submission of pending document(s), if any.

Initial grant will be released within 20 days of receiving minutes from our Committee.

Final grant and reimbursement will be released maximum within 3 months duration.

Below is the committee's remarks:

Recommended Rs 150000

There may be some delay in releasing the grant due to paucity of budget. However, the r  
required documents.

Sincerely yours,  
DBT-CTEP Management Cell

*by Registrar*  
 Registrar  
 Shobhit University of Engg. & Tech.  
 (Deemed to be University)  
 NH-58, Modinagar, Meerut-250110





M. S. ...

To  
The Registrar  
Engineering & Technology  
M. S. ...

Subject: ...  
Reference: ...

1. ...

2. ...

3. ...

4. ...

5. ...

6. ...

7. ...

Registrar  
Engineering & Technology  
(Dear ...)  
NH-58, ...

Stamp: Registrar - ...



Signature  
31-08-2014  
NH-58, ...

Signature

26



2014-2015

# SAI MEDICAL

---

To,  
Vice Chancellor,  
Shobhit University,  
Meerut, Uttar Pradesh - 250110

Sub: Request to organize a management development program (MDP) for our executives in the area of Biomedical Equipment Training.

Sir,  
Greetings!

We come across your official website and found that you have a pool of professors in the department of Biomedical Engineering in your esteemed organization. Hence we request you to organize a training programme for our executive to improve knowledge and productivity.

Please reply favorably with a tentative date and time to proceed further.

Sincerely,  
(Founder & COO)  
Sai Medical  
Meerut, U.P.

*[Faint handwritten text and illegible stamp]*

*[Handwritten signature]*  
Registrar  
Shobhit Institute of Engg. & Tech.  
NH-58, Meerut - 250110  
Tel: 2501101, 2501102, 2501103  
Fax: 2501104, 2501105  
E-mail: registrar@shobhit.edu



SB/SS/549/16-17  
Science and Engineering Research Board  
(SERB)

5 & 5A, Lower Ground Floor,  
Vasant Square Mall, Sector-B,  
Pocket-5, Vasant Kunj,  
New Delhi-110070

Dated: 20 September 2016

ORDER

**Subject:** Financial assistance for organizing 37th Annual National Conference of IABMS on "Current Advances in Integrated Biomedicine for Health Care" by Dr. Jayanand, Shobhit University, Meerut-250110 being held during 03-06 Nov., 2016.

\*\*\*\*\*

Sanction is hereby accorded to the payment of a sum of ₹ 1,00,000/- (Rupees One Lakh Only) to the Registrar, Shobhit University, Meerut-250110 during the financial year 2016-2017 to meet the expenses related to TA/DA to Young and Senior Indian Scientists and Pre-conference printing in connection with the above event.


2. The amount of ₹ 1,00,000/- (Rupees One Lakh Only) will be drawn by Finance & Budget Officer, SERB and disbursed to the Registrar, Shobhit University, Meerut-250110 by means of Cheque or Electronic Fund Transfer (NEFT / RTGS) as per beneficiary's Bank Details given below:

Bank Account Name	Shobhit Institute of Engineering & Technology (Shobhit University)
Bank Account Number	496604010029158
Bank Name & Branch	Union Bank of India, Shastri Nagar Meerut, Uttar Pradesh
Bank IFSC Code	UBIN0549665
Email Id of PI	iabmsconference@shobhituniversity.ac.in
Email Id of Beneficiary	registrar@shobhituniversity.ac.in
Email Id of Signatory	drvramesh@serb.gov.in, seminarsymposia@gmail.com

3. The expenditure involved is debit to "Fund for Science & Engineering Research (FSER)". This release is being made under "Seminar Symposia Scheme".
4. This sanction is issued with the approval of competent authority under delegated powers and vide sanction number **SERB/F/4137/2016-17** dated **19/09/2016**.
5. As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.
6. It is mandatory that the grantee institution is required to submit to this office, **audited Statement of Income-Expenditure, Utilization Certificate** (in duplicate as per the enclosed prescribed format) and **brief report of the above event** (max. 04 pages) within three months after the date of completion.
7. The balance amount, if any, may be returned through DD in favor of "Fund for Science & Engineering Research" payable at New Delhi.
8. The **Logo of SERB** is to be displayed on all Conferences / Seminars / Symposium material being used for the event.

(Dr. Ramesh V.)  
Scientist-'C'

Conti.....

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Meerut)  
Meerut-250110

**SANJAY GANDHI POSTGRADUATE INSTITUTE OF MEDICAL SCIENCES,  
LUCKNOW.**

PGI/DIR/RC/279/2016  
Dated: 2/3/2016

**OFFICE ORDER**

The Director, SGPGI, has accorded approval to Dr. K.J. Maria Das, Additional Professor, Department of Radiotherapy, SGPGI, for the Co-guideship of a Ph.D. student Mrs. Roopam Srivastava, registered under Dr. Jayanand as Guide, Assoc. Professor & Registrar, Shobhit University, Meerut.

**This is issued with the approval of the Director, SGPGI.**

(Dr. S. Srivastava)  
Scientist-IV

Copy to:

1. Dr. K.J. Maria Das, Additional Professor, Department of Radiotherapy, SGPGI.
2. Dr. Jayanand, Associate Professor & Registrar, Shobhit University, Meerut - 250110.
3. Head Department of Radiotherapy, SGPGI.
4. Mrs. Roopam Srivastava D/o Shri Rakesh Kumar Srivastava, B-22, Sector-62, International Oncology Centre, Fortis Hospital, NOIDA-201301.

(Dr. S. Srivastava)  
Scientist-IV

Registrar  
Shobhit Institute of Engg. & Tech.  
Meerut  
U.P.  
Pin-250110

V.D.S  
pls. keep the  
rec cord  
12/3/16





**Reference No:** 2017/094

**Date:** 10/03/2017

**To Whomsoever It May Concern**

This is to appreciate to Professor (Dr.) Mamta Bansal from Shobhit University for effectively carrying out consultancy collaborative project titled Career Counseling services and Global Collaborative Learning Program at Studenting Era, Noida along with our team for a period of 1 year (2016-17).

She has performed her duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish her all success in her future endeavours.

  
Director



Engg. & Tech



---

## Referring of paper for NICE Journal of Business

---

NICE Journal <editornjb@gmail.com>  
To: hodmanagement@cuh.ac.in

Mon, Aug 8, 2016 at 11:14 AM

Dear Dr. Anand Sharma,

Thank you for agreeing to review a paper titled " Corporate Governance and Financial Performance", a hard copy of which was personally handed over to you by Prof. D. P. S. Verma. You are requested to send the referee's report on the proforma attached.

With Regards,

--


Yours sincerely,

Dr. Neha Yajurvedi

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110



Reviewer's format.docx  
12K

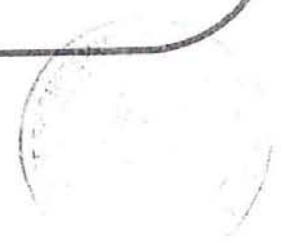
  
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NIT-SS, Meerut-250110



---

**Article for copy-editing**

---

**NICE Journal** <editornjb@gmail.com>  
To: gayatri\_mittal@yahoo.co.in

Tue, Jun 20, 2017 at 11:15 AM

Dear Dr. Gayatri,

Thank you for agreeing to copy-edit an article titled, "Consumer attitude towards online shopping....".  
I shall be grateful, if you improve the article and send it back by tomorrow.

--

**Prof. D.P.S. Verma**


**Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110**

**Mobile no.09818134500**

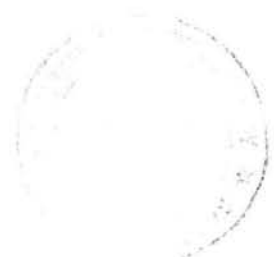
**Dr. Neha Yajurvedi**

**Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 826701005**

---

 **Shruti 13 june.docx**  
58K

  
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Shri. Anand Institute of Engg. & Tech  
(Formerly Shri. Anand Institute)  
Noida-201301, India. Phone-2501110



---

## Article for Review

---

NICE Journal <editornjb@gmail.com>  
To: kewal badhani <badhanikn@yahoo.co.in>

Wed, Jun 21, 2017 at 4:52 PM

Dear Prof. Badhani

Thank you for agreeing to review an article in the area of your interest.  
I attach an article titled, "Impact of Capital Expenditure on Firm Performance: An Empirical Study of Infrastructure Companies of India"  
I shall be grateful, if you send your review report at convenience.

--

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110

Mobile no.09818134500

Dr. Neha Yajurvedi

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 826701005

---


### 2 attachments



Reviewer's format.docx  
12K




Impact of Capital Expenditure on Firm Performance- Bhargav Pandya.docx  
49K

  
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Registrar  
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(Dist. Meerut, U.P.)  
NH-24  
250110

---

**Article for review**

---

**NICE Journal** <editornjb@gmail.com>  
To: knpsingh <knpsingh@mdi.ac.in>

Fri, Jun 30, 2017 at 9:48 AM

Dear Prof. Singh

Thank you for agreeing to review an article received for publication in NICE Journal of Business. I attach an article titled, "Impact of Capital Expenditure on Firm Performance: An Empirical Study of Infrastructure Companies of India"  
I shall be grateful, if you send your review report on the proforma attached at earliest.

With regards,

--

**Prof. D.P.S. Verma**

**Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110**

Mobile no.09818134500


**Dr. Neha Yajurvedi**


**Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 826701005**

---

**2 attachments**

 **Impact of Capital Expenditure on Firm Performance- Bhargav Pandya(1).docx**  
53K

 **Reviewer's format.docx**  
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Registrar  
Shri Ram Institute of Engg & Tech  
(Deer) (Deer) (Deer)  
NH-50B, Indraprastha, Delhi-250110

---

**Article for review**

---

NICE Journal <editornjb@gmail.com>  
To: sskhanka05 <sskhanka05@rediffmail.com>

Tue, Jun 20, 2017 at 11:09 AM

Dear Prof. Khanka,

Thank you for agreeing to copy-edit a couple of articles in the areas of your interest, mainly in Organisational Behaviour and Human Resource Management.

I attach an article titled, "Impact of Training and Career Development...".  
I shall be grateful, if you improve the article and send it back by tomorrow.

--

**Prof. D.P.S. Verma**


Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110

Mobile no.09818134500

**Dr. Neha Yajurvedi**

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 826701005

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Registrar  
Shri G. B. Pant Institute of Engg. & Tech  
(City)  
Meerut-250114

---

## Review of Article

---

NICE Journal <editornjb@gmail.com>

Fri, Apr 7, 2017 at 12:20 PM

To: Tejinder Sharma <sharmatejinder@gmail.com>, tsharma@kuk.ac.in

Dear Prof. Tejinder Sharma

Thank you for agreeing to review an article titled, "Relating Market orientation with internal market orientation through organisational learning", received by us for publication in NICE Journal of Business. You are requested to kindly review the article and point out its strengths and weaknesses and the suitability of publication in our Journal. We shall be grateful, if you send your review report within a week on the proforma attached.

With regards,

--

Yours sincerely,

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110

Mobile no.09818134500

Dr. Neha Yajurvedi

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110

---

### 2 attachments



Reviewer's format.docx

12K



market orientation.doc

205K

  
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13. Prof. Sanjay Mishra, School of Business, University of Kansas, Kansas (U.S.)
14. Prof. Ved Pal, Haryana School of Business, Guru Jambheshwar University, Hisar (Haryana)

Registrar  
Sri A.P.J. Institute of Engg. & Tech  
(Haryana School of Business)  
Jammu-06, Jammu  
Ph: 0191-2501110



**To Whomsoever It May Concern**

This is to certify that Dr. Niraj Singhal, Professor, Shobhit University was associated as a consultant on a collaborative project with our company for a period of 1 year (2016-17). He has a wide knowledge in software applications and having good exposure in academics & research.

He has performed his duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish him all success in his future endeavours.

A handwritten signature in black ink, followed by a horizontal line and the date "16/9/2016" written below it.

Director

A handwritten signature in blue ink above a blue rectangular stamp. The stamp contains the text: "Registrar", "Shobhit Institute of Engg. & Tech", "Sector-10, Gurgaon", and "UIN-250119".



---

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## Evaluation Request for IJITWE: An Arithmetic Pr...

From: no-reply@igi-global.com

To: sonia\_niraj@yahoo.com

Date: Saturday, 24 December, 2016, 05:05 pm IST



**eEditorial Discovery**  
Supporting Your Editorial Experience

Dear Prof. Singhal,

Your expert opinion is greatly valued for the review of the manuscript, "An Arithmetic Progression based Crawling Mechanism for Refreshing Web Data," which has been submitted to the International Journal of Information Technology and Web Engineering (IJITWE). Please use the following link to view the submitted manuscript as well as the evaluation form:

<http://www.igi-global.com/submission/erb-review-form/?eid=2a7e9f0e-93c8-4996-a7cc-e8ccf0026fc9>


Since this is a blind review, neither your identity nor the authors will be revealed. Please remember that by providing constructive comments you are doing a service to your colleagues even if the manuscript is not, in your opinion, publishable. Please submit your completed evaluation by no later than December 31, 2016.

Thank you for your time and contribution to the International Journal of Information Technology and Web Engineering (IJITWE), and I look forward to receiving your review.

If you have any questions, feel free to contact me, Dilip Sharma, at [drdilipsharma@ieee.org](mailto:drdilipsharma@ieee.org).

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सद्वि

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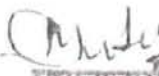
शोभित विश्वविद्यालय मेरठ

विषय:-

पत्रांक...०१४।.....

दिनांक: 16/05/2017

महोदय डा० निरंजन सिंगल जी व श्रीमत् विजय भादुरीजी, शोभित विश्वविद्यालय, मेरठ कम्प्यूटर साइंस विभाग, विद्यार्थियों को साइबर सिक्योरिटी की सवधानियों के बारे में एकपक्ष से 12 कक्षा के विद्यार्थियों को जानकारी दी, और इनको इस जानकारी को, घर में जो भी मेम्बर उपयोग करते हैं, क्या-क्या सावधानी बतानी चाहिए, कम्प्यूटर से सम्बन्धित ऐसी एकटीविधि करते रहते हैं। हमारे यहां ऐसे व्याख्यान शोभित विश्वविद्यालय की कक्षा-कक्षा लैपिक कर पीहले एकसरा से होते रहते हैं।

  
प्रधानाचार्य  
राजवंश उच्चतर माध्यमिक विद्यालय  
रसूलपुर कैलोरा खतौली (मु0 नगर)

  
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# AZAD HIGH SCHOOL

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Manager / Principal  
Beside Tehsil Sadar  
694,1, Rehmat Nagar  
Muzaffarnagar (U.P.)  
Ph. 9557268234

(A Recognised Minority Institution)

Ref. No. 602.....

Date 31/01/17.....

### Letter of Collaboration


The Azad High School, Muzaffarnagar and Dr. Poonam Devdutt, Professor, Shobhit University, Meerut collaboratively organized Career Building Seminar for X and XII school students on Jan30, 2017.

We appreciate the help and efforts in conducting such activities for our Children.

I look forward to this collaboration with the University.

Principal

  
Principal  
AZAD HIGH SCHOOL  
Muzaffarnagar

  
Registrar  
Shri Ram Institute of Engg. & Tech  
(Deer) Meerut  
NH-58, Meerut-250119



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Kammaniya Masjid, Meerut  
Mob : 09012104154, 09719606926

Ref No 816

25/01/2017

## Letter of Collaboration

The Bright Scholar Public School, Meerut and Dr. Poonam Devdutt, Professor, Shobhit University, Meerut collaboratively organized Career Building Seminar for X and XII school students on Jan 25, 2017.

We appreciate the help and efforts in conducting such activities for our Children.

I look forward to this collaboration with the University.

*[Faint signature and stamp]*  
The Registrar  
Shobhit Institute of Engg. & Tech.  
(D...)  
NH-02, Meerut-250110





# KUSUM PUBLIC SCHOOL

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School No. 60400

9410683692

9761777549

9927922626

Dashrathpur, Sakoti (Tanda) Meerut, 250223

Ref. No. ...A.T.D.B.....

Dated 28/01/2017

## Letter of Collaboration

The Kusum Public School, Meerut and Dr. PoonamDevdutt, Professor, Shobhit University, Meerut collaboratively organized Career Building Seminar for X and XII school students on Jan28, 2017.

We appreciate the help and efforts in conducting such activities for our Children.

I look forward to this collaboration with the University.

Principal  
Kusum Public School  
Dashrathpur NH-58  
.....Meerut.....

(S.K SHARMA)  
PRINCIPAL

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State Council of Engg. & Tech  
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U.: www.shobhituniversity.ac.in

Dated: March 12, 2014

Ref : SU/RO/ADS/5(BI)/2014

To,  
Ms. Maninder Sandhu  
Lab No.-34, National Research Centre on PLT,  
Biotech Labs Building, New Delhi-110012, M- 9899914749,  
E.mail. [manindersandhu@indiatimes.com](mailto:manindersandhu@indiatimes.com), [coolms.andhu@gmail.com](mailto:coolms.andhu@gmail.com)

URDC Result – APPROVAL OF SYNOPSIS

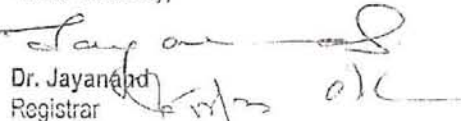
Dear Ms. Maninder Sandhu.,

1. Further to our letter No. SU/RO/ADS/5(BI)/2013 dated January 14, 2013 and SU/RO/ADS/5(BI)/2013 dated June 13, 2013.
2. URDC, in its meeting held on March 07, 2014 has approved the following :-

Synopsis	: Approved
Registration	: Confirmed.
Enrolment No.	: 2012010002
Registration No.	: SU/Bioinformatics./Ph.D./PT/ 12/02
Date of Registration	: 1 <sup>st</sup> December, 2012
Approved Research Topic	: "In Silico analysis of Microsatellite length variation and its correspondence with gene expression pattern under salt stress in rice"
Supervisor(s)	: 1. Dr. Rekha Dixit, Asso. Professor Shobhit University, Meerut -250110 (UP) 2. Dr. Amitha Charu Rama Mithra NRC on plant Biotechnology, IARI, PUSA Campus, New Delhi

3. You are advised to carry out your research work and forward six monthly progress report in accordance with Para 14 of Ph.D. Ordinance (December-2009 print) for our further necessary action.

Yours Sincerely,

  
Dr. Jayanand  
Registrar

1. Dr. Rekha Dixit, Asso. Professor  
Shobhit University, Meerut -250110 (UP)
2. Dr. Amitha Charu Rama Mithra  
NRC on plant Biotechnology,  
IARI, PUSA Campus, New Delhi ~~Maharani's Science College for Women, BANGALORE-01,~~  
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## Asian Research Consortium

Asian Journal of Research in Business Economics and Management  
Vol. 7, No. 2, February 2017, pp. 1-17

ISSN 2249-7307  
A Journal Indexed in Indian Citation Index  
DOI NUMBER: 10.5958/2249-7307.2017.00005.6

Asian Journal  
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# Women Empowerment through Entrepreneurship for their Holistic Development

Shabana\*; Asma Khan\*\*; Neha Vashistha\*\*\*; R. A. Siddique\*\*\*\*

\*Assistant Professor,  
Nice Management College,  
Shobhit University,  
Uttar Pradesh, India.


\*\* Assistant Professor,  
Nice Management College,  
Shobhit University,  
Uttar Pradesh, India.

\*\*\*Assistant Professor,  
Nice Management College,  
Shobhit University,  
Uttar Pradesh, India.

\*\*\*\*Assistant Professor,  
COVAS, SVPUAT,  
Meerut, India

### Abstract

This conceptual paper emphasizes on the role played by women entrepreneur in contributing to at most development of economic growth and social living. Women entrepreneurship means an act of business ownership and business creation that empower their economic strength as well as position in the society. There is a bi-direction relationship between economic development and women empowerment. In one direction, development plays a major role in driving down inequality between men and women. In other direction, women empowerment facilitates development. Women have amazing ability to work hard and develop innovative ideas to construct economically sound and healthy society. Participation of women in the economy is the part of solution to finance and economic crisis. In US 6.4 Millions self employed women provide employment for 9.2 Million people. The World Economic Forum (WEF) data shows that women have relatively high share in

  
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# Guru Govind Singh Senior Secondary School

(Affiliated to C.B.S.E., New Delhi)

**Rohta, Meerut (U.P.)**

योग: कर्मसु कौशलम्

Ref No 18

April 2017

## Letter of Collaboration

The Guru Govind Singh Senior Secondary School, Meerut and Ms. Shiva Sharma, Assistant Professor, Shobhit University, Meerut collaboratively organized Health Awareness Camp from April 06-07, 2017 for our school students.

We appreciate the help and efforts in conducting such activities for our Children.

I look forward to this collaboration with the University.

  
PRINCIPAL  
Guru Govind Singh Sr. Sec.  
Rohta (Meerut)

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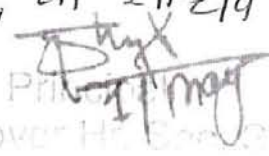
# GYAN SAROVER HIGHER SECONDARY SCHOOL

LAKHWAYA - RASOOLPUR, MEERUT.

Ref. No. GSHSS /19/071

Dated: 27/04/201

मुझे यह बताते हुए ज्ञान सरोवरी का अनुभव हो रहा है कि शीतल इन्स्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (डीएड टू बी यूनिवर्सिटी) के डा० सिद्धांत नन्दन राहुल ने एवं डा० सिद्धिदा तिवारी ने कृषि एवं विकास का राष्ट्रीय स्तर पर एक सेमिनार का आयोजन किया। इस सेमिनार में कृषि एवं विकास के नये तकनीक के बारे में अवगत कराया। क्षेत्त्रों को कृषि की महत्व एवं शेजगार का विशेष आयाम एवं स्वयंसेवा के बारे में जानकारी प्राप्त हुई। इस तरह के कार्यक्रम का आयोजन विश्वद्यालय के तरफ से आने वाले वर्षों में आयोजित होगा। इस विषय से विश्वद्यालय के सचिव ने जानकारी प्रदान की।

  
Principal  
Gyan Sarover Higher Secondary School



Principal  
Gyan Sarover Higher Secondary School  
Lakhways Rasoolpur, Meerut-200110






## Delhi Public School Nawada

Delhi Public School Nawada, Dist. Nawada, Bihar - 805110  
Affiliated to CBSE, New Delhi

We are happy to inform that Dr. Vipin Tyagi of Shobhit Institute of Science & Technology, has conducted a 'Maths Olympiad' on 26/08/16 for XI<sup>th</sup> and XII<sup>th</sup> standard. Based on immense dedication of students and Dr. Vipin Tyagi regarding this Olympiad is a huge success event. We hope to organized such events with Dr. Vipin Tyagi in future.

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# Optimal placement of STATCOM for improving voltage profile and reducing losses using crow search algorithm

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**Abstract**— Continuous expansion of power demands and lack of supply have led the study on Flexible Alternating Current Transmission System (FACTS) devices, a fascinated area for research. Considering the benefits and applications of FACTS devices, it aims to investigate the optimal placement of Static Synchronous Compensators (STATCOMs) to enhance voltage stability limits and to reduce the transmission losses. An objective function is modeled to minimize the total line losses in the power system by placing STATCOM. Using this objective function, the best location for placement of STATCOM is achieved by using Crow Search Algorithm (CSA) optimization technique. IEEE 14, IEEE 30 and IEEE 57 standard bus systems are used to validate the proposed method.

**Keywords**—Flexible Alternating Current Transmission System (FACTS), Static Synchronous Compensator, and Crow Search Algorithm(CSA).

## I. INTRODUCTION

Mismatching of supply and demand give rise to various transmission losses. To compensate this, it either need bulk generations, extension of transmission lines, building of new lines, improvement of voltage profiles or even operation of transmission lines close to their thermal limits. All these methods cause voltage drops, increased power angle and thus power losses. This can be maintained by supplying reactive power using Flexible AC Transmission System (FACTS) devices. It uses high speed thyristors like GTOs, IGBT, etc for switching in and out capacitors, reactors, phase shift transformers, etc as per the desired operation. Using this, problem of overvoltage, losses, insecurity, voltage instability, collapse, deregulation and even blackout can be cured [1]. STATCOM is a shunt controlled FACTS device and is preferred because of its faster response, better performance, superior function characteristics and greater flexibility [2]. It is very costly and complex device, therefore placement on all buses is not economical. Also, its efficiency dependent on type, size, number and location in the transmission system. In this paper, approach of placement of STATCOM by using recently developed Crow Search Algorithm (CSA)[3], is used as the solution for the above mentioned problem. Short description about FACTS devices and STATCOM is given in section II. Crow Search Algorithm is discussed in Section III. Section IV presents Mathematical Modeling of Newton Raphson equation with STATCOM. Section V incorporates

results for IEEE 14, 30 and 57 bus systems. The paper is concluded and discussions on future scopes are in section VI.

## II. PRINCIPLE OF STATCOM

STATCOM can be defined as "A static synchronous generator operated as a shunt connected static VAR controller whose capacitive or inductive output current can be controlled independent of the ac system voltage." [1]. STATCOM applications include real and reactive power control, enhancement of power transmission capability, dynamic voltage control, elimination of fluctuations of transmission line, transient stability improvement and also it can be used as an active filter to absorb or eliminate system harmonics [2].

### A. The Structure of STATCOM

It produces a balanced set of sinusoidal voltage, at fundamental frequency with fast changing phase angle and amplitude as per the requirement [4].

Fig.1(a) shows the schematic diagram of STATCOM consisting of a coupling transformer, a voltage converter and

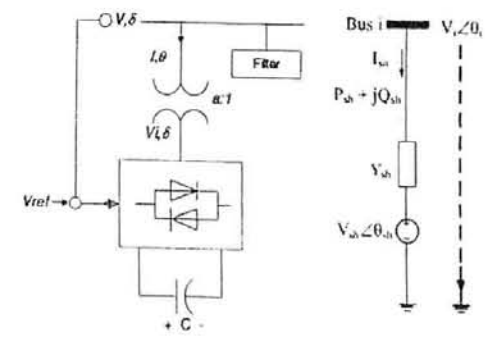


Fig. 1(a) Basic structure Fig. 1(b) Equivalent circuit of a STATCOM

a controlled DC voltage source. It can absorb or inject reactive power to and from the connected bus and therefore regulates the connected bus voltage. STATCOM can work with any of the power inverter: may it be a current source inverter (CSI) or a voltage source inverter (VSI) [5]. However, due to cost

*[Handwritten signature]*



# VHDL Implementation of 4x4 Crossbar Switching

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### Abstract:

Crossbar Switches are collection of many switches which are arranged in matrix form. It contain multiple inputs and outputs lines which form a crossed pattern of interconnecting lines between which a connection may be established by closing a switch located at each pattern. This equipment can be implemented using metal wires and switches using fusible wires. This paper presents the simulation and implementation of 4\*4 Crossbar switch using VHDL coding on software Xilinx (6.1i), Project Navigator and Model Sim (SE-EE5.4a) base on structure configuration.

**Keywords:** ARBITTER, CONTROLLER, MODELSIM, PROJECT NAVIGATOR, XILINX, 4x4 CROSSBAR CIRUIT.

### I. INTRODUCTION

Crossbar switches are extensively used now a days in a variety of applications including Network switching, parallel computing and various communications applications. There are so many off-the- bookshelf devices available that implement standard crossbar configurations [1]. An n\*m crossbar switch refers to a structure that is capable of connecting n inputs to the m outputs in a matrix manner such that a horizontal and a vertical wire can be short circuit to connect a input and a output [2].

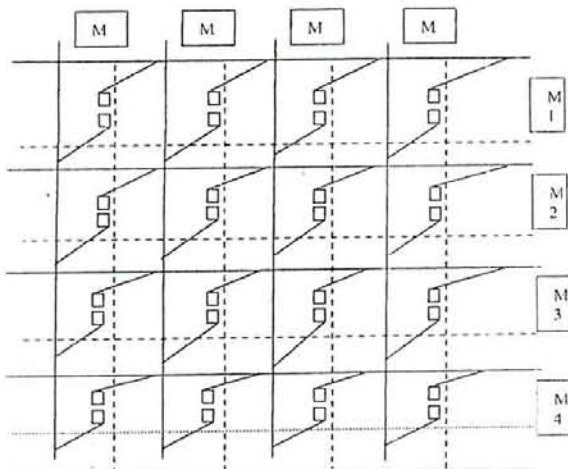


Fig.1.1 4\*4 Crossbar switching

### II SWITCHINGMETHODS

**Circuit Switching** -In this type of switching before data transfer takes place an electrical path is maintain between source and destination. The Circuit may be realized by physical wires or coaxial cables [3]. There are Three explicit phase involved in circuit switch data transfer:

- Establishment of connection between source and destination
- Transmission of data between source and destination.
- After transmission complete, release the connection

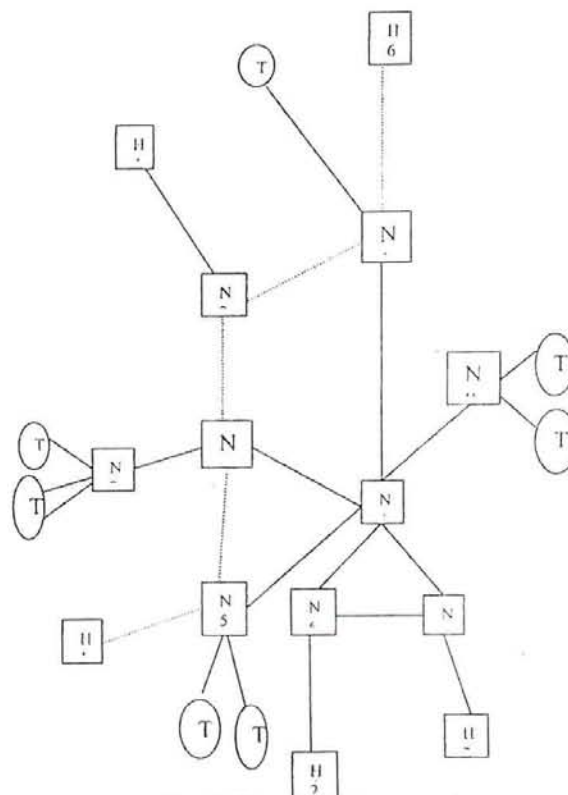


Fig.1.2 Circuit switching network.

**PACKET Switching-** In the latest years of 21st century, communication through packet flow in large-scale computer networks becomes much more important for our life than ever before. The problem of finding the shortest path between two nodes is a familiar problem in network analysis. The Shortest path algorithms have been a subject of extensive research, resulting in many algorithm for various situations and constrain. Adaptive routing algorithms is used, which can select the route of packets dynamically and have been extensively studied to do the best use of bandwidth in interconnection networks of especially in parallel computers and system area networks (SANs)[4].

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# An Image Enhancement Steganography Technique for Colour Images Coding

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**Abstract**— *The internet as a whole does not use secure links, thus information in transit may be vulnerable to interception as well. It is important to reduce the chances of the information being detected during the transmission. This is an important issue now-a-days. This paper defines the techniques used for information hiding, their applications and also discusses the drawbacks of implementing those techniques independently. The motivation for this work includes provision of protection of information during transmission without any detection of information. A PSNR calculator tool has been used for measuring the image quality factors. Further, these parameters have been used to generate graphical outputs and tabular values for comparison with the best known image steganographic techniques. The image quality metrics i.e. higher Peak Signal to Noise Ratio (PSNR) and lower Mean Square Error (MSE) obtained indicates that the proposed technique for image steganographic is good one as PSNR value is greater than 45 and MSE value lies in 0-1.*

**Keyword**— Steganographic, PSNR, MSE, Information Hiding

## I. INTRODUCTION

Information security means protecting information and information systems from unauthorized access, use, disclosure, disruption, modification or destruction. The terms information

security, computer security and information assurance are being used frequently interchangeably. These fields are interrelated and share the common goals of protecting the confidentiality, integrity and availability of information. However, there are some subtle differences between them. These differences lie primarily in the approach to the subject, the methodologies used and the areas of concentration. Information security is concerned with the confidentiality, integrity and availability of data regardless of the form the data may take electronic, print or other forms. Computer security can focus on ensuring the availability and correct operation of a computer system without concern for the information stored or processed by the computer. The field of information security has grown and evolved significantly in recent years. It offers many areas for specialization including: securing networks and allied infrastructure, securing applications and databases, security testing, information systems auditing, business continuity planning and digital forensics science etc. steganographic is a very old method of passing messages in secret. This method of message cloaking goes back to the time of the ancient Greeks. The historian Herodotus [1] has written about how an agent wrote a message warning of an invasion on the wood part of a wax tablet. Since, messages were normally inscribed in the wax



## Effect of alcohol on biochemical properties and thermal stability of weight bearing bones in male Wistar rats

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Alcohol consumption poses significant risk for osteoporosis development. The present study deals with changes in biochemical properties and thermal stability of weight bearing bones in alcohol noshed rats. About 48 male Wistar rats were equally divided into control (Gr. I) and treatment groups Gr. II-IV subjected to 10, 20 and 30% ethanol administration, respectively. At the end of study, rats were sacrificed by decapitation under deep anesthesia and tibiae and fibulae bones were resected and used for biochemical (DNA, RNA, proteins and ash/inorganic minerals concentration) and thermogravimetric analyses (TGA). Administration of ethanol at higher doses (Gr. III & IV) had depressing effects on the nucleic acids and protein concentrations. The inorganic mineral content was also found to be lesser than that of control. The TGA revealed an increasing %weight loss in Gr. III and IV. This increase in %weight loss is due to decrease in mineral content causing calcification of bones and resulting in osteoporosis. The present study provides an insight that chronic consumption of alcohol negatively affects the biochemical properties and stability of bones, augmenting risks of osteoporotic fractures. However, at lower doses, alcohol administration may be helpful in bestowing thermal strength to bones.

**Keywords:** Ash content, Osteoporosis, Thermogravimetric analysis (TGA)

Corrosion is a fundamental process playing an insignificant role in economics and safety of metals. Among metals, Mild steel is a widely used commercial metal for fabrication, transportation and storage. The acid solutions are widely used in industries for acid pickling, industrial acid cleaning, acid descaling and oil well acidizing processes for mild steel and other alloys. Different concentrations of hydrochloric acid are most commonly used in these industries for this purpose. The most practical method for protection against corrosion of mild steel is the use of inhibitors, especially in acidic media and hence it leads the corrosion researchers to study the effect of various corrosion inhibitors on mild steel in hydrochloric acid environment.

Bone is the collagenous matrix impregnated with mineral salts, especially calcium hydroxyapatite. Its cellular, vascularised structure serves as storehouse of calcium and phosphorous and contributes in the

regulation of the mineral metabolism<sup>1,2</sup>. Trace elements such as iron, fluorine, zinc, magnesium, copper, lead, etc. play an important role in bone remodeling and maintenance of structural and functional integrity of bones<sup>3-5</sup>. Mechanical strength of the bone tissue depends mainly on the nano-size apatite crystals. It is generally considered that the mineral resists compression and the collagen fibres withstand torsion and tension<sup>1,6</sup>.

Bone undergoes lifelong remodeling<sup>7,8</sup> which involves complex physiological mechanism that is governed by several biophysical and biochemical processes. The bone growth and remodeling are modulated by genetic and systemic factors<sup>9</sup>. Although peak bone mass appears to be largely under genetic control<sup>10</sup>, it can be influenced by hormonal, nutritional, environmental and lifestyle factors, including tobacco and alcohol consumption<sup>11</sup>.

Long-term alcohol consumption can interfere with bone growth and remodeling, resulting in decreased bone density and increased risk of fracture. The cause of osteoporosis is a multifactorial entity in which alcohol consumption is known to play a vital part<sup>11</sup>. The direct and indirect effects resulting in osteoporosis through the many cell types, hormones,

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# Identification and profiling of high temperature responsive miRNAs in French bean (*Phaseolus vulgaris* L)

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### Key words:

miRNA; MYB; quantitative PCR; Transcription factors.

## ABSTRACT

MicroRNAs (miRNAs) are group of small, non-coding RNAs that play important roles in plant growth, development and stress response. There have been an increasing number of investigations aimed at discovering miRNAs and analyzing their functions in model plants. In this study, we constructed high temperature stress induced small RNA libraries and characterized 26 potential miRNAs belonging to 21 families in French bean. A total of 140 annotated potential targets were found, of which majority were transcription factors (MYB, *bHLH*, GRF1, bZIP, NAC etc.) which may play an important role in stress resistance. RT-qPCR and Northern blot analysis revealed differential expressions of candidate miRNAs and their target genes. The observed induction of miRNA expression is correlated with the down regulation of their targets. Investigation of gene ontology linked with targets of miRNAs forecasted their involvement in various biological functions. We anticipate the further studies may offer new avenues in developing stress tolerant variety of French bean.

## 1. INTRODUCTION

The modern globalization and extensive industrialization has resulted in reduced agricultural production. The exposure to various stressful environmental conditions and their sessile nature made plants to evolve advanced adaptive strategies to cope and sustain. These adaptations exhibited as physiological responses which were fine-tuned through induction of cascades of molecular mechanisms operating at transcriptional levels [1]. Advancement in the genomic technologies emphasized the role of non-coding RNAs as king-tuners of genomes and un-wrapped their involvement in genome dynamics, evolution and regulation. miRNAs are 21-24 nucleotide long, single stranded RNA molecules coded by their own transcripts known to exhibit gene regulation through target mRNA cleavage or translational repression mediated via RISC complex. Several roles of gene

regulation have been attributed to these molecules which include development, signalling, defence and stress response. A number of miRNAs were demonstrated to function in biotic and abiotic stress responses in plants [2-4]. The role of miRNAs in plants infected by pathogenic bacteria, viruses, nematodes, and fungi has been widely reported [5, 6]. Various functions of miRNAs during abiotic stress has been established, which include cold [2, 7], drought [8] and oxidative stress induced by heavy metals, salinity, and nutrient deficiency [9]. Diverse set of miRNAs were also identified with heat stress response in wheat [10], Brassica rapa [11], barley [12]. French bean is one of the most important legume crop grown worldwide.

The major cues affecting the crop yield includes high temperature, nutrient deficiency, drought and high salinity. Constant rise in ambient temperature has been considered as the detrimental factor and affect the life processes which are multifarious, often lethal bringing alterations in plant growth, development, physiological processes and yield. Majority of the studies have concentrated on regulation of genes which are responsible for synthesis of osmo-protectants, detoxifying enzymes, transporter and other regulatory proteins [1].

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# 3H NANDIT RUDRAKSHAI

To,

Dr. Manisha Rastogi

Professor, Shobhit University, Meerut

**Regarding:** Collaborative Activity at Rudraksha Research Centre

Dear Professor

We request you to organize collaborative event on Rudraksha Jewellery making at village Maithana Meerut Uttar Pradesh. Our team members will support you during this event and it would be helpful for the villagers to form the self-help groups. We will highly thankful to you.

*Dhruv*  
10/12/16

Regards

Gali No. 3, Phool Bagh Colony, Meerut-250002

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# Implementation of High Speed and Low Power Novel Radix 2 Booth Multiplier using 2248 BEC Converter

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Shobhit University, Modipuram, Meerut, U.P, India<sup>2</sup>

## Abstract:

A multiplier is one of the key hardware blocks in most digital and high performance systems such as FIR filters, digital signal processors and microprocessors etc. With advances in technology, many researchers have tried and are trying to design multipliers which offer either of the following- high speed, low power consumption, regularity of layout and hence less area or even combination of them in multiplier. Thus making them suitable for various high speed, low power, and compact VLSI implementations [1]. However area and speed are two conflicting constraints. So improving speed results always in larger areas. So in this research main aim was to find out the best trade off solution among the both of them. It helps us to make a proper choice among different adders in booth multiplier that is used in different digital applications according to requirements.

**Index Terms:** radix-2 booth multiplier, ripple carry adder, novel carry select adder (CSA), binary to excess-1 converter

## I. INTRODUCTION

As the scale of integration keeps growing, more and more sophisticated signal processing systems are being implemented on a VLSI chip. These signal processing applications not only demand great computation capacity but also consume considerable amount of energy. While performance and area remain to be the two major design tolls, power consumption has become a critical concern in today's VLSI system design [1]. Multiplication is normally done in two steps- Partial product generation and addition. In booth multiplication, partial product generation is done based on radix 2 encoding which is as given by Table1. Bits of multiplicand (Y) are grouped from left to right and corresponding operation on multiplier (X) is done to generate partial product. The addition of partial products is carried out by using CSA. In the binary number system the digits, called bits, are limited to the set {0, 1}. The result of multiplying any binary number by a single binary bit is either 0, or the original number. This makes forming the intermediate partial-products simple and efficient. Summing these partial-products is the time consuming task for binary multipliers. For applications where this approach does not provide enough performance, multipliers can be implemented directly in hardware.

## II. NORMAL BOOTH MULTIPLIER

Parallel Multiplication using basic Booth's recoding algorithm technique based on the fact that partial product can be generated for group of consecutive 0's and 1's which is called Booth's recoding. This recoding algorithm is used to generate efficient partial product. These partial product always have large number of bits than the input number of bits. This width of partial product usually depends upon the radix scheme used for recoding. So, these scheme uses less partial products which comprises low power and area. Fig. 2 shows the flow chart for normal booth multiplier which uses Ripple Carry Adder.

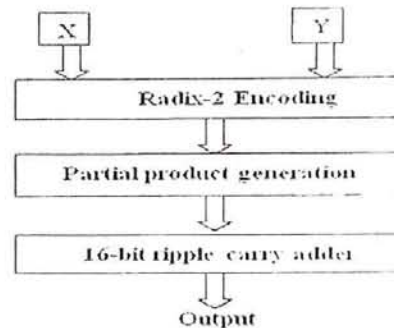


Figure.1. Flow chart for normal Booth Multiplier

The most straight forward implementation of final stage adder is Ripple Carry Adder in which cascaded full adders uses the carry generated in previous full adder works as input carry for next stage full adder. N bit Ripple Carry Adder as shown in Fig. 2 requires N full adders.

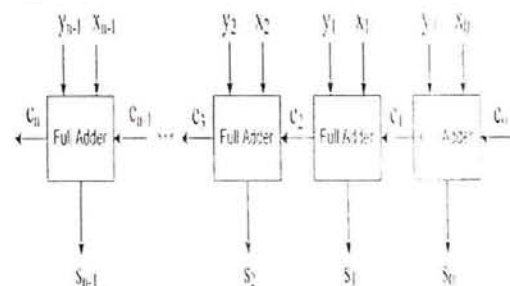


Figure.2. Block Diagram of RCA

## DRAWBACKS OF USING RIPPLE CARRY ADDER:

- It is not efficient when large numbers of bits are used.

## Anatomy-based definition of point A utilizing three-dimensional volumetric imaging approach for high-dose-rate (HDR) intracavitary brachytherapy dose prescription when treating cervical cancer using limited resources

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This study was designed to determine whether volumetric imaging could identify consistent alternative prescription methods to Manchester/point A when prescribing radiation dose in the treatment of cervical cancer using HDR intracavitary brachytherapy (ICBT). One hundred and twenty-five treatment plans of 25 patients treated for carcinoma of the cervix were reviewed retrospectively. Each patient received 5 fractions of HDR ICBT following initial cisplatin-based pelvic chemoradiation, and radiation dose was originally prescribed to point A (ICRU-38). The gross tumor volume (GTV) and high-risk clinical target volume (HR-CTV) were contoured in three dimensions on the CT datasets, and inferior–superior, anterior–posterior, and left–right dimensions HR-CTV were recorded along with multiple anatomic and skeletal dimensions for each patient. The least square–best fit regression lines were plotted between one half of the HR-CTV width and pelvic cavity dimension at femoral head level and at maximum cavity dimension. The points in both plots lie reasonably close to straight lines and are well defined by straight lines with slopes of 0.15 and 0.17; intercept on y-axes of -0.08 and -0.03. point A, at the same level as defined based on applicator coordinates, is defined using this correlation, which is a function of distance between femoral heads/dimensions of maximum pelvic cavity width. Both relations, defined by straight lines, provide an estimated location of point A, which provides adequate coverage to the HR-CTV compared to the point A defined based on applicator coordinates. The point A defined based on femoral head distance would, therefore, be a reasonable surrogate to use for dose prescription because of subjective variation of cavity width dimension. Simple surrogate anatomic/skeletal landmarks can be useful for prescribing radiation dose when treating cervical cancer using intracavitary brachytherapy in limited-resource settings. Our ongoing work will continue to refine these models.

PACS number(s): 87.55.D-, 87.55.ne

Key words: high-dose-rate brachytherapy, cervical cancer, American Brachytherapy Society, point A, Groupe européen de curiethérapie — European Society for Therapeutic Radiology and Oncology

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## Crop Selection Algorithm- Technique for Price Prediction

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**Abstract-** As is known agriculture is intricate zone where consistently new data is aggregated at expanding rate. Vast segment of this learning is as composed records, substantial part coming about because of studies led on data and data gained in agriculture from clients. Today there is an extraordinary propensity to make this data accessible in electronic organization, changing over data into learning, which is no simple assignment. With the expansion in expenses in agricultural ventures and expanding need to control these costs, suitable examination of agrarian data has turned into the subject of awesome significance.

**Index Terms-** Crop Selection Algorithm (CSA), Monsoon, Forecasting, Climate, Crop planning, Data mining, Prediction, Water harvesting.

### INTRODUCTION

Farming data frameworks contain monstrous measures of data including data about products, clients, and market. With the utilization of data mining techniques, valuable examples of data can be found in this data, which will be utilized for further research and report assessment. Important question is the means by which to characterize substantial measure of data. Programmed characterization is done on the premise of similitude present in the data. This kind of characterization is just valuable if the conclusion procured is adequate for the agronomist or the end client. The choice of crop to plant is based on multi parameters like water availability, predicted price, climate conditions, soil type, fertilizer availability etc. Climate parameters can be controlled using shade net. Fertilizer availability can be controlled using stocking. Soil type can be managed using pit soils. But the major uncertainty is water availability and the predicted price. Once we these price fluctuation, we see that it has a pattern and the monsoon rain follows a 7 year repletion cycle in most parts of INDIA. So this motivated us to view the crop suggestion as data mining problem and design a predictor model applying data mining algorithms to solve it.

### Related work

In [1], authors applied ARIMA model to predict the demand for vegetables in market. They used past demand and built a ARMIA model to predict the demand. However their model worked only for certain vegetables.

In [2], authors developed a decision tree model to predict the fluctuation is pork price in china market. They took 10 year of data and based on it developed a model to predict if price will fall, rise or stable. The model was used an early warning system to alert for pig price risk.

## Multi-Model Approach Focusing on Crop Planning

<b>Meenakshi Malik<sup>1</sup></b>	<b>Mamta Bansal<sup>2</sup></b>	<b>R.P. Agarwal<sup>3</sup></b>	<b>R. V. Singh<sup>4</sup></b>	<b>A. K. Kanojia<sup>5</sup></b>
Scientist National Research Centre for IPM	Associate Professor Shobhit University	Advisor & Former VC Shobhit University	Principal Scientist National Research Centre for IPM	Senior Scientist National Research Centre for IPM

**Abstract-** Data mining techniques can help to understand the underlying patterns from mass data and if these patterns can be used to help farmers for crop planning, it would reduce the risk and guarantee a minimum profit for farmers to sustain their livelihood. The paper will use multi-classifier to create prediction model for agricultural domain in this research project. This work is an attempt in that direction to help farmers in crop planning.

**Keywords-** Agriculture, Classification, Arima, Neural Model, Multiperception, Lake Level Model, Price Forecasting.

### INTRODUCTION

Most of agricultural activities in India are dependent on Monsoon. Monsoon waters are collected in various dams and lakes and used for agriculture. Different crops have different irrigation requirements and water consumption is different for different crops. Many times farmers have planted more water demanding crop but in case of rain failure they are in total loss. Also the crops depend on soil type and climate conditions. Because the country is quite big, the farmers in one part do not know about the crops cultivated in another area and if they plant the same the supply of that particular crop increases and price cripples. This has been observed in most markets in India. Prices soar some times and it also drops to very low value most times. The main problem for farmers is this price fluctuation. Only if a minimum price is assured for their produce, farming will be profitable in prices, but agriculture industries have very high fluctuation and most farmers are confused about which crop to plant for the next season.

Many data mining models have been proposed in agriculture for different applications like rain prediction, crop price prediction but in this work we combine multiple models to suggest the crop to be planted profitably for farmers. Multi-model prediction is being recently used in many fields like stock market price prediction. Multi-model prediction gives far better accuracy than single models. In this work we have also cascaded multi-model predictor together to get the combined multi predictor to predict price of each crop and suggest the crop which is less risky for the farmers.

### PROBLEM DEFINITION

Given the past  $N$  time period values for lake levels and the crop prices in the market, the objective of this work is to predict the lake level and the crop price in  $N+1$  time period and based on the predicted lake level in  $N+1$  time period, select the crop which gives predicted price above a

श्रीमती अनिता जाटव  
 प्रधान  
 ग्राम पंचायत मैथना इन्द्रसिंह  
 क्षेत्र पंचायत दौराला (मेरठ)  
 मो. 8923022406, 9917307402



मन्नू सिंह

एडवोकेट  
 सदस्य, ग्राम पंचायत  
 मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

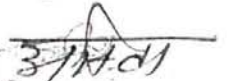
& Social Activist RTI  
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क्रमांक ५०२.....

दिनांक २१/०१/२०१७

ग्राम पंचायत मैथना शोकेत विश्वविद्यालय के डा. इमराम  
 जी का ग्राम मैथना के निवासियों के आपसी मतभेदों  
 को दूर करने के लिए दिए गए कानूनी सुझावों  
 के लिए आभार व्यक्त करती हूँ। उनके द्वारा आभार  
 किया गया कानूनी जन जागरण कार्यक्रम हमारे लिए बहुत  
 लाभ प्रद रहा है। हम इस तरह के कार्यक्रम की अपेक्षा  
 में भी कामना करते हैं।

आभार



(अनिता जाटव)

ग्राम पंचायत मैथना इन्द्रसिंह  
 क्षेत्र पंचायत-दौराला (मेरठ)



Shehla Institute of Engg. & Tech.  
 (Deemed to be University)  
 NH-58, Modipuram, Meerut-250110





# Natural Sciences Trust<sup>Regd.</sup>

H.O. : - 148/4 Jagriti Vihar, Meerut-250005, U.P.

Mobile : - 09411823914, 09358414481

[https://twitter.com/nstmr\\_official](https://twitter.com/nstmr_official) | Facebook : naturalsciencetrustmeerut

Ref. : NST/2017/ 45

Date : 10/02/2017

Dear

Mr. Priyank Bharti

Assistant Professor

Shobhit University, Meerut

In the lieu of our collaboration on "Revival of Indian Culture and Heritage from Hastinapur". We are very happy to announce our 1<sup>st</sup> collaborative activity at Hastinapur from date 17/02/2017-22/02/2017 along with our Resource Person. Looking forward to see you there along with your students.

Thank you

*Pareef*  
With Regards

Chairman  
Natural Science Trust  
Meerut (U.P.) India

Sincerely,

Founder and Chairman

Natural Science Trust

*[Signature]*  
Registrar

Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
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Ref. : NST/207/37

Date : 11/01/2017.....

Dear

Mr. Priyank Bharti

Assistant Professor

Shobhit University, Meerut

We are happy to see your keen interest in our project on revival of historical things from the Hastinapur and willing to take your technical expertise for the same.

Chairman  
Natural Science Trust  
Meerut (U.P.) India

*Parul*

Sincerely,

Founder and Chairman

Natural Science Trust

*Parul*  
Registrar

Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



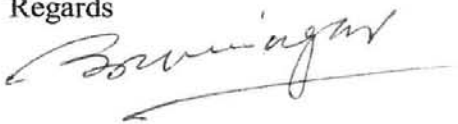
Reference No. PAR/IN/16/82

Date: 9 May 2016


## To Whom it Concern

This is to certify that Dr. Mamta Bansal and Mr. Rajesh Pandey, Shobhit University, Meerut are working on collaborative activity related to the software testing with our technical team. This collaboration is effective from July, 2016 to August, 2017 and will be helpful to enhance the technical skills among the staff and troubleshooting of the softwares too.

Regards



Director

  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to-Be University)  
NH-58, Modipuram, Meerut-250110



≡≡≡ SANRA ≡≡≡  
PUBLIC SCHOOL

(AFFILIATED TO STATE BOARD OF EDUCATION)  
DURGA COLONY CHOPLA, GARHMUKTESHWAR, HAPUR

46/11/16-102

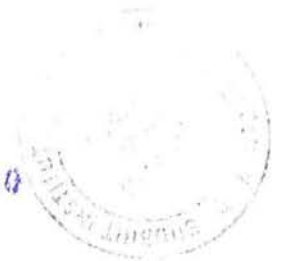
÷ Certificate ÷

25/10/16

This is to certify that Mr. Rajesh Pandey, Assistant profun  
Shobhit University, Meerut associated with Sanra public  
School to provide the Computer Education to  
Our faculty and students for the academic  
year 2016-17. We wish him all the Best for  
future endeavour.

The Principal  
≡≡≡ SANRA ≡≡≡  
PUBLIC SCHOOL  
DURGA COLONY, GARH

  
Registrar  
Shobhit University of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





(Affiliated to U.P. Board Allhabad)

Mob.: 9219987839

# Vijendra Adarsh Bal Inter College

Arjun Nagar, Chamri (Hapur)-245101

Ref No...14...

Dated...19.11.2016

College Code: - 1131

## Letter of Collaboration

The Vijendra Adarsh Bal Inter College and Mr. Rajesh Pandey, Assistant Professor, Shobhit University, Meerut collaboratively organized Cyber Security and Emerging Trends in Social Media Program for our school students on Nov 19, 2016. We place on record the help and efforts in conducting such activities for our Children.

I look forward to this cooperation with you and the Shobhit University.

*Sanjiv K. Sirohi*

**Principal**

*S.K. Sirohi*  
**S.K. SIROHI**

Principal

V.A.B. Inter College

Chamri (Arjun Nagar) Hapur

*[Signature]*  
Registrar

Shobhit  
Institute of Engg. & Tech.  
(Shobhit University)

Plot-68, Meerut-250110





# ASEED Innovative Learning Center (TISS-SVE Hub Partner)

Educational Organization in Greater Noida, Goutam Buddha Nagar

To

The Registrar

Shobhit University, Meerut

ASEED as an institution, has evolved its own identity as an autonomous non-profit body registered under 1860 societies Act, working in the field of development management. ASEED started its mission in early 90s and since then its has been contributing in the area of livelihood creation and sustainable development.

We are proudly accepting you invitation for Cyber Security and Emerging trends in Social Media on November 19<sup>th</sup>, 2016. Mr. Deepak Kumar and Me. Atul Kumar Rana would be the resource person from our organization.

Best wishes for the events !



Regards

Director

ASEED Innovative Learning Centre

Greater Noida, UP

  
Registrar  
Shobhit University of Engg. & Tech.  
(Deemed to be University)  
Nr 658, Modipuram, Meerut-250110





9997539022  
8475905990

# दिशा इण्टर कॉलिज

समौली, दौराला (मेरठ)

माध्यमिक शिक्षा परिषद् इलाहाबाद उ०प्र० द्वारा मान्यता प्राप्त

पत्रांक संख्या ५१५

दिनांक 29/10/17

दिशा इण्टर कॉलिज, समौली दौराला (मेरठ), श्री  
विजय गौड़ेश्वरी जी का हमारे विद्यार्थियों के लिए  
कम्प्यूटर शिक्षा देने आग्रा व्यक्त करता है। हम  
उसकी इस गद्द की गतिष्य में कामना करते हैं।

  
Principal  
Disha Inter College  
Samoli, Daurala (Meerut)

  
Registrar  
Shrabit  
(Director)  
Engg. & Tech.  
University  
NH-58, Meerpuram, Meerut-250110





**Shobhit  
University**

(Shobhit Institute of Engineering & Technology)

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Established u/s 3 of UGC Act, 1956

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Email: mail@shobhituniversity.  
U.: www.shobhituniversity

Ref : SU/RO/ADS/5(FBE-BT)/2013

Dated: October 08, 2013

To,

Ms. Minakshi Choudhary  
E.mail-minakshibiotech1987@gmail.com

**URDC Result – APPROVAL OF SYNOPSIS**

Dear Ms. Minakshi Choudhary,

1. Further to our letter No. SU/RO/ADS/5(FBE-BT)/2012 dated April 13, 2012 SU/RO/ADS/5(FBE-BT)/2013 dated July 15, 2013..
2. URDC, in its meeting held on 17<sup>th</sup> August, 2013 has approved the following :-

Synopsis : Approved.  
Registration : Confirmed.  
Enrolment No. : 2011040017  
Registration No. : SU/BT/Ph.D./PT/11/01  
Date of Registration : 08<sup>th</sup> November, 2011.  
Approved Research Topic : **Identification and Characterization of Gene Differenti  
Expressed under Drought Stress in Pearl Millet.  
(Pennisetum glaucum)**

Supervisor (s) : 1. Dr. Jayanand, Asst. Professor  
Faculty of Biological Engg., Shobhit University, Meer

: 2. Dr. Jasdeep .C .Padaria , Sr. Scientist  
20A Apartment, IARI PUSA, New Delhi-12

Research Centre : Shobhit University, Meerut & IARI Pusa, New Delhi



Registrar  
Shobhit Institute of Engineering & Technology  
NH-58, Modipuram, Meerut-250110

Registrar  
Shobhit University  
(Department of Engineering & Tech  
(Department of Engineering & Tech  
NH-58, Modipuram, Meerut-250110



# Shobhit University

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U.: www.shobhituniversity.ac.in

Ref : SU/RO/ADS/5(FBE-BI)/2013

Dated: October 08, 2013

To,

Ms. Shilpi Singh ✓  
E.mail-shilpi.0805@gmail.com

### URDC Result – APPROVAL OF SYNOPSIS

Dear Ms. Shilpi Singh,

1. Further to our letter No. SU/RO/ADS/5(FBE-BI)/2012 dated April 14, 2012 and SU/RO/ADS/5(FBE-BI)/2013 dated July 15, 2013..
2. URDC, in its meeting held on 17<sup>th</sup> August, 2013 has approved the following :-

Synopsis	: Approved.
Registration	: Confirmed.
Enrolment No.	: 2011010002
Registration No.	: SU/BI/Ph.D./PT/11/02
Date of Registration	: 08 <sup>th</sup> November, 2011.
Approved Research Topic	: Genome wide Association and Analysis of Metal Toxicity on Nitrogen fixing gene family in the Cyano bacterium Anabaena sp PCC7120
Supervisor (s)	1. Prof. (Dr.) P.P. Singh ,Internal Supervisor Director General Shobhit University, Meerut
	2. Prof. (Dr.) J.P. Gaur ,(External Supervisor) CAS in Botany Banaras Hindu University, Varanasi(UP)
	Dr. Vinay Kumar Singh (Co-Supervisor) Centre for Bioinformatics Faculty of Sciences, Banaras Hindu University, Varanasi(UP)
Research Centre	: BHU, Varanasi (UP)



*[Handwritten signature]*

*[Handwritten signature]*

Registrar  
Shobhit University  
Institute of Engg. & Tech  
(Shobhit Institute of Engineering & Technology)  
University)  
NH-58, Modipuram, Meerut-250111

## DESIGN OF UNIFORM LINEAR ARRAY WITH ALTERNATE ELEMENTS FOR LOW CROSS POLARIZATION

**Neha choudhary**  
Shobhit University  
Meerut

**Sudarshan Kumar**  
Assistant professor, ECE  
HMT Engineering College  
Meerut

**Aniket kumar**  
Assistant professor, VLSI  
Shobhit University  
Meerut

**Abstract:** *This paper describe the design of corner feed microstrip antenna array. The microstrip array antenna is simulated using the IE3D electromagnetic simulator. The microstrip array antenna is designed on the glass epoxy FR4 dielectric substrate having the thickness of 1.6 mm. The designed antenna array resonates at a frequency of 5 GHz. The different parameters of antenna array such as gain return loss and radiation pattern is investigated. The elements used in array square patch antenna.*

**Index Terms:** *microstrip, IE3D, array*

### I.INTRODUCTION

Microstrip antennas are used not only as single elements but are very popular in arrays. Arrays are very versatile and are used among other things to synthesize a required

pattern that can't be achieved with single element. There are usually two types of arrays in microstrip structures, the corporate fed and the series fed patch antenna array both of which are inherently narrow in bandwidth. Their advantages, as they are light weight, low profile and a compact and minimum line length feed network are appreciated for many years in various applications. Despite increased popularity, efficient design and fabrication of planar array antennas with low side-lobe levels and low cross polarization still remains a challenging task. The discontinuities, bends, power dividers, and other components in the corporate fed array cause spurious radiation that limits the cross polarization levels. The cross polarization levels can be reduced in a simple and efficient way in which each

## REVITALISING THE MANAGEMENT EDUCATION IN INDIA

Neha Yajurvedi\* and Vivek Sharma\*\*

With the emergence of the 21st century, a new era of business has set in in India. Liberalisation and Globalisation of Indian economy have provided challenges and opportunities to our new business and which has necessitated re-engineering of present management education system. The present paper focuses upon existing problems and challenges which are needed to be addressed and seeks to provide the solution thereabout. At present, there exists three-tier management education administration i.e., Indian Institutes of Management (IIMs), Edupreneurs and prestigious industry-run management institutes and Management departments of Universities. Besides this, private B-Schools and non-statutory business training institutions also impart business education leading to MBA degree or PGDM diploma. Unfortunately, most of the students do not get the job they aspire for. In most of the cases even the best student does not cater to the needs of the market because in the formal education system the gap between what is taught and what is demanded by the market is evident. Hence, an urgent need to re-think and re-design the management courses has arisen. The present paper discusses the rationale of re-engineering of the whole management education system i.e. Admission, Instruction, Infrastructure, Regulation, Examination, Certification, Training and Placement.

### INTRODUCTION

Education is the most dynamic science that should change with the passage of time. It is the main tool of human development which can be termed as key to growth and prosperity. Management education is all about managing the business of life and life of business and that's why the variables of management education keep on changing. The challenges of 21st century have necessitated the change in management education system in the country. The 21st century promises to herald a different environment for human development in all walks of life, including education. It is going to be knowledge-driven century resulting a need of greater reform in all education related activities like teaching, learning, evaluating, curriculum revision, administration processes etc.

#### Historical Perspective of Management Education in India

Management education in India formally began in 1953 at the Indian Institute of Social Welfare and Business Management (IISWBM) –the first B-School established by Government of West Bengal and Kolkata University. However, a few institutions like Tata Institute of Social Sciences (1936) and Xavier Labour Research Institute (1949) had already started training programmes for managers in personnel function well before the formal launch of

first MBA programme at IISWBM. IISWBM experiment of offering two-year, full-time MBA programme was followed by Delhi University (1955), Madras University (1955), Bombay University (1955) and Andhra University (1957). A few other institutions like Administrative Staff College of India Hyderabad (1956), All India Management Association (1957), and National Productivity Council (1958) were established to promote excellence in management practices, research and education.

The Government of India launched Indian Institutes of Management (IIMs) as centres of excellence in management education in early 1960s. The first Indian Institute of Management was set up in Kolkata in 1961 and second in Ahmedabad in 1962. Elite club of IIMs added new members in 1973 (Bangalore), 1984 (Lucknow) and 1997-98 (Kozhikode and Indore). Currently there are 12 IIMs in the country. Over the years, IIMs have evolved as great brand in management education across the globe and an enviable benchmark for other institutions in terms of quality of faculty, students, curriculum and placement. Several studies highlight the challenges and threats focusing to seek the solution thereabout.

Jagadeesh (2000) examined the issue of quality with the backdrop of problems, constraints and conflicts.

\* Assistant Professor, Faculty of Management Studies, Shobhit University, Meerut.

\*\* Director, Mascot Institute of Management, Bareilly.



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Faculty of Engg. & Tech  
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## Original Research Article

## Effects of shilajit on the bone tissue of alcohol administered rats

Payal Bhardwaj,<sup>1\*</sup> Mehak Goel<sup>1</sup>, Durg Vijay Rai,<sup>1,2</sup><sup>1</sup> Department of Biophysics, Panjab University, Chandigarh, India<sup>2</sup> Faculty of Biomedical Engineering, Shobhit University, Meerut, India

## ARTICLE INFO:

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## Keywords:

Shilajit, bone, femur, tibia, breaking strength, alcohol

## ABSTRACT

**Purpose:** The purpose of the current study was to examine the effect of Shilajit; a herbomineral, supplementation on the mechanical strength of alcohol treated rat bone. **Methods:** Experimental animals each were assigned to six groups: group A (control): control rats were given water orally for a period of ten weeks; group B (treated): Animals were given processed shilajit (PS; 100mg/kg/day); group C (treated): Animals were given processed shilajit (PS; 200mg/kg/day); group D: animals were given 30% alcohol; group E: animals were given 30% alcohol and shilajit (100mg/kg/day) orally; group F: animals were given 30% alcohol and shilajit (200mg/kg/day) orally for ten weeks. Bone tissue mechanical strength along with bone weight, liver antioxidative enzymes and alkaline phosphatase (ALP) were assessed for all the treatment groups. **Results:** Mechanical strength of the bone tissue (both femur as well as tibia) was found to be significantly enhanced upon shilajit supplementation to alcohol treated group. Also, the activities of anti oxidant enzymes and alkaline phosphatase in the liver of alcohol administered groups were restored upon shilajit administration. **Conclusion:** These findings suggest that shilajit is very efficacious and competent in the maintenance of bone health

## Introduction

Abuse of alcohol is known to disturb the bone metabolism and causes osteoporosis. Chronic ethanol abuse is correlated with osteoporosis condition, decreased bone mass, and increased risk of fractures[1]. This is assumed to be the direct effect of ethanol on the bone tissue or indirect effects through altering vitamin D3 and calcium regulating hormones. Chronic alcohol consumption can interfere with bone growth and remodeling process, resulting in decreased bone mineral density and increased risk of fractures. Bone strength is affected by number of factors like hormonal, nutritional, environmental and lifestyle factors, including tobacco and alcohol consumption[2].

Bone is a major storage depot for number of minerals. Variety of nutrients also plays a major role in the bone formation and resorption mechanism. The absorption of calcium takes place in the small intestine. An adequate amount of calcium in the bloodstream is essential for the proper functioning of muscles and nervous tissue. The biological system has the mechanism to monitor the calcium concentration and also respond through the action of vitamins, hormones and growth factors, for the regulation of distribution of calcium. Alcohol consumption may disrupt this fine balance by modulating the hormones that

regulate calcium metabolism as well as the hormones that influence calcium metabolism indirectly [3]. Numerous studies have shown relationship between the alcohol consumption and bone deterioration[4]. However, a few studies indicate that moderate alcohol consumption may help reduce osteoporosis and decrease fracture risk in postmenopausal women [5]. For example, in study of more than 14,000 subjects, reported that women age 65 and older who consume alcohol on more than 5 days a week had a greater risk of skeletal deformity in comparison to those who consumed alcohol only once in a week. Studies also investigated the effect of moderate alcohol consumption on rats following surgical ovariectomy to mimic the menopausal condition. Chronic alcohol consumption exerts harmful effects on the bone growth metabolism and its maintenance at all the age groups. The action of alcohol on the growing bone tissue is especially deleterious, because at this time point, bone tissue is in the growing stage and any interferences in the cellular mechanism may hampers the overall growth of the bone. Shilajit, an ancient traditional medicine has been recognized of having a number of pharmacological activities and has been used as a rejuvenator and for treating a number of pathological conditions [6]. Modern scientific research has systematically

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## Zinc inhibits ovariectomy induced microarchitectural changes in the bone tissue

Payal Bhardwaj<sup>a,\*</sup>, Durg Vijay Rai<sup>a,b</sup>, Mohan Lal Garg<sup>a</sup>

<sup>a</sup> Department of Biophysics, Panjab University, Chandigarh, India

<sup>b</sup> Faculty of Biomedical Engineering, Shobhit University, Meerut, India

### ARTICLE INFO

#### Article history:

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#### Keywords:

Zinc

Bone microarchitecture

Ovariectomy

Trabecular bone

Electron microscopy

Calcium

### ABSTRACT

**Purpose:** The purpose of the current study was to examine the effect of zinc supplementation as a nutritional supplement in case of osteopenia induced microarchitectural changes in rat model.

**Methods:** Forty eight animals in two batches of twenty four animals each were assigned to four groups: Control, Zinc, Ovariectomized (OVX) and OVX + Zinc. The treatment period was continued for eight weeks. Histoarchitecture analysis was performed on both the bones i.e. femur and tibia using light as well as electron microscopy. Also, the bone calcium content was estimated using atomic absorption spectrophotometer.

**Results:** The body weight of the animals in the OVX group was significantly higher in comparison to the control animals. The body weight was found to increase significantly upon zinc supplementation to OVX animals till the 4th week and then was almost comparable till the termination of treatment period. Calcium content in both femur and tibia were found to be significantly reduced in the ovariectomized group. The connectivity of trabeculae was lost following ovariectomy. Zinc administration restored bone calcium content as well bone tissue morphology including trabecular thickness.

**Conclusion:** These findings suggest that changes in the trabecular bone attributed to estrogen deficiency are arrested by zinc supplementation.

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### 1. Introduction

Osteoporosis is a skeletal disease characterised by low bone mass and structural weakening of the bone material that leads to reduced bone strength [1]. Postmenopausal osteoporosis is by far the commonest form of age-related bone loss. In women, bone loss is exacerbated after menopause due to a decrease in estrogen production. It is estimated that 10 million individuals have osteoporosis while another 34 million suffer from low bone density. Upon survey, it has been found that 61 million individuals will develop osteoporosis or low bone density by 2020 [2]. Beyond medical costs, there is the physical burden of living with osteoporosis and its impact on the daily life style, including restrictions in daily activities, loss of confidence (due to fear of falling and fracture) and loss of independence [3].

The development of osteoporosis is thought to be primarily

related to ageing, genetic factors. Some modifiable factors, such as smoking, excess alcohol consumption, life style and deficiency or excess of some of the components of diet, are also associated with osteoporosis [4]. Therapies for osteoporosis fall into two categories: antiresorptive drugs, which slow bone resorption, and anabolic drugs, which stimulate bone formation. However, the adverse effects of these medications include malignant tumour formation with hormone therapy and gastrointestinal tolerance problems with bisphosphonates, which may exclude their long-term use [5,6]. Thus, there is a need for some alternative that can improve bone health without inducing adverse effects. Growing evidence of the benefits of natural foods for bone health presents alternatives for the prevention or treatment of osteoporosis [7,8]. Trace elements play a major role in the growth and development of skeleton, of which zinc is of particular interest to us.

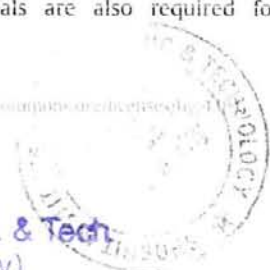
The fact that the organic component in the bone is mainly composed of protein and that most of the bone mineral portion is calcium implies that the essential nutrients required for bone health are protein and calcium [9]. In addition this, certain minerals, vitamins and trace metals are also required for the

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Register

Shobhit University of Engg. & Tech.  
(Deemed to be University)  
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# Taj Eduglobe Ltd.

To,  
Dr. Poonam Devdutt  
Director  
Department of Management  
Shobhit University, Meerut

Subject : Acceptance to event on November 19, 2016

Dear Dr. Poonam Devdutt

We are accepting your request regarding the special event organizing for School Students on Mind full to Mindful: An Emotional Stress Management Exercise on 19<sup>th</sup> November, 2016. Dr. Vivek Mittal from Taj Eduglobe Ltd. would be the resource person from us.

Thanking you

With Regards

Your Sincerely

Director

Taj Eduglobe Ltd.

Director of Engg. & Tech

(Department of University)

NH-58, Modipuram, Meerut-250110





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Ref: SU/RO/ADS/5(MB)/2020

Dated: 29 June, 2020

To,

**The Principal**  
**Lala Lajpat Rai memorial Medical College**  
**Meerut**

**SUB: 'NO OBJECTION CERTIFICATE'**

This is to certify that **Mr. Rajesh Kumar Mishra S/O Sh. Om Prakash Mishra**, is a bonafide Research Scholar of Shobhit Institute of Engg. & Technology (A NAAC Accredited Deemed to be University) established vide Govt of India, Min of Human Resources Development Notification F-9-37/2004-U-3(A) under section 3 of the University Grants Commission Act 1956. The details of his registration are as under :-

Synopsis	: Approved
Registration	: Confirmed
Enrolment No.	: 2016040028
Registration No.	: SU/Ph.D/Microbiology./P.T.16/01
Date of Registration	: <b>28<sup>th</sup> August, 2016</b>
Subject	: <b>Microbiology</b>
Approved Research Topic	: <b>Studies on Cytokines in the Pathogenesis of HIV and HIV Associated Tuberculosis</b>
Supervisor (s)	: <b>1. Dr. Maya Datt Joshi</b> Assoc. Professor, Coordinator, Dept. of BT) <b>Shobhit Deemed University, Meerut-10 (UP)</b>
	: <b>2. Dr Tung Vir Singh Arya</b> Nodal Officer, ART Centre, LLRM Medical College, Meerut

It is also certified that this University has "No Objection" to obtain Ethical Clearance to interact with the patients in the hospital to carry out the research work.



*Ganesh*

**Dr. Ganesh Bhardwaj**  
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Gene

Volume 574, Issue 2, 15 December 2015, Pages 210-216

Research paper

# Identification of microRNAs and their targets in Finger millet by high throughput sequencing

S. Usha <sup>a, c</sup>, M.N. Jyothi <sup>a, c</sup>, N. Sharadamma <sup>b</sup>, Rekha Dixit <sup>c</sup>, V.R. Devaraj <sup>d</sup>, R. Nagesh babu <sup>a, c</sup>

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Received 12 May 2015, Revised 3 August 2015, Accepted 5 August 2015, Available online 7 August 2015.

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## Abstract

Professor
   
 Shri. Jyothi (
   
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 NH-58, Meerapuram, Meerut-250110

FEEDBACK

# A Robust Page Ranking Method based on Link-Visits of Web Page

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**Abstract**— Search engines generally return a large number of pages in response to user queries. To assist the users to navigate in the result list, ranking methods are applied on the search results. Web search engines encounter many new challenges with the increased amount of information on the web. Web documents have been a main resource for various purposes, and people rely on search engines to retrieve the desired documents. This paper proposes a dynamic and efficient Page rank algorithm for search engines to return quality results by scoring the relevance of web documents. The modified Page rank algorithm increases the degree of relevance than the original one, and decreases the time and efforts to find the desired documents from the set of results returned by search engine. Here, a page ranking mechanism called PRLV (Page Ranking based on Link Visits) is being devised for search engines, which works on the basic ranking algorithm of Google i.e. Page Rank and takes number of visits of inbound links of Web pages into account. To make rank value of pages dynamic rather than static, a new concept called PRLV is proposed and described, which takes into account users' behaviour i.e. Link Visit Information, and calculates importance of pages.

**Key Word**- Search Engine, Page Rank Algorithm, PRLV.

## I. INTRODUCTION

Majority of the users fulfill their information needs by employing one of the existing search engines. Many times the search engines seem to be really useful but many other times they do not find what users are searching for. Even, if they find something interesting they have to pass through a slow and time costly process. This process is the filtering and selection of the pages returned by the

search engine as a result of users query in order to find those pages that are really interesting to them. This is a slow process and many times, it requires several iterations where users refine their query and submit it again to the search engine and again the filtering process to check all the results returned starts.

As it is known that the size of the whole WWW is very large. In July 2000, it was estimated to contain about 2.1 billion vertices (pages) and 15 billion edges (links between pages) [15, 18]. Moreover, about 7.3 millions pages are added every day, and many others are modified or removed [20]. In other sources [19], [21] it has been found that: the world produces between 1 and 2 Exabyte's of unique information per year, which is roughly 227 megabytes for every man, woman, and child on earth. An Exabyte is a billion gigabytes, or 10<sup>18</sup> bytes. Printed documents of all kinds comprise only .03% of the total..

A search engine receives user query, processes the query, and searches into its index for relevant documents i.e. the documents that are likely related to query and supposed to be interesting then, search engine ranks the documents found relevant and it shows them as results. This process can be divided in the following tasks:

- **Crawling:** A crawler is in charge of visiting as many pages it can and retrieve the information needed from them. The idea is that this information is stored for the use by the search engine afterwards.
- **Indexing:** The information provided by a crawler has to be stored in order to be accessed by the search engine. As the user will be in front of his computer waiting for the answer of the

## Original Article

# Dosimetric evaluation of tandem-based cervical high-dose-rate brachytherapy treatment planning using American Brachytherapy Society 2011 recommendations

Manish K. Goyal<sup>1,2</sup>, T. S. Kehwar<sup>3</sup>, Jayanand Manjhi<sup>2</sup>, Jerry L. Barker<sup>1</sup>, Bret H. Heintz<sup>1</sup>, Kathleen L. Shide<sup>1</sup>, D. V. Rai<sup>2</sup>

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(Received 24 December 2015; revised 29 February 2016; accepted 2 March 2016; first published online 15 April 2016)

## Abstract

**Purpose:** This study evaluated dosimetric parameters for cervical high-dose-rate (HDR) brachytherapy treatment using varying dose prescription methods.

**Methods:** This study includes 125 tandem-based cervical HDR brachytherapy treatment plans of 25 patients who received HDR brachytherapy. Delineation of high-risk clinical target volumes (HR-CTVs) and organ at risk were done on original computed tomographic images. The dose prescription point was defined as per International Commission in Radiation Units and Measurements Report Number 38 (ICRU-38), also redefined using American Brachytherapy Society (ABS) 2011 criteria. The coverage index ( $V_{100}$ ) for each HR-CTV was calculated using dose volume histogram parameters. A plot between HR-CTV and  $V_{100}$  was plotted using the best-fit linear regression line (least-square fit analysis).

**Results:** Mean prescribed dose to ICRU-38 Point A was  $590.47 \pm 28.65$  cGy, and to ABS Point A was  $593.35 \pm 30.42$  cGy. There was no statistically significant difference between planned ICRU-38 and calculated ABS Point A doses ( $p = 0.23$ ). The plot between HR-CTV and  $V_{100}$  is well defined by the best-fit linear regression line with a correlation coefficient of 0.9519.

**Conclusion:** For cervical HDR brachytherapy, dose prescription to an arbitrarily defined point (e.g., Point A) does not provide consistent coverage of HR-CTV. The difference in coverage between two dose prescription approaches increases with increasing CTV. Our ongoing work evaluates the dosimetric consequences of volumetric dose prescription approaches for these patients.

**Keywords:** American Brachytherapy Society; cervical cancer; high-dose-rate brachytherapy; intracavitary brachytherapy; Point A

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## To Implement the Session Hijacking from Attacker End

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**Publishing Date: September 14, 2016**

### Abstract

Hijacking of information is the prime concern in present scenario, but very few people are aware of these concepts. So lot of work the researchers are doing on security purposes for a network. In this paper, a session hijacking towards attacker end is discussed. It is simulated how an attack is initiated and attacker steal the information and also the different steps regarding hijacking of data are explained in detail.

**Keywords:** Session Hijacking, IN-Network Attack, OUT-Network Attack.

### I. Introduction

Now a day there is huge demand of Internet, people are habitual of using it, from business to shopping and from banking to education Internet has become integral part of every human being, after seeing the craziness of Internet among common person's life, companies are also spreading their business using Internet, they are offering their products services via websites over Internet, as the demand grows larger and larger, security threat also increased, it often seen that people are not much aware about security aspect of their personal information, also the services of vendors are quite better they are using modern tools and technique, and applying the concept of "services" e.g. SOA etc. this topic is chosen by me to study and ongoing current research work on security attack on web application, I decided to perform Detection of Session Hijacking attack on web application, which is most dangerous security threat over web.

### II. Performing Session Hijacking-Attacker End

In this section the attack is demonstrated from the attacker end, two different approaches are taken:

- IN-Network Attack
- OUT-Network Attack

In the IN-network attack the session hijacking attack is attempted from within a network and in the OUT-Network attack the session is hijacked from outside the network.

#### IN-Network attack

The session hijacking attempt was conducted and performed from the Attacker End on a Linux-BackTrack operating system. The following tools were used to perform the attack:

- ✓ Ferret and Hamster
- ✓ Wireshark
- ✓ Proxy settings to access the Hamster on Firefox
- ✓ Ferret and Hamster:

A tool installed in BackTrack to capture a session and replay it to get the contents of the user request from the server (Robert, 2009).

- Wireshark: Is a widely used sniffer which analyses the different network attributes like protocols, port no, packets, etc. (WireShark, 2000). Also this allows the attacker to put the

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B-384

# Design of octagon shape microstrip patch antenna for multiband application

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Sudarshan Kumar  
ECE Department,  
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Niraj Singhal  
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**Abstract**—In this work three rectangular microstrip patch antenna is presented on glass epoxy FR4 substrate having thickness of 1.6 mm. In these three antennas one is simple rectangular patch antenna and the other two are slotted patch design in the shape of octagon. Probe feed technique is used in all the designs. The multiband behaviour is analyzed using two slotted forms of the designed patch antennas. The proposed antenna covers multiband frequencies in the range from 1.6 to 5.9 GHz. It is simulated using IE3D simulator. Electrical parameters of the antenna like return loss, radiation pattern, directivity & VSWR etc. are investigated. The relationship between geometric sizes of the patch and the electrical parameter specifications of the antenna is researched.

**Index Terms:** Multiband IE3D, Octagon.


## I. INTRODUCTION

Microstrip antenna is attractive elements at microwave frequencies due to their inherent advantages, such as conformability and simplicity of design [1]. A microstrip patch antenna has a conducting patch that made of metals such as copper or gold, printed on a grounded dielectric substrate. These antennas are low profile, light weight, easy fabrication, and nonplanar surfaces compatible with MMIC design. A conventional microstrip patch antenna have the disadvantage of narrow bandwidth this poses a challenging task for the microstrip antenna designer to meet the broadband technique [2,3,4]. A big number of microstrip patches have been developed that is used in wireless application. Several shapes are square, rectangle, ring, ellipse, pentagon, kite shape are introduced. In contrast to patch configuration the antenna with slot gives

enhanced characteristics including wider band width and low conductor loss and better isolation [3]. In modern wireless communication system and increasing other wireless applications, wider bandwidth, is required, traditionally each antenna operates at a single frequency band, where a different antenna is needed for different application. This will cause a limited space and place problem. In order to overcome this problem, multiband antenna can be used where a single antenna can operate at many frequency bands. Recently many new technologies have been proposed for multiband antenna design [4-8]. The regular microstrip antennas configurations, such as rectangular and circular patches have been modified to rectangular ring and circular ring by cutting slots to enhance the BW. The larger BW is because of a reduction in the quality factor Q of the patch resonator, which is due to less energy stored beneath the patch and higher radiation [9- 13]. In this paper, octagonal slotted microstrip patch antennas are designed in calculating all its geometric characteristics easily make this shape usage advantageous in microstrip patch antenna design. Although many slotted patch antenna designs are available, but this design is different in shape. Performance simulations of antenna are performed on IE3D software, which is based on the method of moments [14].

## II. ANTENNA GEOMETRY

The basic design of microstrip patch antennas is given through the rectangular microstrip patch and runs through two slotted microstrip antennas to generate multiband characteristics. The initial dimension of the patch is taken at 2.4 GHz by taking

  
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**CERTIFICATE**


OF PARTICIPATION

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THE "TRAINING ON THE MEDICAL EQUIPMENTS"  
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AT SHOBHIT UNIVERSITY CAMPUS

  
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Ref : SU/RO/ADS/5(MB)/2018  
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Dated: 25<sup>th</sup> July, 2018

**URDC Result – Confirmation of Ph.D. Registration**

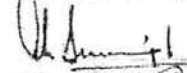
**Dear Student,**

- Further to our letter No. SU/RO/ADS/5(Microbiology)/2018 dated 21 July, 2018 regarding holding of RDC on 22<sup>nd</sup> July, 2018.
- URDC, in its meeting held on 22<sup>nd</sup> July, 2018 has approved the following :-

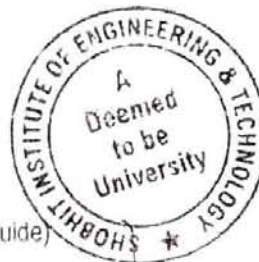
Synopsis	: Approved.
Registration	: Confirmed
Enrolment No	: 232018040027
Registration No	: SU/PH.D/P.T./MB/18/2302
Date of Registration	: 01 <sup>st</sup> August, 2017
Subject	: Microbiology
Approved Research Topic	: Effective Novel Drug Development Against Trypanosoma CRUZI
Supervisor(s)	: 1. Prof. (Dr.) Amar P. Garg, Vice Chancellor(Prime Guide) Shobhit Institute of Engg. & Tech.(A Deemed to-be University) 2. Prof. (Dr.) Fernando Villalta, Chairman (Co- Guide) Dept. of Microbiology, Immunology & Physiology Meharry Medical College, Nashville, Tennessee (USA)
School /Department	: School of Biological Engg. & Sciences

- You are advised to carry out your research work and forward six monthly progress report in accordance with the Ph.D. Ordinance-2016 for our further necessary action. Proforma of progress report is enclosed herewith.


Yours Sincerely,

  
**Vijay K. Singh**  
Registrar  
Copy to :-

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Shobhit Institute of Engg. & Tech.  
(A Deemed to-be University), Meerut
- Prof. (Dr.) Fernando Villalta, Chairman (Co- Guide)  
Dept. of Microbiology, Immunology & Physiology  
Meharry Medical College, Nashville, Tennessee (USA)
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- for information and necessary action, please.

  
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# Implementation of Various Speech Enhancement Algorithms

Aniket Kumar<sup>1</sup>, Satvendra Srivastava<sup>2</sup> and Aditya Pundhir<sup>3</sup>  
<sup>1</sup>Department of Electronic Engineering, Shri Balika University Meerut  
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**Abstract** Noise removal in speech signals is a major challenge in speech improvement, recognition & communication applications, etc. It has attracted researcher's attention over past few decades. Extensively used method is adaptive filtering process, which achieves clean audio approximation by passing the noise observation through an adaptive filtering. In more or less real signal applications it difficult to implement. A process for reducing noise from audio or speech signals using various adaptive filtering algorithm such as LMS, BLMS, NLMS, VLMS is proposed in manuscript. In time domain the signal is filtered and the filter coefficients are calculated by different adaptive algorithm.

**Keywords:** Signal Processing, Filter Coefficients, LMS, BLMS, NLMS, VLMS

## I. INTRODUCTION

In communication, human speech acts a key element. The physical characteristics of speech signals doesn't determines its quality, its communication situation, information competence, means to obtain the information from perspective, imitate and gesturing. There is different between real & recorded speech, as in real speech a person is able to distinguish between speech & nearby noise and focus on speech only, hence human is able to filter out desired information out of verity of nearby noise. Listening recorded chat is a different situation. The apparatus used for recording doesn't focus on certain audio signal as in case of human, impartially complete thing that happens in the audio scale is recorded. As a effect all recorded sounds is received as a "flat picture" this makes the record meaningless.

The variation of signal and noise are generally anonymous & hence a digital filter having 'constant weights' is hardly of any use. In such situations adaptive filter is advantageous. The filters that are capable in adapting their weights as per the abnormality in individuality of input signal & noise to attain a noise free signal known as adaptive filter [4].

## II. NOISE MANAGEMENT

An active or passive means of sinking sound emissions, repeatedly for private ease, ecological considerations or legal compliance is known as Noise management. Sound reduction using a power resource is active noise management. Sound reduction by noise-isolating materials such as sound-absorbing tiles, insulation or a muffler rather than a power source is known as passive noise management.

In the manuscript, we suggest a noise reduction method based on adaptive filter for audio signals. Desired audio signal is restored by FIR filter, whose coefficients are expected by reducing the mean square error (MSE) among the noisy & fresh signals.

## III. ADAPTIVE FILTERS

Adaptive filter is such a filter which tries to adjust its parameters for meeting some requirements, depending upon the state of its surroundings. Adaptive filter has self adjusting and tracking capabilities.

Implementation can be done either by finite or infinite impulse response (FIR or IIR). IIR filters being recursive becomes unstable as their pole may get shifted out of the unite circle in the Z-plane. Also IIR mean square error (a performance parameter) has many local minima points, results in the convergence of filter to one of the local minima points and not to the desired global minima point.

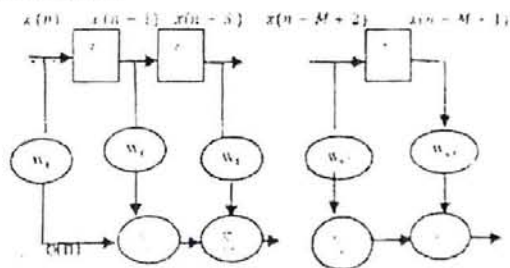


Fig. 1. Block Diagram of Linear Transversal Filter

Different types of filter structures are available such as Lattice predictor, Transversal filter structure, and Systolic array. Out of these, transversal filter structure is simplest and most commonly used. A basic block drawing of linear transversal filter is as shown in Fig. 1.

$$y[n] = w_0 \cdot x[n] + \dots + w_{M-1} \cdot x[n-M+1] \quad (1)$$

Structure of adaptive transversal filter shown in Fig. 2 is an extension of linear transversal filter. The extended part includes algorithm for adapting the weight  $w_n$  ( $n = 0$  to  $n-1$ ) of the linear transversal filter. The weight  $w_n$  is updated on each iteration to reach optimum weight so that MSE is minimized. The aim of adaptive filter is to approximate own output  $o[n]$  to the desired output  $d[n]$  and at every iteration the error signal  $e[n]$  is feedback into the transversal filter,  $e[n] = d[n] - o[n]$  & filter weights are adapted consequently.

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10.4103/PJIAP.PJIAP\_37\_17

# A prospective study on the effects of therapeutic ultrasound in cancer using an animal model

Chinthalapalli Siva Ram, Durg Vijay Rai<sup>1</sup>, M. Jayanand<sup>2</sup>, Rajendra Kumar Saxena<sup>3</sup>, Maya Dutt Joshi<sup>4</sup>, Sonali Gangwar<sup>4</sup>

### Abstract:

**CONTEXT:** Ultrasound is emerging as a novel treatment agent for cancer. The advantage of using ultrasound is that it is not an electromagnetic radiation; hence, it does not produce the undesired harmful effects encountered through the repeated use of electromagnetic radiation.

**AIMS:** The present study was aimed to evaluate the therapeutic potential of ultrasound in 7,12-dimethyl benz (a) anthracene (DMBA)-induced sarcoma in rats.

**SETTINGS AND DESIGN:** Forty female Wistar rats were used in the experimental study. They were allocated into four groups. DMBA was used to induce sarcoma in 20 rats. Therapeutic ultrasound was applied at 2.5 W/cm<sup>2</sup> for 10 min (continuous mode) to 10 sarcoma tumor-bearing rats and normal 10 rats.

**SUBJECTS AND METHODS:** DMBA was used to induce sarcoma in rats. Body weight, tumor weight, and serum enzymes were determined following treatment with therapeutic ultrasound (Chattanooga Group, Hixson, TN USA (Model: Intellect® Mobile Combo Model No. 2778).

**STATISTICAL ANALYSIS USED:** Statistical analysis was performed using SPSS (SPSS Inc., Chicago, IL, USA) statistical package. The results were expressed as mean, standard error of mean (SEM). The one-way analysis of variance followed by *post hoc* test least significant difference was used to correlate the difference between the variables. Values were considered statistically significant if  $P < 0.05$ .

**RESULTS:** There were significant increases on the body weight and tumor weight of treated rats. The increased activities of serum pathophysiological enzymes aspartate aminotransferase, alanine aminotransferase, alkaline phosphatase, ACP, and lactate dehydrogenase of ultrasound-treated rats were significantly ( $P < 0.05$ ) higher than the control levels indicating loss of redox homeostasis. The histopathological analysis of sarcoma tissues showed extensive hemorrhage and necrosis indicating the antitumor nature of ultrasound.

**CONCLUSIONS:** The results of the present study indicate that ultrasound significantly suppresses DMBA-induced sarcoma in rats.

### Keywords:

Cancer, sarcoma, therapeutic, ultrasound

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New Delhi, India  
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Biotechnology, J. J. S  
Institute of Education,  
Delhi, India  
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Biotechnology, J. J. S  
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Delhi, India

### Address for correspondence:

Dr. Chinthalapalli Siva Ram,  
J. J. S Institute of Education and Allied  
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Road, Muradnagar  
Ghaziabad-201 270,  
Uttar Pradesh, India  
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Submission: 11-12-2017  
Accepted: 15-12-2017

## Introduction

Ultrasound cavitation leads to the formation of reactive oxygen species (ROS) and its consequences are of primary interest.<sup>[1]</sup> Recent clinical studies have demonstrated that cancer cells can be targeted and destroyed by a single blast of ultrasound.<sup>[2]</sup> However, the extent to

which ultrasound affects cancerous tissue is an area of ongoing research and needs to be explored further.<sup>[3]</sup> The biophysical effects of therapeutic ultrasound have been examined through *in vitro* studies. Extrapolation of these results to humans is, therefore, conjectural.<sup>[4]</sup> Our study aimed to study the effect of ultrasound therapy

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Handwritten signatures and stamps at the bottom of the page, including a circular stamp with text and a signature.



A STUDY ON THERAPEUTIC EFFECTS OF ULTRASOUND FOR THE  
TREATMENT OF SARCOMA CANCER. E-456

C. S. Ram<sup>1</sup>, R. K. Saxena<sup>2</sup>, Jayanand<sup>3</sup>, Sonali Gangwar<sup>4</sup>, Maya Datt Joshi<sup>5</sup> and D.V. Rai<sup>\*6</sup>

<sup>1</sup>Professor- I.T.S Paramedical College, Murad Nagar, Ghaziabad.

<sup>2</sup>Professor, Center for Biomedical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi.

<sup>3</sup>Professor, Noida International University, Noida UP.

<sup>4</sup>Assistant Professor, Center for Biological Engineering, Shobhit University, Gangoh, Saharanpur, U.P. India.

<sup>5</sup>Assoc. Prof -Centre for Biomedical Engineering, Shobhit University, Modipuram, Meerut.

<sup>6</sup>Professor, Center for Biological Engineering, Shobhit University, Gangoh, Saharanpur.

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12 November 2017.

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Accepted on 24 Dec. 2017

DOI: 10.21859/wjpr.20181-10595

**\*Corresponding Author**

**D. V. Rai**

Professor, Centre for  
Biological Engineering,  
Shobhit University, Gangoh.

**ABSTRACT**

**Context:** Ultrasound is emerging as a novel treatment agent for cancer. The advantage of using ultrasound is that it is not an electromagnetic radiation; hence it does not produce the undesired harmful effects encountered through the repeated use of electromagnetic radiation. **Aims:** The present study was aimed to evaluate the therapeutic potential of ultrasound in 7, 12-dimethyl benz(a)anthracene (DMBA) induced sarcoma in rats. **Settings and Design:** Forty female wistar rats were used in the experimental study. They were allocated in four groups. 7, 12-dimethyl benz(a)anthracene (DMBA) was used to induce

sarcoma in 20 rats. Therapeutic ultrasound was applied at 2.6W/cm<sup>2</sup> for 10 min (continuous mode) to 10 sarcoma tumor bearing rats and normal 10 rats. **Materials and Methods:** 7, 12-dimethyl benz(a)anthracene (DMBA) was used to induced sarcoma in rats. Body weight, Tumor weight, Serum enzymes were determined following treatment with therapeutic ultrasound (Chattanooga Corp Inc. USA). **Statistical analysis used:** Statistical analysis was performed using SPSS (SPSS Inc., Chicago) statistical package. The results were expressed as Mean, Standard Error Mean (SEM). One-way analysis of variance (ANOVA) followed by post hoc test least significant difference (LSD) was used to correlate the difference between

Reg. No. - MEE06995

Juhi Tyagi  
(President)



# YATHARTH KE SARTHI

## Social Welfare Society

Ref. No. YS/SWS/04/18/29

Date 18/01/2018

To,

Dr. Anita Rathore

Assistant Professor

Shobhit University, Meerut

Dear Ma'am,

We are the social welfare society named as **Yatharth Ke Sarthi** located at Nauchandi Ground, Meerut. We have heard a lot about you and your expertise in Yoga and Naturopathy. We would like to request you to organize one day Yoga based activities for our students.

We efforts would be highly appreciated.

Thanking You

Regards

Co-chairperson

Yatharth Ke Sarthi

Nauchandi Ground, Meerut



Shobhit

Meerut

250011

of Engg. & Tech 9720262626, 7017658459

yatharthkesarthi@gmail.com

www.yatharthkesarthi-250011



132, Ram Bagh Colony Nauchandi Ground, Meerut



Dr. Juhi Tyagi  
President , Yatharth Ke Sarthi  
Nauchandi Ground,-Meerut

Dear Ma'am,

I am very delighted to receive invitation from your side, The university is planning to organize an event "Yoga se Hoga (Yoga Practice)" on date 08/02/2018. We invite you and your students to the university premises for the same.

Thanking you

Regards

Dr. Anita Rathore  
Assistant Professor  
Shobhit University, Meerut



Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58 Modipuram, Meerut-250115

# GYANSTHALI PUBLIC SCHOOL

(SENIOR SECONDARY)

Affiliated to C.B.S.E., New Delhi, (Aff. No. 2130790)



To,  
Dr. Anita Rathore & Dr. Anil Sharma  
Professor's, Shobhit University,  
Meerut, U.P.

Subject: Regarding Collaborating Activity for School Students

Dear Professor's,

We are pleased to appreciate you for organizing the Yoga awareness program collaboratively on International Yoga Day (February 08, 2018). The Gyansthal Public School, New Delhi acknowledged the help and efforts in conducting such activities for our Children.

I look forward to active participation in this collaboration on both the sides.

Director

Gyansthal Public School  
Miranpur (Muzaffarnagar)  
UP-251315 Aff.No. 2130790



By-Pass Miranpur, Distt. Muzaffarnagar (U.P.) - 251315. Ph: 01396 - 243880, 08392909105  
E-mail : gyansthalipublicschool@gmail.com

Registrar  
Shobhit University  
Engineering & Tech  
(Muzaffarnagar)  
A-68, Modipuram, Meerut-250110



# Delhi Public School Nawada

Shri Yashwantrao Chavan Education Trust  
Near NRI Model, Modipuram, P.O. Nawada, Bihar - 805110, Ph. 06174 223592  
Affiliated to CBSE, New Delhi

School Code: 10000000000  
Website: www.dpsnawada.com  
E-mail: dpsnawada@gmail.com

Ref. No: DPS/17/146

Date: 18.10.17

In collaboration with Shobhit Institute of Science and Engineering, Dr. Anuj Aggarwal is hosting the Math's Olympiad. The event takes place on 18/10/17 at our school. The event supported students reaching their full potential in order to improve their mathematical skill. We look forward to organize more events with the help of Shobhit Institute faculty.

Principal  
Delhi Public School  
Nawada-805110

  
Registrar  
Shobhit  
(Deemed to be University)  
NRI-58, Modipuram, Meerut-250110

(Engg. & Tech)







Mount Litera  
Zee School  
Meerut

Great School. Great Future



Ref. No. MLZS/17/036.....


Date: 09/09/2018.....

**Letter of Collaboration**

The Mount Litera Zee School, Meerut and Dr. Ashok Gupta, Professor, Shobhit University, Meerut collaboratively organized Innovation, Leadership and Motivation Seminar for our school students on Feb10, 2018.


We appreciate the help and efforts in conducting such activities for our Children.

I look forward to an active role in this collaboration.

  
Mr. Amit Kohli  
(Principal)  
MLZS, Meerut  
Principal  
MOUNT LITERA ZEE SCHOOL  
NH-58, Roorkee Road,  
Modipuram, Meerut-250 110  
Phone : 0121-2579951  
School Code : 60760  
CBSC Aff. No.: 2131804

NH-58, Roorkee Road ;Behind potato research centre, Modipuram, Meerut, 250110 (Uttar Pradesh), India  
[www.mountlitaschool.org](http://www.mountlitaschool.org) | [mountlitaschool@gmail.com](mailto:mountlitaschool@gmail.com)

Welcome No : +91-121-2579951 | For Admission : +91 9760420251 | For Transport : +91 8265957035

  
Registrar  
Shobhit University of Engg. & Tech  
(Dean  
University)  
NH-58, Modipuram, Meerut-250110



# ए० एस० इन्टर कालिज

मवाना (मेरठ)

क्रमांक 162.....

दिनांक 08/09/2017

मुझे यह बताने दुरु बेहतर सुझाव है रही है कि शोभित प्रिन्सिपल  
मेरठ के डा० जयानन्द और उनके सहभागी, हमारे स्कूल में  
विद्यार्थियों को केशव मैट्रियल से कागज कैसे बनाया जाता  
है उसकी जानकारी सभी विद्यार्थियों को दी। ये सब जानकारी  
ले कर विद्यार्थियों को केशव मैट्रियल को साइंस में क्या  
उपयोगिता होती है। शोभित प्रिन्सिपल के डा० जयानन्द जी हमारे  
स्कूल में विद्यार्थियों को ऐसे व्याख्यान देते रहे हैं।

*(Handwritten signature)*  
03.

*(Handwritten signature)*  
Registrar  
Shri Ram College of Engg. & Tech  
(University)  
NH-58, Modipuram, Meerut-250110





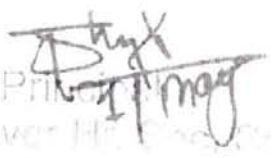
# GYAN SAROVER HIGHER SECONDARY SCHOOL


LAKHWAYA - RASOOLPUR, MEERUT.

Ref. No. GSHSE /18/206

Dated : 09/02/20

This is to certify that Prof.-(Dr) Jyoti Sharma  
Shobhit Deemed University Meerut conducted  
Career building Seminar for 10<sup>th</sup> & 12<sup>th</sup> Standard Students  
on Topics of Use of Technology & Science in present  
Time. held on 09/12/18 in association with our  
School.

  
Principal  
Gyan Sarover H.S. School, Lakhwaya

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





# NOBLE PUBLIC SCHOOL

Affiliated to C.B.S.E. Delhi No. 2130274

To,  
Dr. Jyoti Sharma  
Professor, Shobhit University,  
Meerut, U.P.

**Subject: Appreciation Letter for Collaboration**

Dear Professor,


We would like to thank you for your awesome contribution in organizing a collaborativeworkshop on "Be Your Own Doctor: Yoga and Naturopathy"for Noble Public Schoolstudents on March 27, 2018.

We appreciate the help and efforts in conducting suchactivities. We would be glad if you contribute more in the future.

I look forward to this collaboration with the University.



Near Medical College, Garh Road, P.O.L.R.M. Medical College, Meerut - 250004

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to-Be University)  
NH-58, Modipuram, Meerut-250110



**R.V.M.J.H. SCHOOL**

Vill. Chandpur, M. Nagar



9758692174

~~9758745928~~

8993334674

To, **Ref. No. 7**

Dr. Jyoti Sharma

Professor, Shobhit University,

Meerut, U.P.

Date 7/11

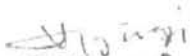
**Subject: Appreciation Letter for Collaboration**

Dear Professor,

The R. V. M. J. H School, Muzaffarnagaris pleased to collaboratively organize a program for educated the farmers with new technology during Kisan Mela with our students on Oct07, 2017.

We appreciate the help and efforts in organizing this program to promote the growth and development of farmers and farming system of Indian farmers.

I look forward to this collaboration with the University.

  
प्रधानाचार्य

राज बिद्या मन्दिर, मा. विद्यालय  
चौदपुर, म. नगर (उ.प्र.)

  
Shobhit Institute of Engg. & Tech  
(Deemed to-Be University)  
NH-58, Modipuram, Meerut-250110





9997539022  
8475905990

# दिशा इण्टर कॉलिज


समौली, दौराला (मेरठ)


माध्यमिक शिक्षा परिषद् इलाहाबाद उ०प्र० द्वारा मान्यता प्राप्त

पत्रांक संख्या ०१४/२०१६

दिनांक 12/3/2018

हमें यह बहुत हर्ष हो रहा है कि शोभित विद्यालय के डा. ज्योति शर्मा और डा. मीशा रस्तोगी ने छात्राओं को मासिक धर्म के बारे में जानकारी दी और उसने रखरखाव और स्कूल अध्यापिका से बात कैसे करती हैं उसके बारे में छात्राओं को महत्वपूर्ण सुझाव दिए। हम और हमारे स्कूल के प्रांगण में खेलना कार्यक्रम पक्षी वार हुआ। शोभित प्रिंसिपल हमारे यहां इस तरह की जानकारी देने के लिए जुड़े हुए हैं।

  
Principal  
Disha Inter College  
Samoli, Daurala (Meerut)

  
Principal  
Disha Inter College  
Daurala, Meerut  
250119

प्रेषक:-

प्रधानाचार्य/प्रबन्धक

।। विद्या ददाति विनयम् ।।

0037473325

**राजवंश उ० मा० विद्यालय**

ग्राम रसूलपुर-कैलौरा, खतौली (मु० नगर)

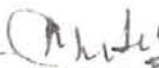
सेवा नं. श्रीमान् वाइसचान्सलर  
शोभित विश्वविद्यालय मेरठ

विषय:- धान की खेती के रखरखाव

पत्रांक 816.....

दिनांक 19.9.2017

डा. ज्योती शर्मा व यशशक्ता ने हमारे स्कूल में कृषि के दातों को धान की खेती के रखरखाव के तौर तरीके सिखाये और धानाओं के कृषि की महत्ता के बारे में बताया, हम शोभित विश्वविद्यालय के अध्यापकों का आभार करते हुए हमेशा ऐसे धारणान देते रहने का आभार दिल से देता हूँ।

  
प्रधानाचार्य  
राजवंश उच्चतर माध्यमिक विद्यालय  
रसूलपुर कैलौरा खतौली (मु० नगर)

  
Registrar  
Shobhit University of Engg. & Tech  
(Maharaja Ganga Dev University)  
NH-58, Modipuram, Meerut-250112

# खुब लाल उन्नत उच्च माध्यमिक विद्यालय

समविशनपुर, राघोपुर (सुपौल)

स्कूल कोड- 42383

पत्रांक- 05

दिनांक. 20/12/17

मैंने आतिथ्य के साथ यह सुचित कर रहा हूँ, की शोभित विश्वविद्यालय के डा. ममता बनशाल ने Artificial Intelligence के बारे में छात्रों को विशेष जानकारी प्रदान की। इस विषय में उन्होंने रोजगार संबंधी आयात के बारे में जानकारी दी। आने वाले वर्षों में शोभित विश्वविद्यालय, मेरठ ने इस तरह व्याख्यानो का आयोजन हमारे विश्वविद्यालय के समायोजन से करेगा। इस तरह के कार्यक्रम के लिए हमारा विद्यालय, शोभित विश्वविद्यालय का धन्यवाद ज्ञापित करता है।

उदयशंकर कुमार

प्रधानाचार्य

सुपौल-20, राघोपुर (सुपौल)  
समविशनपुर, राघोपुर (सुपौल)



Shobhit Institute of Engg & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250111







# SWAMI SATYANAND SARASWATI VAANI SCHOOL AND RESEARCH CENTRE

FOR THE DEAF CHILDREN

P-1, Pallavpuram Phase-II, Meerut Tel. (0121) 2577083

(Run By FRIENDS OF HANDICAPPED-INDIA TRUST)

245/6, THAPAR NAGAR, MEERUT TEL.: 2420882 E-mail : npjaini@yahoo.com

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IDAS. Dy. CDA (Retd.)

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Industrialist

Daman Vats  
Industrialist

152

19/8/17

Vani School and Research Centre requesting to the Registrar Shobhit University, Meerut to provide a Computer teaching faculty to our Specialised children. In previous years Dr. Manita Bernal was associated with us for the same purpose. We request you to provide one faculty member for the academic year 2017-18.

Regards

Registrar  
Shobhit University of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250111

18/4/2018

ग्राम पंचायत सरूरपुर खुर्द हमारे गांव में मासिक धर्म चक्र के दौरान स्वच्छता रखरखाव पर सहयोगात्मक जागरूकता कार्यक्रम के लिए डॉ मनीषा रस्तोगी के प्रयास की सराहना करती है। यह आयोजन दिनांक 18 अप्रैल 2018 को आयोजित किया गया था और महिलाओं ने भविष्य में भी इस तरह के आयोजनों की मांग की थी।

भवदीप  
ग्राम प्रधान  
डॉ. सरधना मेरठ  
श्रीमती प्रभा

श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नु सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,



क्रमांक ५४.....

दिनांक ११/०६/२०१८.....

प्रमाणित किया जाता है कि डॉ मनीषा रस्तोगी, शिव शर्मा और बीना रावत  
सहायक प्राध्यापक, शोभित विश्वविद्यालय, मेरठ ने दिनांक 11/06/2018  
15/06/2018 को ग्राम प्रधान मैथाना के सहयोग से ग्रामीणों के लिए खोई से सक्रिय  
कार्बन के उत्पादन पर एक प्रशिक्षण कार्यक्रम आयोजित किया है।

हम उनके बहुत आभारी हैं।

अनिता

  
Secretary  
Department of Engg. & Tech.  
Noida  
Noida, Uttar Pradesh (Pin-250110)

फोन : 01237-285368

प्रेषक :

प्रबंधक / प्रधानाचार्य

राष्ट्रीय इंटर कॉलिज

लावड़, मेरठ

email : rictawar@gmail.com



सेवा में,

श्रीमान्

Vice Chancellor  
Shekhi University, Meerut

पत्रांक 60

दिनांक 18/11/2017

विषय :- मानव जीवन में जीवप्रौद्योगिकी का महत्व

अत्यन्त प्रसन्नता के साथ मैं डा. माधवदत्त जोशी, जीवप्रौद्योगिकी विभाग का आभार व्यक्त करता हूँ डा. जोशी ने जीव विज्ञान के दात दस्तावेजों को जीवप्रौद्योगिकी का महत्व हमारी जीवन प्रणाली में क्या प्रभाव डालता है दातों को आने वाले भविष्य में इसकी महत्वता पर प्रकाश डाला। हम शोभित विश्वविद्यालय मेरठ का आभार व्यक्त करता हूँ, जब से हमारा स्कूल शोभित से जुटा है हम तहविल से आभार व्यक्त करते हैं।

प्रधानाचार्य  
राष्ट्रीय इंटर कॉलिज  
लावड़ (मेरठ)

Shekhi University of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250117

फोन : 01237-285368

प्रेषक :

प्रबंधक / प्रधानाचार्य

राष्ट्रीय इण्टर कॉलेज

लावड़, मेरठ

email : nclawar@gmail.com



सेवा में,

श्रीमान् वाइसरास्टर

शोभित यूनिवर्सिटी, मेरठ

मेरठ

पत्रांक... १०८८.....

दिनांक... 18/7/2017

विषय :- JEE और NEET परीक्षा की तैयारी कैसे करें।

मुझे यह बताते दुरे हर्ष हो रहा है कि डॉ. मायादत्त जोशी  
डॉ. ज्योति शर्मा व डॉ. विपिन व्यासों और शोभित यूनिवर्सिटी मेरठ के  
अनुभवों अध्यापक हैं। हमारे स्कूल राष्ट्रीय इण्टर कॉलेज में हर माह  
स्कूल के भावी छात्रों को प्रतिमाह चार घण्टे फ्री पढ़ाने  
आते हैं। स्कूल के सभी भावी छात्र व छात्राएँ उस दिन बहुत  
ही उत्सुक रहते हैं। हमारी संस्थान शोभित के साथ जुड़कर  
बहुत आग्राही है।

प्रधानाचार्य  
राष्ट्रीय इण्टर कॉलेज  
लावड़ (मेरठ)

Shobhit  
Dean  
of Engg. & Tech  
250111



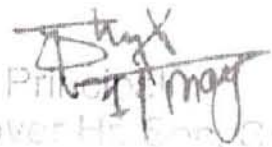
# GYAN SAROVER HIGHER SECONDARY SCHOOL

LAKHWAYA - RASOOLPUR, MEERUT.

Ref. No. 68 HSS/17/2018

Dated: 23/11/2018

मुझे यह बताने का दुःख है कि डा० माया देवतिया, बायोटेक्नोलॉजी विभाग और रूपेश कुमार प्रौद्योगिकी विभाग, शोभित सीड्स टू बी यूनिवर्सिटी ने ग्राम सरघना मेरठ में स्वास्थ्य रूपे कैंसर सम्बन्धित जन जागरूकता शिविर का आयोजन किया। इस शिविर में हमारे विद्यालय के छात्र छात्रों ने भी वें लिया। इस आयोजन को सफल बनाने में शोभित विश्वविद्यालय का उत्कृष्ट समर्थन रहा है।

  
Principal  
Gyan Sarover H. Sec. Sch.



School Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



---

## Review of Article received for Publication

---

NICE Journal <editornjb@gmail.com>

Thu, Nov 9, 2017 at 11:20 AM

To: ajaykumar@cuh.ac.in

Dear Dr. Ajay Kumar

Thank you for agreeing to review the article titled, "Mediating variables in Multi-attributes Service Performance Framework (MASP Model) in the Indian Health care Sector . Please find the same along with the reviewers report,

With best wishes

--

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110

Mobile no.09818134500


Dr. Neha Yajurvedi


Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110

Mobile no. 9454838216  
7617505013

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### 2 attachments

 **Mediating variables....doc**  
111K

 **Reviewer's format.docx**  
12K

  
Shobhit University  
Modipuram, Meerut-250110  
Engg. & Tech  
Modipuram, Meerut-250110

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---

**Review of Research paper**

---

NICE Journal &lt;editornjb@gmail.com&gt;

Mon, Dec 4, 2017 at 10:54 AM

To: vk looned &lt;drvinod42@gmail.com&gt;

Dear Dr. Vinod,

Thank you for agreeing to review an article received for publication in NICE Journal of Business. I attached the article titled " Decision making for Investment in stocks..." You are requested to send your report on urgent basis (by tomorrow) on the proforma attached. A soft copy of the last issue of our journal is attached for your perusal.




--

**Prof. D.P.S. Verma**Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110

Mobile no.09818134500


**Dr. Neha Yajurvedi**Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 9454838216  
7617505013

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**3 attachments** **Asim 3 dec.docx**  
78K **Vol 12 no. 1 NICE Journal.pdf**  
10474K **Reviewer's format.docx**  
12K  
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12. Dr. Vinod Kumar, Guru Nanak Dev Khalsa College, Delhi University, New Delhi

  
Registrar  
Shobhit Institute of Engg. & Tech.  
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NH-58, Modipuram, Meerut-250110



केन्द्रीय माध्यमिक शिक्षा बोर्ड  
( भारत समाप्त विकास पंजाब, भारत सरकार के अधीन एक स्वायत्त संस्थान )  
CENTRAL BOARD OF SECONDARY EDUCATION  
(An Autonomous Organisation under the Ministry of Human Resource Development, Govt. of India)



To,

Dr. Poonam Devdutt

Expert, Psychology

Shobhit University, Meerut

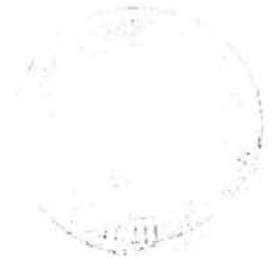
Regarding TeleHelpline-2018 for CBSE Students

Dear Dr. Devdutt

Department of Central Board of Secondary Education requesting you to counsel the Board appearing students and provide your support for tele Helpline-2018. We would be highly grateful to you for your collaborative support.

Regards

Chairperson, CBSE



पिछा केंद्र 2 सा... केंद्र 001 फिरोजिनी 110092  
"SIRSHAKENDRA" 2, 001... CENTRE, PREET VIHAR, DELHI-110092  
Phone (en.) : 011-22509255-59, 22509275-79, Web site: www.cbse.gov.in, www.cbse.nic.in



Shobhit  
(Deemed to be University)  
Engg. & Tech  
NH-58, Modipuram, Meerut-250110



केन्द्रीय माध्यमिक शिक्षा बोर्ड  
CENTRAL BOARD OF SECONDARY EDUCATION

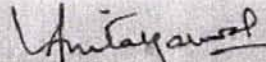
प्रशंसा प्रमाण-पत्र  
Certificate of Appreciation

सी बी एस ई टेली हेल्पलाइन 2018 को सफल बनाने में स्वीछिक्त सहयोग देने के लिए  
कु/श्रीमती/श्री पूनम देवदत्त  
के उत्कृष्ट योगदान को कृतज्ञतापूर्वक अभिस्वीकार किया जाता है।

CBSE gratefully acknowledges the outstanding contribution of  
Km./Smt./Sh. Poonam Devdutt  
for voluntary support extended in making CBSE Tele Helpline 2018 successful.

दिनांक / Date 30.6.2018



  
अनिता करवल / Anita Karwal  
अध्यक्ष, सी बी एस ई / Chairperson, CBSE



Shri  
(Department of Engg. & Tech  
University)  
New-55, Meerut-250110





# Delhi Public School Nawada

Run Under Jindal Child Education Trust  
Near Kuli Mandir, Manbigha, PO. Gorawan, Dist. Nawada Bihar - 805110 Ph. 08574 233392  
Affiliated to CBSE, New Delhi

School Aff. No. 100/01  
School Code: 100/01  
Website: www.dpsnawada.org  
Email: principal@dpnawada.org

Date - 16/08/2017

To,  
Dr. Poonam Devdutt  
Professor, Shobhit University,  
Meerut, U.P.

Subject: Appreciation Letter for collaboratively organized Career Building Seminar in Delhi  
Public School, Nawada

Dear Professor,

With due respect this is to be stated that we are very thankful for organizing collaboratively Career Building Seminar for X and XII school students on August 16, 2017 in our school. We appreciate and acknowledge for the help and efforts.

I look forward to an active role in this collaboration.

Principal  
Delhi Public School  
Nawada-805110

  
Principal  
(D)  
N11-5

& Tech





9997539022  
8475905990

# दिशा इण्टर कॉलिज

समौली, दौराला (मेरठ)

माध्यमिक शिक्षा परिषद् इलाहाबाद उ०प्र० द्वारा मान्यता प्राप्त

पत्रांक संख्या ४१५

दिनांक 7/2/2018

श्रीमान,  
कुलपति महोदय  
शोभित वि०वि० मेरठ

महोदय

अल्पकाल अज्ञानता का विषय है कि शोभित वि०वि० के विभिन्न विभागों के छात्रों एवं अध्यापकों द्वारा आज दिनांक 7.02.2018 को महिला एवं बालिकाओं के अधिकारों पर सजोबदी आर्गुमेंट की गई। वि०वि० की टीम द्वारा महिला एवं बाल उद्योगों से रोकथाम हेतु उच्चको कानूनों पर चर्चा की गई।  
में शोभित वि०वि० की टीम का आभार व्यक्त करता हूँ।

धर-पवार

*Dhar*  
Principal

Disha Inter College  
Samoli, Daurala (Meerut)

*[Signature]*  
Registrar

Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut



**Reference No:** 2018/I-19

**Date:** 07.03.2018

**To Whomsoever It May Concern**

This is to appreciate to Dr. Sandeep Kumar from Shobhit University for effectively carrying out consultancy collaborative project titled Digital Marketing: Strategies, Models and Frameworks at Studenting Era, Noida along with our team for a period of 1 year (2020-21).

He has performed his duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish him all success in his future endeavours.



Director



Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-56, Modipuram, Noida-201301



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UDISE Code - 10190404015

School Code - SAM/TAJ/07

# CHANAKYA INTERNATIONAL SCHOOL

English Medium/Co-Education/CBSE Syllabus

N.H.-28, Tajpur (Samastipur)

To,  
Dr. Sandeep Kumar  
Professor  
Shobhit University, Meerut

Ms. Shiav Sharma  
Assistant Professor  
Shobhit University, Meerut


## Certificate of Appreciation

This is to certify that Prof. Sandeep Kumar and Ms. Shiva Sharma organized a collaborative seminar on Waste to Resource: A plan to zero waste for our school students on date 27/02/2018 at our premises. We wish this type of collaborative event in future also.

These efforts of Shobhit University are highly appreciable.

Thank you

With regards

  
Principal  
Chanakya International School  
Tajpur, Reg. No. SAM/TAJ/07

  
Registrar  
Shobhit University of Engg. & Tech  
(H. No. 10, N.H. 28, Meerut-250112)







shiva sharma &lt;shiva.sharma98@gmail.com&gt;

## Regarding Short term Summer

4 messages

shiva sharma <shiva.sharma98@gmail.com>  
To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>

Fri, Jun 2, 2017 at 1:18 PM

Respected sir,

Following students are interested for the short term summer training program from 19/06/17 to 23/06/17 in Repair & Maintenance of Physiotherapy & EEG lab Equipment.

### list of candidates:

1. Gulfsha Rao
2. Sana
3. Shadab
4. Rishabh
5. Punit
6. Anurag
7. Sweety
8. Anupama
9. Shanu
10. Vaseem
11. Pooja
12. Sugandha

please allow them for the same.

Regards

Shiva Sharma

DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
Reply-To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
To: shiva sharma <shiva.sharma98@gmail.com>

Fri, Jun 2, 2017 at 4:18 PM

Mam,

Due to some urgent official work I have to go to Delhi DGT for two days ,i.e., 19 & 20 Kindly reschedule the course from 26/6/17 to 30/6/17. inconvenience caused is regretted .

Regards.

D.K. Ojha  
Deputy Director  
ATI-EPI, MSDE ,  
Govt. of India  
Dehradun

  
Deputy Director  
State Institute of Engg. & Tech.  
(Dehradun University)  
NH-56, Modipuram, Meerut-250110

On Friday, 2 June 2017 1:18 PM, shiva sharma &lt;shiva.sharma98@gmail.com&gt; wrote:



shiva sharma &lt;shiva.sharma98@gmail.com&gt;

## Reg. short term courses in medical electronics .

3 messages

DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 Reply-To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 To: Shiva Sharma <shiva.sharma98@gmail.com>  
 Cc: Anil Grover <agrovar@hotmail.com>

Wed, Dec 20, 2017 at 10:02 AM

Mam,

kindly refer our telephonic discussion regarding the above cited subject, I like to remind to pl. send the dates in January 18 & also the nos. of boys & girls who will attend the programme so that necessary arrangements in hostel may be made at our end.  
 I wish very happy & prosperous new year to you .

Regards,  
 D.K. Ojha  
 Deputy Director  
 ATI-EPI, MSDE ,  
 Govt. of India  
 Dehradun

shiva sharma <shiva.sharma98@gmail.com>  
 To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>

Thu, Dec 21, 2017 at 1:35 PM

Respected Sir,

We are confirming the one week training program from 15th January 2018 in cardiac technology module. There are 12 students ready to attend the training program. I will send the list of the student with their training letter on same day. Kindly confirm and also send the detail fee structure with accommodation charges.

Regards  
 Shiva Sharma  
 Shobhit University, Meerut  
 [Quoted text hidden]  
 --


DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 Reply-To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 To: shiva sharma <shiva.sharma98@gmail.com>

Thu, Dec 21, 2017 at 2:50 PM

Mam,

Training program in cardiology lab for 12 students from 15 Jan 2018 is confirmed.  
 Fee structure is as given below -  
 Course fee -----Rs.1000/- trainee/week  
 Registration fee ---Rs.100/-trainee/week  
 Gymkhana fee -----Rs.10/-trainee/week  
 Food charges are extra & is payable to canteen operator directly by the trainee.

Regards,  
 D.K. Ojha  
 Deputy Director

  
 Shobhit Institute of Engg. & Tech  
 (Deemed to-Be University)  
 NH-58, Modipuram, Meerut-250111

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## International Journal of Heat and Mass Transfer

Volume 111, August 2017, Pages 451-466

## A macroscopic filtration model for natural convection in a Darcy Maxwell nanofluid saturated porous layer with no nanoparticle flux at the boundary

Jaimala<sup>a</sup>, Reema Singh<sup>a</sup>, Vipin Kumar Tyagi<sup>b</sup><sup>a</sup> Department of Mathematics, Chaudhary Charan Singh University, Meerut 250004, UP, India<sup>b</sup> Department of Mathematics, Shobhit University, Meerut 250004, UP, India

Received 11 January 2017, Revised 26 March 2017, Accepted 1 April 2017, Available online 12 April 2017.

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[Outline](#) | [Share](#) [Cite](#)<https://doi.org/10.1016/j.ijheatmasstransfer.2017.04.003>[Get rights and content](#)

## Highlights

- Using linear stability theory, stationary and oscillatory convections have been discussed.
- Using nonlinear stability theory, behavior of streamlines, isotherms and isohalines have been analyzed.
- More realistic boundary conditions that there is no nanoparticle flux at the boundaries have been assumed.
- The existence of oscillatory convection.
- Mass transfer occur through diffusion as well as convection.

## Abstract

Classical Horton-Rogers-Lapwood problem is extended for the Maxwell nanofluid in the framework of Buongiorno's nanofluid model in which effects of thermophoretic and Brownian diffusions (resulting from the continuous collisions between the nanoparticles and the molecules of the base fluid) are incorporated in the flow. The flow is stimulated with modified Darcy-Maxwell fluid model under the assumption that nanofluid particle fraction is not actively managed at the boundaries. Linear stability theory is used and it is found that the stationary convection is not governed by the relaxation parameter. Further, the presence of nanoparticles is responsible to reduce Horton-Rogers Rayleigh number by a substantial amount. It is shown that the oscillatory convection exists which finally shifts to stationary convection. Under non-linear stability analysis, the truncated representation of Fourier series method has been used. The derivations of the thermal Nusselt number and concentration Nusselt number are able to explain the mode of transfer of heat and mass.

## DEVELOPMENT AND VALIDATION OF ANALYTICAL METHOD FOR THE ESTIMATION OF LAMOTRIGINE IN HUMAN PLASMA

Ashok Kumar<sup>1\*</sup>, Maya Dutt Joshi<sup>1</sup>, Akanksha Gupta<sup>2</sup>, Sanjay Gurule<sup>3</sup>, Rupesh Kumar<sup>1</sup>, Rahul Kaushik<sup>4</sup>, Nishant Chaudhary<sup>5</sup>, Aditya Pundhir<sup>1</sup>, Manisha Rastogi<sup>1</sup>

<sup>1</sup>School of Biotechnology, Shobhit University, Meerut, Uttar Pradesh.

<sup>2</sup>Department of Pharmaceutical Chemistry, Krishnarpit Institute of Pharmacy, Allahabad, Uttar Pradesh.

<sup>3</sup>Ranbaxy Research Laboratory, Gurgaon.

<sup>4</sup>Ram-Eesh Institute of Vocational and Technical Education, Greater Noida.

<sup>5</sup>Senior Executive, Dhanuka Agritech Private Limited, Manesar, Haryana.

Article Received on  
19 June 2017.

Revised on 10 June 2017,  
Accepted on 31 July 2017,

DOI: 10.20959/wjpps20178-9967

\*Corresponding Author

Ashok Kumar

Research Scholar, School  
of Biotechnology, Shobhit  
University, Meerut, India.

### ABSTRACT

A Simple, rapid, selective and sensitive liquid chromatographic mass spectrometry method was developed and validated for the determination of Lamotrigine from human plasma. The drug was extracted by ethyl acetate. Lamotrigine was measured in plasma using a validated method with mass spectrometer detector. Chromatographic peaks were separated on 4 $\mu$ m Chromolith, RP C-18 (50 $\times$ 4.6mm, 4 $\mu$ ) using 80:20 v/v Phosphate buffer pH 2.5, Acetonitrile as mobile phase at a flow rate of 0.500 ml/min. The chromatograms showed good resolution and no interference from plasma. The mean recovery from

human plasma was found to be above 85%. The method was linear over the concentration range of 5  $\mu$ g/ml to 1200  $\mu$ g/ml with coefficient of correlation ( $r^2$ ) 0.9987. Both intraday and interday accuracy and precision data showed good reproducibility. This method was successfully applied to pharmacokinetics studies.

**KEYWORDS:** Lamotrigine, Human plasma, LC/MS.



# Implementation of High Speed and Low Power Novel Radix 2 Booth Multiplier using 2248 BEC Converter

Mahendra Tiwari<sup>1</sup>, Aniket Kumar<sup>2</sup>  
Assistant Professor<sup>1,2</sup>

Trident ET Group of Institutions, Ghaziabad, U.P, India<sup>1</sup>  
Shobhit University, Modipuram, Meerut, U.P, India<sup>2</sup>

## Abstract:

A multiplier is one of the key hardware blocks in most digital and high performance systems such as FIR filters, digital signal processors and microprocessors etc. With advances in technology, many researchers have tried and are trying to design multipliers which offer either of the following- high speed, low power consumption, regularity of layout and hence less area or even combination of them in multiplier. Thus making them suitable for various high speed, low power, and compact VLSI implementations [1]. However area and speed are two conflicting constraints. So improving speed results always in larger areas. So in this research main aim was to find out the best trade off solution among the both of them. It helps us to make a proper choice among different adders in booth multiplier that is used in different digital applications according to requirements.

**Index Terms:** radix-2 booth multiplier, ripple carry adder, novel carry select adder (CSA), binary to excess-1 converter

## I. INTRODUCTION

As the scale of integration keeps growing, more and more sophisticated signal processing systems are being implemented on a VLSI chip. These signal processing applications not only demand great computation capacity but also consume considerable amount of energy. While performance and area remain to be the two major design tolls, power consumption has become a critical concern in today's VLSI system design [1]. Multiplication is normally done in two steps- Partial product generation and addition. In booth multiplication, partial product generation is done based on radix 2 encoding which is as given by Table I. Bits of multiplicand (Y) are grouped from left to right and corresponding operation on multiplier (X) is done to generate partial product. The addition of partial products is carried out by using CSA. In the binary number system the digits, called bits, are limited to the set [0, 1]. The result of multiplying any binary number by a single binary bit is either 0, or the original number. This makes forming the intermediate partial-products simple and efficient. Summing these partial-products is the time consuming task for binary multipliers. For applications where this approach does not provide enough performance, multipliers can be implemented directly in hardware.

## II. NORMAL BOOTH MULTIPLIER

Parallel Multiplication using basic Booth's recoding algorithm technique based on the fact that partial product can be generated for group of consecutive 0's and 1's which is called Booth's recoding. This recoding algorithm is used to generate efficient partial product. These partial product always have large number of bits than the input number of bits. This width of partial product usually depends upon the radix scheme used for recoding. So, these scheme uses less partial products which comprises low power and area. Fig. 2 shows the flow chart for normal booth multiplier which uses Ripple Carry Adder.

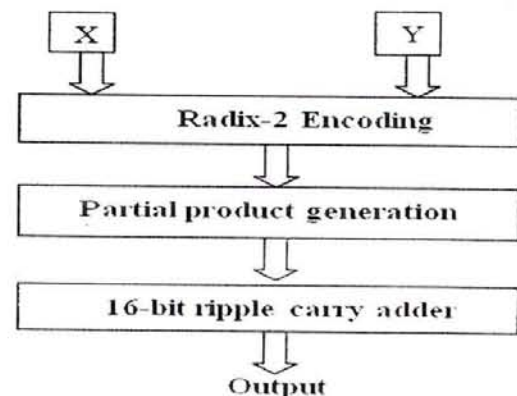


Figure.1. Flow chart for normal Booth Multiplier

The most straight forward implementation of final stage adder is Ripple Carry Adder in which cascaded full adders are used. The carry generated in previous full adder works as input carry for next stage full adder. N bit Ripple Carry Adder as shown in Fig. 2 requires N full adders.

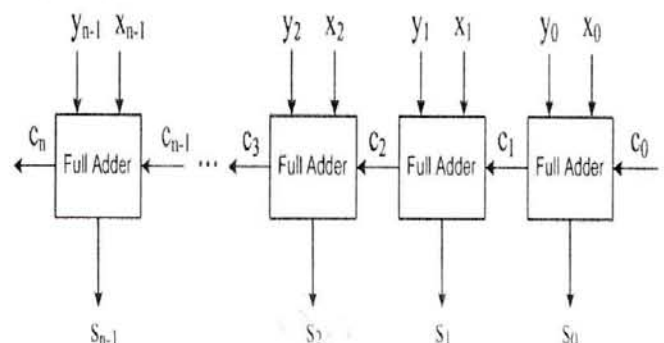


Figure.2. Block Diagram of RCA

## DRAWBACKS OF USING RIPPLE CARRY ADDER:

➤ It is not efficient when large numbers of bits are used.



Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>

**Fwd: Annual sponsor of "Indian Education Network" - 2018**

1 message

shiva sharma <shiva.sharma98@gmail.com>  
To: "Dr. Alpana Joshi" <alpana.joshi@shobhituniversity.ac.in>

Mon, Dec 27, 2021 at 8:52 PM

----- Forwarded message -----

From: **Devinder Narain** <devinder.narain@shobhituniversity.ac.in>  
Date: Mon, 27 Dec 2021, 19:48  
Subject: Fwd: Annual sponsor of "Indian Education Network" - 2018  
To: shiva sharma <shiva.sharma98@gmail.com>

----- Forwarded message -----

From: **Manish Chhabra** <manish@indianeducationnetwork.com>  
Date: Wed, Nov 29, 2017 at 11:11 AM  
Subject: Annual sponsor of "Indian Education Network" - 2018  
To: Devinder Narain <devinder.narain@shobhituniversity.ac.in>

Dear Devinder Narain,

It is with great pleasure that I offer your organisation a great opportunity to become a valuable **Annual sponsor of the "Indian Education Network"**.

We are happy to see that you have had a continuous participation in this program for the past two years. We truly believe that you will provide your valuable support to this program this year as well. As a valuable sponsor, your company banner will be showcased during the event.

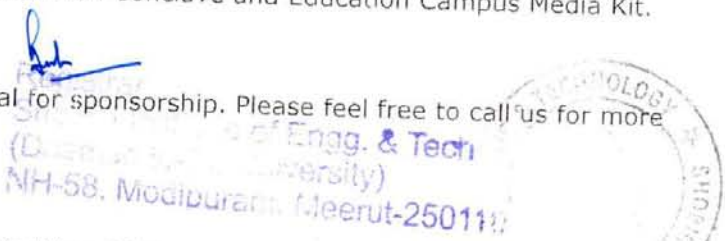
Annual Sponsorship / Partner to you at 2,50,000/-

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I am enclosing our upcoming 6<sup>th</sup> Higher Education Conclave and Education Campus Media Kit.

We appreciate you considering our proposal for sponsorship. Please feel free to call us for more information about the program.



# A Study of Data Mining Based Techniques for Water Management and Crop Prediction

Meenakshi Malik<sup>1</sup>, Mamta Bansal<sup>2</sup> and R.P. Agarwal<sup>2</sup>

## Abstract

In recent years in India, agriculture has become a risky and farmers commits suicide due to poor yield. The risk is mainly due to availability of water for cultivation and getting profitable prices in market. Prices alter between very high and very low, so it becomes very important for farmers to do wise crop planting to become profitable. Data mining techniques can help to understand the under laying patterns from mass data and if this patterns can be used to help farmers for crop planning, it would reduce the risk and guarantee a minimum profit for farmers to sustain their livelihood. This paper includes the survey on different studies on data mining and agriculture to water management and crop prediction.

**Keywords:** Crop yield, Crop prediction, Data mining techniques, Water management, Ground water patterns

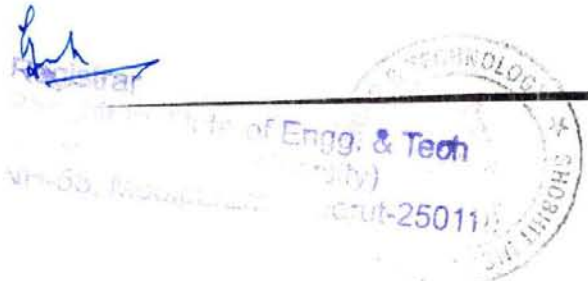
## INTRODUCTION

Suppliers of water to homes and agriculture are discovering approaches to examinations the endless volumes of data their new intelligent frameworks are creating keeping in mind the end goal to pick up bits of knowledge in client patterns and operational efficiencies. The new universe of administration supply, in view of brilliant meters, intelligent matrices, and improved client relationship administration frameworks, has as of now created gigantic data sets that service organizations are quick to examinations [1]. Around Europe providers

of power, gas and water administrations are beginning to investigate how 'big data' examination can prepare the inconceivable measures of data which are either effectively accessible, or are without further ado to come online from broad brilliant meter rollouts in process or being arranged [2].

Market expert GTM Research predicts worldwide service organization consumption on data investigation will develop from \$700m in 2012 to \$3.8bn in 2020, with gas, power, and water providers in all locales of the world expanding their speculation. GTM's David J Leeds depicts the new

1. ICAR-National Research Centre for IPM, New Delhi, India  
2. Shobhit University, Modipuram, Meerut, U.P. India





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E: mail@shobhituniversity.ac.in  
www.shobhituniversity.ac.in

Ref: SU/RO/ADS/5(SBS)/2018

To,

**Mr. Amit Kumar**

S/O Sh. Om Prakash

H.No-16 gali no-01 ambedkar colony

khera khurd New Delhi

9968367061, [amitkumar3575@gmail.com](mailto:amitkumar3575@gmail.com)

Dated: 24<sup>th</sup> December, 2018

**URDC Result – Confirmation of Ph.D. Registration**

Dear Student,

- Further to our letter No SU/RO/ADS/5(EC)/2018 dated 10<sup>th</sup> July, 2018.
- URDC, in its meeting held on 15<sup>th</sup> December, 2018 has approved the following :-

Synopsis	: Approved.
Registration	: Confirmed
Enrolment No	: 2017050015
Registration No	: SU/Ph.D./Management/P.T./17/04
Date of Registration	: 27 <sup>th</sup> August, 2017
Subject	: Management
Approved Research Topic	: Relevance of Social Media for Health Care Services in India : A Study of Adoption, Usage and Expectation among Patients
Supervisor(s)	: • Dr. Asma Khan, Asst. Professor School of Business Studies, Shobhit University, Meerut • Dr. Poonam Gupta, Dyal Singh Evening College, New Delhi
School /Department	: School of Business Studies

- You are advised to carry out your research work and forward six monthly progress report in accordance with the Ph.D. Ordinance-2016 for our further necessary action. Proforma of progress report is enclosed herewith.

Yours Sincerely,

**Vijay K. Singh**  
Registrar

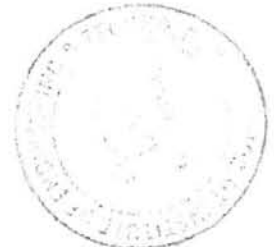
Copy to :

**Dr. Asma Khan**  
Assoc. Prof. & Supervisor  
School of Business Studies

Internal:



- for info, please.



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प्रेषक:-

प्रधानाचार्य/प्रबन्धक

।। विद्या ददाति विनयम् ।।

कॉन्टैक नं. 9837473326

राजवंश उ० मा० विद्यालय

ग्राम रसूलपुर-कैलोरा, खतौली (मु० नगर)

स्वीकृत है,

श्रीमान वाइसचांसलर

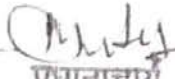
शोभित विश्वविद्यालय मेरठ

विषय:- घर पर बिजली की फिलिंग कैसे की जाती है

पत्रांक..०६८१.....

दिनांक..15.०२.२०१८

मैं शोभित विश्वविद्यालय मेरठ का आभार व्यक्त करते हूँ, हमारे स्कूल के छात्रों को घर में बिजली की फिलिंग कैसे की जाती है इसके बारे में श्रीमान अमिकेत कुमार और श्रीमान हबीबलालजी को धन्यवाद व्यक्त करता हूँ शोभित विश्वविद्यालय हमारे स्कूल में ऐसे कार्यक्रम साल में दो बार करते रहते हैं हम इस संस्था को सभी छात्रों का आभार व्यक्त करता हूँ।

  
प्रधानाचार्य  
राजवंश उच्चतर माध्यमिक विद्यालय  
रसूलपुर कैलोरा खतौली (मु० नगर)

  
Registrar  
Shobhit  
(Deemed to be  
University)  
NH-58, Meerut-250113

Shobhit University  
Faculty of Engg. & Tech.  
Meerut-250113





# SUN BEAM ACADEMY

New Karhera Colony, Gali No. 23, Near Hindon Air Force,  
Moham Nagar, Ghaziabad, Tel. : 9971715521, 9971235710

Ref. No.321

Dated 7/10/2017


## Appreciation Letter for Collaboration

The Sun Beam Academy, Ghaziabad and Mr. Priyank Bharati, Assistant Professor, Shobhit University, Meerut collaboratively organized a program on Inspiring the Young Minds towards Yoga and Human Rights for our school students on Oct07, 2017.

We appreciate the help and efforts in conducting such activities for our Children.

I look forward to this collaboration with the University.



  
Registrar  
Shobhit Institute of Engg. & Techn.  
(Deemed to be University)  
NH-56, Gaziabad, Meerut-250110

  
Principal  
PRINCIPAL

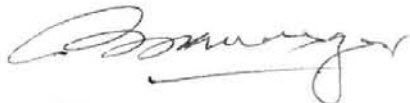
Reference No. PAR/IN/17/681

Date: 8 July 2017

## To Whom it Concern


This is to certify that Dr. Mamta Bansal and Mr. Rajesh Pandey, Shobhit University, Meerut are working on collaborative activity related to the system management and troubleshooting of software with our technical team. This collaboration is effective from October, 2017 to August, 2018 and will be helpful to enhance the technical skills among the staff and troubleshooting of the softwares too.

Regards



Director



  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
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Email: mail@shobhituniversity.ac.in.  
U.: www.shobhituniversity.ac.in

Ref: SU/RO/ADS/5(CS & IT)/2015

To,

Dated: 01<sup>st</sup> July, 2015

Mr. Sunil Kumar S/o Sh. Baljot Singh  
Indian Institute of Farming System Research  
Modipuram, Meerut-250110 (UP)  
[snandal15@yahoo.com](mailto:snandal15@yahoo.com), 09267175273

## URDC Result – APPROVAL OF SYNOPSIS

Dear Mr. Sunil Kumar

1. Further to this University letter No SU/RO/ADS/5(CS & IT)/2014 dated 27 March, 2014 and SU/RO/ADS/5(CS&IT)/2015 dated 13 June, 2015.

2. URDC, in its meeting held on 28<sup>th</sup> June, 2015 has approved the following :-

Synopsis	:	Approved
Registration	:	Confirmed
Subject	:	Computer Engg. & IT
Enrolment No.	:	2013060278
Registration No.	:	SU/CS&IT/Ph.D./13/03
Date of Registration	:	September 01, 2013
Approved Research Topic	:	To be modify with minor changes and forward revised synopsis duly signed by supervisor(s).
Research Centre	:	Project Directorate for Farming System Research(PDFSR), Modipuram, Meerut
Supervisor	:	1. Prof. (Dr.) Rajendra P. Agarwal Academic Advisor, Shobhit University, Meerut-10 (UP) 2. Dr. B. Gangwar Director, PDFSR, Modipuram, Meerut (UP) 3. Dr. M. Shamim Scientist, PDFSR, Modipuram, Meerut (UP) 4. Dr. Mamta Assoc. Prof., Shobhit University, Meerut (UP) e.mail- <a href="mailto:mamta.rajshree@gmail.com">mamta.rajshree@gmail.com</a> , M- 9997025606

3. You are advised to carry out your research work and forward six monthly progress report in accordance with Para 14 of Ph.D. Ordinance (December-2009 print) as per Annexure-I (Copy attached) for our further necessary action. A copy of revised synopsis duly incorporated with new topic and signed by the supervisor(s) on first page as well as yourself on each page may also be forwarded for record.

Yours Sincerely,

Dr. Jayshand  
Registrar

1. All Supervisor(s) Concerned
1. Coordinator, Dept. of CS & IT
2. Finance Officer



Registrar  
Shobhit Institute of Engg. & Tech.  
(Department of CS & IT)  
NH-58, Modipuram, Meerut-250110

प्रेषक  
प्रबंधक / प्रधानाचार्य

राष्ट्रीय इंटर कॉलिज  
लावड़, मेरठ

email: nclawar@gmail.com



सेवा में,

श्रीमान्

विजय भट्टेश्वरी  
शोभित विश्वविद्यालय  
गोपीपुरम मेरठ

फोन : 01237-285368

पत्रांक 121/17

दिनांक 20/09/17

विषय :- कम्प्यूटर शिक्षा देने के सम्बन्ध में।

सेवा में,

श्रीमान् जी हम आपसे जतन बर्धों से ली गई शिक्षा के लिए आभार व्यक्त करते हैं। श्रीमान् गौधम जी सांख्यिक आपसे हमारे विद्यालय में कम्प्यूटर विभाग की स्थापना स्वयं सुचारु संचालन की आशा करते हैं। विद्यालय में कुछ नशीने उपलब्ध हैं। कृपा करके हमारे विद्यार्थियों को उनके उचारण उपयोग से अस्फुट कराया जाय।

*(Handwritten signature)*

प्रधानाचार्य  
राष्ट्रीय इंटर कॉलिज  
लावड़ (मेरठ)



*(Handwritten signature)*

Registrar  
Shreeji Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Hoodiporam, Meerut-250116



A Digital Superstore  
for Millennials

Reference No: 2017/61


Date: 18.02.2017

**To Whomsoever It May Concern**


This is to appreciate to Mr. Vijay Maheshwari from Shobhit University for effectively carrying out consultancy collaborative project titled Project and Employability Programat Studenting Era, Noida along with our team fora period of 1 year (2017-18).

He has performed his duties in a diligent and satisfactory manner and was avaluable member of our project team.

We wish him all success in his future endeavours.

  
Director



  
Registrar  
Shobhit University of Engg. & Tec  
(Deemed to be University)  
NH-6, Meerut-250

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Corporate Office Address: 330, Tower B, DLF Prime Towers, F79-80 Okhla Phase-I, New Delhi-110020

Company Registration No.: U74999UP2016PTC085761

मान्यता प्राप्त

# शिवम उ० मा० विद्यालय, मालैण्डी

जनपद-शामली (उ० प्र०) मो० : 9719637173, 8923686745

पत्रांक 57

दिनांक. 17/8/17

हम और इसे के साथ सूचित करते हैं कि शोभित विश्वविद्यालय के विजय संदेशवरी स्वयं योगेश अपस्थी ने हमारे हाले को कम्प्यूटर शिक्षा सम्बन्धित क्षेत्र में शिक्षा पर एक सेमिनार का आयोजन किया। इस विषय में उन्हे प्रयोगात्मक शिक्षा कम्प्यूटर से सम्बन्धित पर हाले का प्राणवर्धन किया। विश्वविद्यालय ने अपने प्रमाण में भी हाले का प्रयोगात्मक प्राणवर्धन किया। शोभित विश्वविद्यालय सेठ ने आग्रिम भाविक्य में भी इस तरह के कार्यक्रम का आयोजन करने की जाव प्रदान किया। शोभित विश्वविद्यालय के इस प्रयास को हमारे संस्थान द्वारा स्तुति स्वरुप आभार व्यक्त करते हैं।

*Arul*

Principal  
Shivam H.S. School  
Malendi (Shamli)

*Arul*  
Registrar

Shobhit Institute of Engg. & Techn.  
(Deemed to be University)  
NH-58, Meerut, U.P. (U.P. Recruit-250116)



3 17



# A reliability based approach for securing migrating crawlers

Niraj Singhal<sup>1</sup> · Ashutosh Dixit<sup>2</sup> · R. P. Agarwal<sup>1</sup> · A. K. Sharma<sup>2</sup>

Received: 21 February 2017 / Accepted: 20 November 2017  
© Bharati Vidyapeeth's Institute of Computer Applications and Management 2017

**Abstract** Using migrating crawling agents (migrants) based methods, selection and filtration of web documents can be done at web servers rather than search engine side. It helps in reducing the network load significantly, caused by the web crawlers. Since a migrant roams around the web and executes on remote platform, the security problems have become hindrance for development and maintenance of mobile agent technology. So, there is a need to develop secured migrating agents and to fix issues like maintaining security and integrity of the agent, data it carries and the remote platform on which it executes. This paper presents a remote platform oriented reliability based approach that is helpful in maintaining security and integrity of migrants as well as for data it carries and the remote platform.

**Keywords** Security · Restriction · Reliability · Migrating crawling agents · Execution environment · Remote platform

## 1 Introduction

The need of maintaining up-to-dateness of pages in the collection causes a web crawler to revisit the web servers again and again, due to which the resources like CPU cycles, disk space, and network bandwidth, etc. become overloaded [1]. Studies [1, 2] report that about 40% of

current Internet traffic and bandwidth consumption is due to the web crawlers. Using migrating crawling agents (or migrants), the process of selection and filtration of web documents can be done at web servers which reduces network load caused by the web crawlers significantly.

An agent is an autonomous entity that acts on behalf of its owner in an autonomous fashion. Nwana [3] identifies several types of agents, i.e. collaborative agents, interface agents, migrating agents, information agents, reactive agents, hybrid agents and smart agents. Migrating agent [4] is a software agent that features autonomy, social ability, learning and most significantly, mobility. These are capable of roaming wide area networks (like web), interacting with foreign hosts collecting information on behalf of its sender. Several reasons to choose mobile agents for such work are, reduce network load, overcome network latency, encapsulate protocols, execute asynchronously and autonomously, adapt dynamically, heterogeneous, and are robust and fault tolerant [4].

An efficient approach [5] is being proposed for building an effective incremental web crawler that selectively updates its database and/or local collection of web pages instead of periodically refreshing the collection in batch mode thereby improving the "freshness" of the collection significantly and bringing new pages in more timely manner. It also detects web pages which frequently undergo updation and dynamically calculates the refresh time of the page for its next update. Another approach [6] for optimizing the frequency of migrants for visiting web sites based on user's interest, it adjusts the frequency of revisit by dynamically assigning a priority of revisiting to a site by computing the priority based on previous experience that how many times the crawler finds changes in content in 'n' visits and the interest of the users shown in the websites.

✉ Niraj Singhal  
sonis\_niraj@yahoo.com

<sup>1</sup> Faculty of Engineering and Technology, Shobhit University, Meerut, India

<sup>2</sup> Department of Computer Engineering, YMCA University of Science and Technology, Faridabad, India







## Review Article

### *Microstylis muscifera* (Jeevak): Highly Therapeutic and Endangered Orchid

Richa Raturi<sup>1</sup>, Gunpreet Kaur<sup>1</sup>, Vikas Gupta<sup>1</sup>, Mukesh Maithani<sup>2</sup>, RG Singhal<sup>3</sup>, Parveen Bansal<sup>1\*</sup>

<sup>1</sup>UCER, Baba Farid University of Health Sciences, Faridkot, Punjab

<sup>2</sup>Multidisciplinary Research Unit, Guru Gobind Singh Medical College, Faridkot, Punjab

<sup>3</sup>Shobhit University, Meerut

Received 02 Oct. 2017; Accepted 15 Nov. 2017

#### ABSTRACT

In ancient times, Ashwani Kumars (Ayurvedic wonder healers) have been said to see the old, frail and emaciated body of Rishi Chyawan and decided to rejuvenate his body through medication by incorporating *Ashtawarga*, a group of eight medicinal plants in a "Leham" (a semi solid formulation) and did the miracle of rejuvenating the body of Rishi Chyawan as youthful. Since then after the name of Rishi Chyawan, the preparation was called as *Chyawanprash* and has been a favorite and most demanded medicine for Kings and rich people. *Microstylis muscifera* is one of the important plants of *Ashtawarga* group. Department of AYUSH has suggested use of substitutes in formulations in absence of original plants however this option is being exploited by manufacturers rendering this precious plant in ignored condition. Hence it becomes important to highlight the therapeutic potentials of this plant in front of scientists so that a justified research is carried out on an important but ignored plant. A limited data with scientific evidences are available in modern literature/internet sources; whereas old texts show valuable evidences in regional languages or in Sanskrit. Hence real uses of the plant are not well understood by scientific fraternity. Purpose of this compilation is to bring all the therapeutic potentials at a single platform so as to enable scientists working on these plants to know the scientific clues available in ancient literature. The compilation reflects multiple uses of plant active components in a number of Ayurvedic formulations useful in plethora of disorders.

**Keywords:** *Jeevaka*, *Ashtawarga*, Anti-aging, Rejuvenative

#### 1. Introduction

The desire to alleviate pain and discomforts, longing for external health, longevity and vitality prompted early man to explore his natural surroundings. In this process he combined instincts with indulgence and learned many lessons that led to the development of the art of healing by using plants. Due to green wave sweeping across the world, the demand for herbal drugs has increased several folds [1]. *Ayurveda*, the ancient healing science considered by many scientists literally means (Ayur: Life; Veda: Science) science of life. *Ayurvedic* science also called the "Mother of All Healing" basically originated more than 5,000 years ago in India by saints and rishis like Ashwani Kumars, Atreya, Bhardwaja, Dhanwantri, Charaka, and Sushruta etc.

*Ayurveda* is one of the oldest and widely practiced medical systems all over the world owing to less side effect and maximum therapeutic effect. The main aim of *Ayurvedic* system of medicine is to promote health and increase immunity than to fight disease. Hence it is not only a medical system but a way of life that aims at the holistic management of health and diseases widely practiced in Indian subcontinent. Its concepts and approaches are considered to have perfected during 2500-500 BC [2]. Charak Samhita and Sushrut Samhita (500-100 BC) are the two main *Ayurvedic* classics, where in more than 700 plants along with their classification, pharmacological and therapeutic properties have been described [3]. During early phase of *Ayurvedic* development, Ashwani Kumars (*Ayurvedic* wonder healers) saw the old, frail and emaciated body of Rishi

\*Corresponding author: Richa Raturi | E-mail: [mukeshmaithani@gmail.com](mailto:mukeshmaithani@gmail.com)



12/23/21, 9:24 AM

Gmail - Regarding the Visit at Jaipur Foot

Remote-MTA: dns; mta6.am0.yahoo.com net. (98.136.217.202, the server for the domain yahoo.com.)

Diagnostic-Code: smtp; 554 delivery error: dd This user doesn't have a yahoo.com account (bmvssjpr@yahoo.com) [-5] - mta1347.mail.gq1.yahoo.com

Last-Attempt-Date: Fri, 13 Oct 2017 01:08:26 -0700 (PDT)

----- Forwarded message -----

From: shiva sharma <shiva.sharma98@gmail.com>  
To: BMVSS JPR <bmvssj75@gmail.com>, bmvssjpr@yahoo.com  
Cc:  
Bcc:  
Date: Fri, 13 Oct 2017 13:38:24 +0530  
Subject: Regarding the Visit at Jaipur Foot

Respected sir,

We are having **Biomedical Engineering Department** here at **Shobhit Univeristy Meerut** and in this curriculum we are having one portion related to Orthotic and Prosthetic devices so we are very keen to visit your lab, that will give us more knowledge and exposure about the practical implementation of the devices. On behalf of Biomedical engineering Department , I request you to please allow us for the visit your esteemed organization in November 7,2017. if it is possible, Otherwise give us the suitable dates according to your convenience. We shall be highly grateful to you for this.

Regards  
Shiva Sharma  
Assistant Professor  
Shobhit University, Meerut

Y-a-h-@-@-Team <drmehta.jaipurfoot@yahoo.com>  
Reply-To: "Y-a-h-@-@-Team" <drmehta.jaipurfoot@yahoo.com>  
To: "shiva.sharma98@gmail.com" <shiva.sharma98@gmail.com>

Sat, Oct 14, 2017 at 11:00 AM

Dear Mr. Shiva Sharma

Please refer to your email of the 13<sup>th</sup> Oct. 2017.

Your team is welcome at our Jaipur Center (address given below) In the month of Nov 2017.

Bhagwan Mahaveer Viklang Sahayata Samiti

13-A, Gurunanak Path

Malviya Nagar.

Jaipur – 302 017

Please let us know the dates and time.

With regards,

  
Registrar  
Shobhit University, Jaipur  
(Department of Biomedical Engg. & Tech.)  
NH-68, Meerut-250111



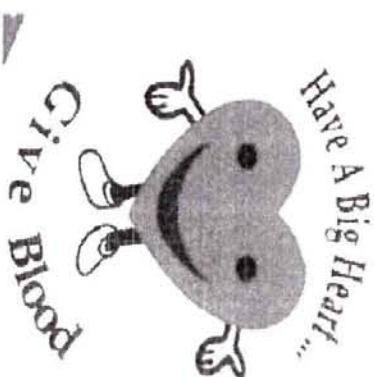


# Blood Donation Camp

## To commemorate Inspirer's Day

On

February 8, 2018



The blood you donate gives someone another chance at life

### GIVE THE GIFT OF LIFE DONATE BLOOD

Organized By:

School of Biological Engineering  
Shobhit University, Meerut



In Association with

LIRM, Medical College, Meerut

Everyone Is Welcome And Save More Lives...


SAFE BLOOD TRANSFUSION IS YOUR BIRTH RIGHT. BLOOD DONATION YOUR DUTY...!!!



Shobhit University of Engg. & Tech.  
(Deemed to be University)  
Meerut-250111

## APPENDIX-I

### Approval from Institutional Ethical Committee



**Shri Yashwantrao Chavan Pratishthan**  
**Shri Yashwantrao Chavan Pratishthan**  
**Shri Yashwantrao Chavan Pratishthan**

**Shri Yashwantrao Chavan Pratishthan**  
**Shri Yashwantrao Chavan Pratishthan**  
**Shri Yashwantrao Chavan Pratishthan**

This is to certify that

**Project No:** SI/KSVAMC/RC/2017-01

**Project Title:** Assessment of Cognitive Enhancement Property of Rudraksha Bead for Overall Wellbeing of Healthy Individual

**Research Scholar:** Shiva Sharma

**Mentor:** Dr. Manisha Rastogi


**Advisors:** Prof. (Dr.) Jayanand, Prof. (Dr.) D.V. Rao

Was received by the **Institutional Ethical Committee** at **Kunwar Shekhar Vijendra Medical College and Research Centre** for ethical approval of clinical trial on **Assessment of Cognitive Enhancement Property of Rudraksha Bead for Overall Wellbeing of Healthy Individual**. The proposal meets the essential requirement for conduct of clinical trial as stated by the Indian Council of Medical Research and is approved by the committee for further work.


It is the Researcher's responsibility to ensure that all researchers associated with this project are aware of the conditions of approval and which documents have been approved.

**The Principal Researcher is required to notify the Secretary of the Ethics Committee, via amendment or progress report, of**

- Any significant change to the project and the reason for that change, including an indication of ethical implication (if any).
- Serious adverse effects on participants and the action taken to address those effects.
- Any other unforeseen events or unexpected developments that merit notification.
- The inability of the Researcher to continue in that role, or any other change in research personnel involved in the project.
- Any expiry of the insurance coverage provided with respect to sponsored clinical trials and proof of re-insurance.
- A delay of more than 12 months in the commencement of the project, and,



*S. V. Sharma*  
PRINCIPAL

  
Registrar  
Shri Yashwantrao Chavan Pratishthan  
(Department of Engg. & Tech.)  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





## Shobhit University

Kunwar Shekhar Vijendra Ayurved Medical College and Research Centre

(Approved by CCIM Ministry of Ayurveda, Yoga & Naturopathy, Unani, Siddha & Homoeopathy, Govt. of India)

Adash Institutional Area, Bahadurganj, Mangalpur, Dist. Saharanpur-247 311 (U.P.) Pratech, India  
T: 01331 236306 F: 01331 235901 E: info@shobhituniversity.org, info@shobhituniversity.in

- Termination or closure of the project

Additionally, the Principal Researcher is required to submit

- An Annual Progress report has to be submitted on completion of the project whichever is applicable (forms to be provided).

The Ethics Committee may conduct an audit at any time

### List of the Approved documents

S.No.	Documents	No. of Copies
1.	Study Protocol	01
2.	Informed Consent (English)	01
3.	Informed Consent (Hindi)	01
4.	CV of Research Scholar	01
5.	CV of Mentor	01
6.	Undertaking of Mentor	01
7.	Behavioral Analysis Form	01
8.	Cognitive Analysis Form	01

The above mentioned documents were examined and discussed in ethical committee meeting held on **November 7, 2017**. After consideration, the committee has cleared the above documents and given its approval for the same.

List of the ethical committee member, who attended the meeting held on **November 7, 2017** at which the submitted documents were discussed

1 Prof (Dr.) S. K. Pathak (Chairman) — *S.K. Pathak*

2 Dr. Munna Kumar — *Munna Kumar*

3 Dr. Amit Chaudhary — *Amit Chaudhary*

4 Dr. Chitranshu Saxena — *Chitranshu Saxena*

5 Dr. Meenakshi Chaudhary — *Meenakshi Chaudhary*



*[Signature]*  
Registrar

Shobhit University  
Faculty of Engg. & Tech.  
(Kunwar Shekhar Vijendra University)  
Mridul, Moolpuram, Meerut-250110





# Natural Sciences Trust Regd.

H.O. : - 148/4 Jagriti Vihar, Meerut-250005, U.P.

Mobile : - 09411823914, 09358414481

https://www.instagram.com/nsttrust/ Facebook: @natsciencetrustindia

## Award for Contributing in

### "Indian Culture and Heritage" (2019-20)

to

**Shobhit Institute of Engineering and Technology  
(Deemed to be University), Meerut, Uttar Pradesh.**

*[Handwritten mark]*

*[Handwritten Signature]*  
Signature 1/08/18  
Natural Science Trust  
Meerut (U.P.) India

Founder and Chairman

*[Handwritten Signature]*  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Jagriti Vihar, Meerut-250113





shiva sharma &lt;shiva.sharma98@gmail.com&gt;

## Reg. short term courses in medical electronics .

3 messages

DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 Reply-To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 To: Shiva Sharma <shiva.sharma98@gmail.com>  
 Cc: Anil Grover <agrovar@hotmail.com>

Wed, Dec 20, 2017 at 10:02 AM

Mam,

kindly refer our telephonic discussion regarding the above cited subject, I like to remind to pl. send the dates in January 18 & also the nos. of boys & girls who will attend the programme so that necessary arrangements in hostel may be made at our end. I wish very happy & prosperous new year to you .

Regards.  
 D.K. Ojha  
 Deputy Director  
 ATI-EPI, MSDE ,  
 Govt. of India  
 Dehradun

shiva sharma <shiva.sharma98@gmail.com>  
 To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>

Thu, Dec 21, 2017 at 1:35 PM

Respected Sir,

We are confirming the one week training program from 15th January 2018 in cardiac technology module. There are 12 students ready to attend the training program. I will send the list of the student with their training letter on same day. Kindly confirm and also send the detail fee structure with accommodation charges.

Regards  
 Shiva Sharma  
 Shobhit University, Meerut  
 [Quoted text hidden]

DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 Reply-To: DIGVIJOY OJHA <dko.sairam@yahoo.co.in>  
 To: shiva sharma <shiva.sharma98@gmail.com>

Thu, Dec 21, 2017 at 2:50 PM

Mam,

Training program in cardiology lab for 12 students from 15 Jan 2018 is confirmed.  
 Fee structure is as given below -  
 Course fee -----Rs.1000/- trainee/week  
 Registration fee ---Rs.100/-trainee/week  
 Gymkhana fee -----Rs.10/-trainee/week  
 Food charges are extra & is payable to canteen operator directly by the trainee.

Regards.  
 D.K. Ojha  
 Deputy Director



*[Handwritten Signature]*  
 Registrar  
 Shobhit University of Engg. & Tech.  
 (Shobhit University)  
 NH-5, Meerut-250110



# SUN BEAM ACADEMY


New Karhera Colony, Gali No. 23, Near Hindon Air Force,  
Mohan Nagar, Ghaziabad, Tel. : 9971715521, 9971235710

Ref. No.115

Dated 27/03/2018

We are happy to inform you that Mr. Rahul Tomar  
faculty of B.Ed. (Education Department), Shobhit University,  
Ment is associated with us to promote the Teaching  
learning practice of B.Ed. students. This collaboration  
is Beneficial for both the parties in term of  
Internship of B.Ed. students and Education of our  
School students.

Principal  
PRINCIPAL

  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-30, Meerut-250112





Date: 12-01-2018

To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology ( Deemed to be University, Meerut on 09-01-2018 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	ABBAS ALAM	LLB
2.	AKSHAT	LLB
3.	ARTI	LLB
4.	AYUB KHAN MD	LLB
5.	EKLAVYA DWIVEDI	LLB
6.	PIYUSH SHARMA	LLB
7.	SACHIN KUMAR BILTORIA	LLB
8.	SHIBU TYAGI	LLB
9.	SHIKHAR GUPTA	LLB
10.	SUMAN	LLB
11.	VINITA	LLB
12.	PRITAM SINGH	LLB

We request you to please communicate to the selected students to join my office at Employment Exchange Road, Civil Compound ,District and Session Court, Meerut on or before 27-07-2018 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

*Deo Prakash*  
Advocate  
Employment Exchange Road  
Civil Court Compound , District and Session Court, Meerut

*Deo Prakash*  
Advocate  
UP Bar Council E.N.67

*[Signature]*

Shobhit Institute of Engg. & Tech.  
(Deemed to be University)

Meerut-250111





**To Whomsoever It May Concern**

This is to certify that Mr. Aniket Kumar, Assistant Professor, Shobhit University was associated as a consultant on a collaborative project with our company for a period of 1 year (2017-18). He has a wide knowledge in computer application and programming and having good exposure in academics & research.

He has performed his duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish him all success in his future endeavours.

A handwritten signature in blue ink, appearing to read "Aniket Kumar".

Director

A handwritten signature in blue ink, appearing to read "Aniket Kumar", positioned above an official stamp. The stamp is circular and contains the following text: "Aniket Kumar", "Assistant Professor of Engg. &amp; Tech.", "(Department of Mechanical Engineering)", "Shobhit University", "New Campus, Yamuna Nagar, Meerut-250114".

---

BREACHTAPE PRIVATE LIMITED

7, Square House, 3<sup>rd</sup> Floor, Krishna Nagar, Opp. B4/148B, Safdarjung Enclave, New Delhi 110029

E: info@breachtape.com W: www.brechtape.com

CIN: U72900DL2020PTC373864 GSTIN: 07AAJCB4650K1ZH, MSME UDYAM No: UDYAM-DL-09-0001839

Ref : SU/RO/ADS/5(BI)/2019

Dated: 04<sup>th</sup> April, 2019

To,  
**Mr. Ajay Francis Christopher (M-8146221522)**  
S/o Sh. Christopher Ramzani  
135-A Ground floor Aster Homes  
Near Holy Hospital Prime City Landran Road Kharrar  
[ajbees@rediffmail.com](mailto:ajbees@rediffmail.com)

**Sub: URDC Result – Confirmation of Ph.D. Registration**

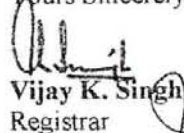
**Dear Student,**

- Reference our email dated 18<sup>th</sup> March, 2019 on the subject regarding holding of URDC meeting on 23<sup>rd</sup> March, 2019.
- URDC, in its meeting held on 23<sup>rd</sup> March, 2019 has approved the following :-

Synopsis	: Approved.
Registration	: Confirmed
Enrolment No	: 2018010001
Registration No	: SU/Ph.D/P.T./BI/18/01
Date of Registration	: 29 <sup>th</sup> August, 2018
Subject	: Bioinformatics
Approved Research Topic	: Micronome Construction by Using Validated Anticancer miRNAs in Oral Squamous Cell Cancer
Supervisor(s)	: Dr. Maya Datt Joshi, Assoc. Professor Dept. of BT, School of Biological Engg. & Life Sciences Shobhit Deemed University, Meerut Dr. Praveen Bansal, Co-supervisor University Center of Excellence in Research , BFUHS, Faridkot (Punjab)
School /Department	: School of Biological Engg. & Life Sciences(Dept. of BM/BI)


- You are advised to carry out your research work and forward six monthly progress report in accordance with the Ph.D. Ordinance-2016 for our further necessary action. Proforma of progress report is enclosed herewith.

Yours Sincerely,

  
**Vijay K. Singh**  
Registrar

Copy to :

- Dr. Maya Datt Joshi, Assoc. Professor**  
Dept. of BT, School of Biological Engg. & Life Sciences  
Shobhit Deemed University, Meerut
- Dr. Praveen Bansal, Co-supervisor**  
University Center of Excellence in Research ,  
BFUHS, Faridkot (Punjab)
- Coordinator, Dept. Concerned.
- Finance Officer
- Library
- Student's File

  
Registrar  
Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
NH-38, Meerut-250110

for info, please





## COMPARATIVE EVALUATION OF *CHENOPODIUM ALBUM* WEED ON ANTIOXIDANT AND ANTIFUNGAL ACTIVITY AGAINST FUNGAL PHYTOPATHOGENS

Alka Sahrawat<sup>1</sup>, Jyoti Sharma<sup>2</sup>, Subhash Kumar Jawa<sup>3\*</sup> and Preeti Verma<sup>4</sup>

<sup>1</sup>School of Biological Engineering and Life Science, Department of Biotechnology, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut (UP), India

<sup>2</sup>School of Basic & Applied Science, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut (UP), India

<sup>3</sup>Department of Agricultural Economics and Extension, Lovely Professional University, Jalandhar (Punjab), India

<sup>4</sup>Defense Research & Development organization (DRDO), Chandigarh, India

### Abstract

The various name weeds belongs to the family *Chenopodiaceae*. have so many beneficial values. It is a very fast growing and annually weeds. Respond against many microbes but most effective against fungal phytopathogens. Not only a single part, whole part (Seeds, Stem, Leaves & Root also). The phytochemical analysis showed the weed contains carbohydrates proteins, amino acids, terpenoids, alkaloids, saponins, tannins, flavonoids, steroids, fixed oils and pharmacological investigations revealed that *Chenopodium album* possessed antioxidant, reproductive, cytotoxic, antidiabetic and gastrointestinal effects. The current research will describe the antifungal and antioxidant effects of different parts of *Chenopodium album* weeds. Different extract at different concentrations show the maximum and minimum effectiveness against fungal phytopathogens causes several diseases. On the behalf of results, we conclude that in place of fungicides, we can use *Chenopodium* extract at lower concentrations.

**Keywords:** *Chenopodium album*, Antioxidant activity, Antifungal activity and Phytopathogens.


### Introduction

*Chenopodium album* (L.) member of the family *Chenopodiaceae* (Goosefoot family) belongs to the genus *Chenopodium*. It is also known as fat-hen, Bathua, Vastukah, Chakvit. *C. album* is a fast-growing, vegetable weedy annual plant. This weedy plant has a mixture of medicinal applications. It is a polymorphous, erect herb. It is 3.5m in height and found wild in altitude of 4,700 m. The herb is a common weed in both seasons summer and winter in waste places and commonly grow in the field of wheat, barley, mustard and gram, also reduce their acquiesce. The gentle shoots are use to eat as a raw in salad or with gravy; they are also cooked as a vegetable or used as an ingredient in breakfast material. The leaves eaten as a vegetable either steamed or cooked like spinach, but in self-control because of high level of oxalic acid (Johnson *et al.*, 1995), whereas in Europe and North America, it is commonly regard as a weed in places such as potato fields (Grubben and Denton, 2004). The dried out leaves of *Chenopodium* can also be built-in in a hodgepodge of conventional food items as it can lock up the dietetic worth of the work of art as well as add multiplicity in the diet (Singh *et al.*, 2007). Plants foreigner in Eastern Asia is integrated under *C. album* but often be at variation from

European specimen (Germplasm Resources). *C. album* is very well-to-do in healthy nutrients and minerals also Due to its high nutritive importance and medicinal properties; *C. album* is used in the grounding of many long-established medicines. In India, Bathua is used as a stuff to prepare many edible items such as sag, chapati and shake.

From ancients, time-honored medicinal plants have been notorious to possess sundry biological commotion as antimicrobial, analgesics, anticancer, antipyrexial, and antihypertensive activity and an important source of many biological active compounds (Inatani *et al.*, 1996; Webster *et al.*, 2008). The prosperous content of antifungal substances in plants is being worn biopesticide since up to the beginning of human civilization. Antifungal possessions of plant and plant products emerge evidently every day. Antifungal substances which are obtained from plants have no side outcome against environment thus, bountiful a significant advantage. Nowadays, a profitable pesticide used against plant diseases is originated to cause smash up to environment and human health. The most interesting area of relevance for medicinal plant extracts is the inhibition of augmentation and reduction in numbers of the pathogens (Okolo *et al.*, 1995).

\*Corresponding author Email: subhash.23781@lpu.co.in

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-30, Meerut, U.P., Meerut-250114



# Smt. Vimla Devi Educational & Welfare Trust

(Reg. under the Registrar Naktur, Saharanpur, UP Reg No.31)

Moh. - Choudhariyan, Near Di  
Bangla, Saharanpur Road, Nak  
Dist- Saharanpur, (UP). 2473

In  
Mob. +91-97587492  
+91-88599610

E-Mail- vinod2911@yahoo.co

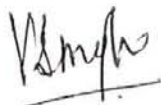
Date: 10.10.2018

## Appreciation Letter for Collaboration

With due respect this is to be stated that we are very thankful for organizing a training program on Agri Start-up Idea Sharing with Farmers in collaboration with Smt. Vimla Devi Educational & Welfare Trust and Dr. Snigdha Tiwari & Dr. Alpana Joshi, Shobhit University, Meerut on August 10, 2018.

We appreciate and acknowledge for the help and efforts for conducting a successful program.

We look forward to an active role in this collaboration.



Smt. Vimla Devi  
Educational & Welfare Trust

  
Registrar  
Shobhit University  
(Coll. of Engg. & Tech)  
MH-58, Meerpuram, Meerut-250110





# IDEAL INTERNATIONAL ACADEMY

(Under the Aegis of the Aditya child foundation trust)

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Co-education English Medium, Residential School

From - Nur. to VIII<sup>th</sup>

Address.- SAMHO BEGUSARAI MAIN ROAD, MATIHANI  
(BEHIND, D.K LIGHT), Mob.- 8521812057/58

To

Dr. Anita Rathore

Assistant Professor

Shobhit Institute of Engineering and Technology

(Deemed to be University), Meerut

**Subject: Collaboration for Yoga and Physical Activity**

**Dear Dr. Rathore**

As per our discussion, We are informing that you are allotted as an external expert to provide the yoga skills to our students. This collaboration for student promotion and education would effect from 2018-2019. We are highly thankful for your efforts.

Thanks and Regards

*Rajesh Kumar*  
21/03/2018

Principal

IDEAL INTERNATIONAL ACADEMY  
MATIHANI, BEGUSARAI



*Rajesh Kumar*  
Principal

Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NPLS, Meerut-250113

Reg. No. - MEE06995

Juhi Tyagi  
(President)



# YATHARTH KE SARTHI

## Social Welfare Society

Ref. No. 416.....

Date 10.9.2018.....

We Yatharth Ke Sarthi: A Social Welfare Society highly thankful to Dr. Anita Rathore for helping us in organizing the collaborating event "Yoga for Health to maintain the Healthy Life Style" on date 10/09/2018 at Shobhit University, Meerut. We wishes such other activities in future also.

*Yogendra Tyagi*

President



*P. K.*  
Shobhit University of Engg. & Tech.  
(Deemed to be University)  
NH-24, Meerut-250113

9720262626, 7017658459

yatharthkesarthi@gmail.com



73/2, Ram Bagh Colony Nauchandi Ground, Meerut



# SWAMI SATYANAND SARASWATI VAANI SCHOOL AND RESEARCH CENTRE

FOR THE DEAF CHILDREN

P-1, Pallavpuram Phase-II, Meerut Tel. (0121) 2577083

(Run By FRIENDS OF HANDICAPPED-INDIA TRUST)

245/6, THAPAR NAGAR, MEERUT TEL.: 2420882 E-mail : npjaini@yahoo.com

2/8/18

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IDAS. Dy. CDA (Retd.)

### SECRETARY

Kapil Agarwal  
Industrialist

### VICE CHAIRMAN

S. P. Jain  
A.E. Civil (Retd.)

### JOINT SECRETARIES

Kuldeep Goyal  
Industrialist

Suman Jain  
MES Contractor

### TREASURER

Rajendra Kr. Singhal  
Industrialist

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Dr. Ajay Kumar Jain  
Child Specialist

Dharamvir Arora  
IDAS (Retd.)

Ashok Gupta  
Industrialist

Daman Vats  
Industrialist

## Appreciation Letter for Collaboration

The Swami Satyanand Saraswati Vaani School and Research Centre, Meerut and Dr. Anita Rathore & Ms. Neha Rani, Assistant Professor, Shobhit University, Meeruthas collaboratively organized a Yoga Week for our school students and the local residents on Aug02, 2018.

We appreciate the help and efforts in conducting such activities.

We look forward to an active role in this collaboration.

Regards

Principal


Principal  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meeruthas, Meerut-250115





श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नू सिंह  
एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह  
Member: People for Animal, New Delhi  
& Social Activist RTI  
mannusinghadvocate@gmail.com, 

क्रमांक ..18/13.....

दिनांक...23.8.2018

### Appreciation Letter for Collaboration

The Inder Singh Maithana, Dulhera, Meerut and Dr. Rashmi Nagpal and Mohd. Imran from Shobhit University, Meerut has collaboratively organized an awareness program on Legal Aid Clinical on August 23, 2018.

We acknowledged the efforts in conducting such activities and look forward to an active role in this collaboration.



Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to-Be University)  
NH-58, Modipuram, Meerut-250110



प्रेषक:-

विद्या भवति विनयः

337473926

प्रधानाचार्य, प्रबन्धक

संख्या

# राजवंश उच्चतर माध्यमिक विद्यालय

ग्राम रसूलपुर-कैलौरा, खतौली (मु० नगर)

विषय:-

पत्रांक ५०७

दिनांक: 10/10/18

मुझे यह बताते हुए खुशी का अनुभव हो रहा है कि शोभित विश्वविद्यालय मेरठ के डा० ज्योति शर्मा ने हमारे विद्यालय के छात्रों को परीक्षा में हतोत्साहित होकर मनोवैज्ञानिक रंगों से ग्रस्त हो रहे हैं। इस मामले से जैले निपटे / या जैसे बाहर आये। इस विषय से जानकारी प्रदान की। विश्वविद्यालय के इस प्रयास से छात्रों का उत्साह घटेगा। विश्वविद्यालय से आने वाले वर्षों में भी हमारे विद्यालय के सहयोग एवं सहभा में इस तरह के कार्यक्रम का आयोजन किया जाएगा, विश्वविद्यालय को इस सहयोग के लिए हम विश्वविद्यालय का आभार व्यक्त करते हैं।

प्रधानाचार्य

राजवंश उच्चतर माध्यमिक विद्यालय  
रसूलपुर कैलौरा खतौली (मु० नगर)



Registrar

West Bengal Institute of Engg. & Tech.  
(University)  
Kharagpur, West Bengal, India  
Kharagpur, Meerut-250119



Shiva Sharma <shiva@shobhituniversity.ac.in>

### Invite for Blood donation camp

3 messages

vijay <vijay.singh@shobhituniversity.ac.in>

Tue, Jan 29, 2019 at 2:33 PM

To: nccgphqmr@gmail.com

Cc: "Dr. Kaushiki Mukherjee" <kaushiki.mukherjee@shobhituniversity.ac.in>, shiva@shobhituniversity.ac.in

Sir:

Greetings!

Blood donation is the most important act of human mankind that saves a human live in the moment of medical emergency.

With this noble objective, we organize blood camp every year on February 8<sup>th</sup> to commemorate the birth anniversary of our **Inspirer "Babu Vijendra Kumar Ji "**.

This year too, we are honored to get support of Red Cross Society, New Delhi who has kindly consented to provide technical support in organizing of the camp.

We are privileged to invite your team to participate in our camp for voluntary blood donation as per schedule below:

**Venue: Shobhit Deemed University, NH-58, Modipuram, Meerut**

**Time: 9:00 A.M. onwards**

May I request you to kindly share this info among the potential voluntary donors and encourage them to participate in large number.

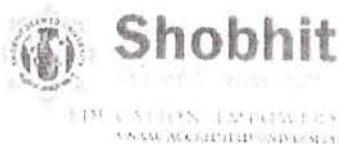
For any additional support please get in touch with our Dr. Kaushiki Mukherjee @ 9811815188.

*Thank you very much for your kind support to a noble cause.*

With good wishes!

Vijay K. Singh

Registrar



*Vijay K. Singh*  
Registrar  
Shobhit  
University  
NH-58, Modipuram,  
Meerut-250114

Institute of Engineering & Technology  
Shobhit University  
NH-58, Modipuram, Meerut-250114

NH-58|Modipuram|Meerut-250 110|India

श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नू सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,



क्रमांक .....५९७.....

दिनांक...27.08.2018

प्रमाणित किया जाता है कि डॉ मनीषा रस्तोगी, सहायक प्राध्यापक, शोभित विश्वविद्यालय, मेरठ ने दिनांक 27/08/2018 को ग्राम प्रधान मैथाना के सहयोग से ग्रामीणों के लिए खोई से सक्रिय कार्बन के उत्पादन पर एक प्रशिक्षण कार्यक्रम आयोजित किया है।

हम उनके बहुत आभारी हैं।



  
Principal  
State Institute of Engg. & Tech.  
(University)  
NH-38, Modipuram, Meerut-250113



Mount Litera  
Zee School  
Meerut  
Great School. Great Future




Ref. No.....4.62.....

Date: ...27.8.18.....

We are proudly thanking to Dr. Manisha Rastogi, Beena Rawat and Shiva Sharma to organize a collaborative workshop with us at Shobhit University, Meerut on Agricultural waste to Commercial Activated Carbon for our students on Dated: 27 August 2018. We highly appreciated the efforts of the all three professors.

Thanking you

  
Mr. Amit Kohli  
(Principal)  
MLZS, Meerut

Principal  
MOUNT LITERA ZEE SCHOOL  
NH-58, Roorkee Road,  
Modipuram, Meerut 250 110  
Phone - 0121-2579951  
School Code : 60760  
CBSC Aff. No.: 2131804



NH-58, Roorkee Road ;Behind potato research centre, Modipuram, Meerut, 250110 (Uttar Pradesh), India  
[www.mountliteralschool.org](http://www.mountliteralschool.org) | [mountliteralschool@gmail.com](mailto:mountliteralschool@gmail.com)  
Welcome No : +91-121-2579951 | For Admission : +91 9760420251 | For Transport : +91 8265957035

  
Registrar  
Shobhit  
10-  
F.H.

Shobhit  
10-  
F.H.

250110

श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नु सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,



क्रमांक 22.....

**Appreciation Letter for Collaboration**

दिनांक 15.9.2018..

The Inder Singh Maithana, Dulhera, Meerut and Dr. ManishaRastogi, Ms. BeenaRawat, & Ms. Shiva Sharma from Shobhit University, Meerut has collaboratively organized a training program on Digital India for Farmers to Use Agri Apps for Fertilizer Calculation on Sept 15, 2018.

We acknowledged the efforts in conducting such activities and look forward to an active role in this collaboration.

अनिता



Registrar  
Shobhit University, Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut-250112

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**Review of Article received for Publication in NICE Journal of Business**

---

NICE Journal <editornjb@gmail.com>  
To: Arun Kumar <arun@shuchita.com>

Tue, Apr 2, 2019 at 12:25 PM

Dear Dr. Arun Kumar,

Thank you for agreeing to review the article titled, " Developing the Usage Model of Emojis in Social Media Marketing". Please find the same along with the proforma for reviewers report. You are requested to send your report within 3 days.

Please acknowledge.

With best wishes

--

**Prof. D.P.S. Verma**

Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110


Mobile no.09818134500


**Dr. Neha Yajurvedi**

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 9454838216  
7617505013


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**2 attachments**

 **Emoji research paper.docx**  
77K

 **Reviewer's format.docx**  
12K



  
Shobhit University of Engg. & Tech.  
(Dr. Neha Yajurvedi)  
NH Modipuram, Meerut-250110

## OUR BOARD OF REFEREES

1. Prof. Anoop Swarup, Chairperson, Global Knowledge Alliance, Melbourne (Australia)
2. Dr. Ajay Kumar, Department of Management, Central University of Haryana, Mahendergarh
3. Prof. Arun Kumar, MONIRBA, University of Allahabad, Allahabad
4. Prof. C. P. Gupta, Department of Finance and Business Economics, South Campus, University of Delhi, New Delhi.
5. Prof. Furqan Qamar, Centre for Management Studies, Jamia Millia Islamia, New Delhi
6. Prof. G. S. Gupta, Former Professor, Indian Institute of Management (IIM-A), Ahmedabad
7. Prof. Garima Gupta, Faculty of Management Studies, University of Delhi, Delhi
8. Prof. Hamendra K. Dangi, Department of Commerce, Faculty of Commerce and Business, University of Delhi, Delhi
9. Prof. H. C. Purohit, Head, Department of Management Studies, Doon University, Dehradun
10. Prof. Hardeep Chahal, Department of Commerce, University of Jammu, Jammu
11. Dr. Komal Nagar, The Business School, University of Jammu, Jammu
12. Prof. Nawal Kishor, Indira Gandhi National Open University, New Delhi
13. Prof. R. C. Dangwal, Former Dean, School of Commerce, HNB Garhwal Central University, Srinagar (Garhwal)
14. Prof. R. D. Sharma, Former Vice-Chancellor, University of Jammu, Jammu
15. Prof. Ram Singh, Delhi School of Economics, University of Delhi, Delhi
16. Prof. Ramesh Chander Dalal, Chairman, University Business School, Kurukshetra University, Kurukshetra
17. Dr. Ruchi Gupta, Associate Professor, Shaheed Bhagat Singh, College, University of Delhi, New Delhi
18. Prof. Sanjay Mishra, School of Business, University of Kansas, Kansas (U.S.A.)
19. Prof. Shweta Anand, Dean, School of Management, Gautam Buddha University, Greater Noida
20. Prof. Sunil Kumar Gupta, Indira Gandhi National Open University, New Delhi
21. Prof. Surender Mor, Chairman, Department of Economics, BPS Women University, Khanpur, Sonapat (Haryana)

*Signature*  
Registrar

Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-10, Meerut-250110





Reference No: 2020/93

Date: 13/03/2019

**To Whomsoever It May Concern**


This is to appreciate to Prof. (Dr.) Niraj Singhal from Shobhit University for effectively carrying out consultancy collaborative project titled Entrepreneurship Development Programs at Studenting Era, Noida along with our team for a period of 1 year (2018-19).

He has performed his duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish him all success in his future endeavours.

  
Director



  
Director  
Shobhit University  
(Department of Engg. & Techn.  
University)  
Noida (UP-201301)  
Regd. Office Address: FF-4, Hansraj Complex, Sector-31, Noida-201301  
Corporate Office Address: 330, Tower B, DLF Prime Towers, F79-80 Okhla Phase-I, New Delhi-110020  
Company Registration No.: U74999UP2016PTC085761

Regd. Office Address: FF-4, Hansraj Complex, Sector-31, Noida-201301  
Corporate Office Address: 330, Tower B, DLF Prime Towers, F79-80 Okhla Phase-I, New Delhi-110020  
Company Registration No.: U74999UP2016PTC085761

# ए० एस० इन्टर कालिज

मवाना (मेरठ)

क्रमांक.....

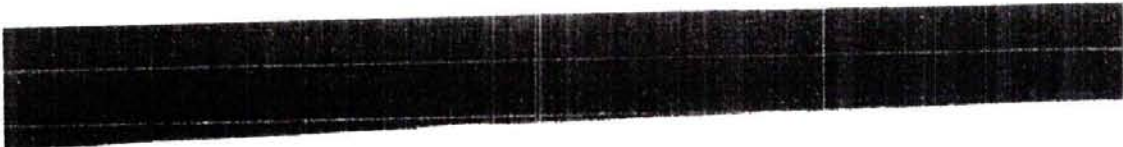
दिनांक 12/11/18.

मुझे यह बताने का बहुत बड़ा स्वप्न है कि हमारे विद्यालय के छात्रों को शोभित विश्वविद्यालय के एक मनोवैज्ञानिक शिक्षिका डा० पूनम देव दत्त ने छात्रों को मनोवैज्ञानिक से सम्बन्धित समस्याओं का युवा पीढ़ी में आने वाले अवसरों के बारे में अवगत कराया डा० पूनम ने छात्रों को इस समस्या से कैसे बाहर आयेगे इस विषय में जानकारी प्रदान किया। ऑनलाइन लेखों में भी विश्वविद्यालय ने इस तरह का कार्यक्रम हमारे विद्यालय के साथ आयोजित करेगा। इस प्रयास के लिए हम शोभित विश्वविद्यालय का आभार प्रकट करते हैं।

f.c.

Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
Noida, Uttar Pradesh - 201113





To

Dr. Poonam Devdutt  
counselor  
Shobhit university  
Meerut.

Sub: Invitation letter for Chief Guest in National Seminar

Dear Madam

Greetings of the Day!

We are writing this letter to request your honourable presence in gracing our National Seminar "Impact of mindfulness program for reducing stress in Nurses" on 17<sup>th</sup> May 2019 at 10:30 a.m. We would be most honoured, if you can be our semina's Chief Guest and present a short speech in conjunction to the seminar.

We look forward to your positive confirmation of our invitation to this annual technical fest

Thanking you,

Yours sincerely

Mrs. Asha Yadav

Principal, College of Nursing,  
I.I.M.T University  
Meerut

Registrar  
College of Engg. & Tech  
Shobhit University  
Meerut, U.P. Pin: Meerut-230110

"O" Pocket, Ganga Nagar, Mawana Road, Meerut,

Registrar  
Shobhit Institute of Engg. & Tech



Ministry of State for Scientific Research  
 Academy of Scientific Research & Technology  
 Informatics Sector  
 National Center for Information and Documentation  
 ( NIDOC )



وزارة البحث العلمي  
 أكاديمية البحث العلمي والتكنولوجيا  
 قطاع المعلوماتية  
 المركز القومي للإعلام والتوثيق

Egyptian Journal of Radiation Sciences and Applications  
 Certificate of Reviewing

Awarded to: **Dr. R. K Jain**  
 For participating as reviewer of 2 submissions in the peer review process for Egyptian Journal of Radiation Sciences and Applications.

Prof. Dr. Mona A. El-Ghazaly  
 Editor-in-Chief of Egyptian Journal of Radiation Sciences and Applications



Al-Bhoos St., Dokki, Cairo, Egypt  
 Tel /Fax (202) 3371696  
[http://ejrsa.journals.egb.eg/reviewer/yr/s=2017&\\_edicion=qet&col\\_year=-1&search=View](http://ejrsa.journals.egb.eg/reviewer/yr/s=2017&_edicion=qet&col_year=-1&search=View)

شارع البحوث - الدقي - القاهرة - مصر  
 ت . فاكس : ٣٣٧١٦٩٦ (٢٠٢)

*[Handwritten signature]*

Secretary  
 School of Enng. & Tech.  
 (University)  
 NIDOC (Tel: 3371696 - Fax: 3371696 - E-mail: nidoct@egb.eg)

To be filled by the External Supervisor or Co-supervisor (if applicable)

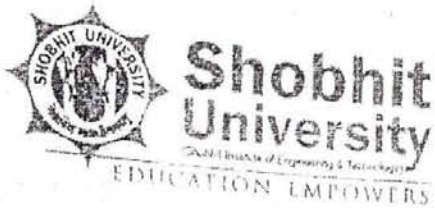
I agree to supervise the work of Mr./Ms. Utkarsh Shukla.....(Name of the candidate). A present I am supervising the work of nine Research Scholars and out of this six Research Scholars have completed two years from the date of their registration. My bio-data is given below (please give the list of Research scholars who are at present working under you)

1. Name Rajiv Srivastava
2. Date of Birth 18/02/1976
3. Designation Director
4. Institute/University/Department ScholarTech Education (Company)
5. Address
  - (a) Permanent 43 H/6, Phase-I, Dayanand Vihar  
Kalyanpur Kanpur  
P.O. Kalyanpur Distt. Kanpur
  - (b) Local Same as above
6. Educational Qualification Ph.D., IIT Kanpur
7. Experience (in years)
  - (d) Research - 14 Years.
  - (e) Teaching - 5 Years
  - (f) No. of students already guided for Ph.D. - 7 (Completed)
8. Area of specialization - Optical Communication (Computer Network)
9. Number of Publications/Books etc. - 53/1
10. Any other information - NA

Dated 07/03/2019

  
Signature  
Registrar  
ScholarTech Education (Company)  
Noida (U.P.) Pin-201113





Shobhit University  
Established under 3 of UGC Act, 1956  
NH-58, Modipuram,  
Meerut 250110, INDIA  
T: 0121 2575091; F: 0121 2575724  
E: mail@shobhituniversity.ac.in  
U: www.shobhituniversity.ac.in

Ref: SDU/RO/ADM/NHRC-2018-02

Dated: November 20, 2018

The Joint Secretary,  
National Human Rights Commission,  
Manav Adhikar Bhavan, C-Block,  
GPO Complex, INA, New Delhi -110023

Subject: One Day Training Program on Human Rights- regarding

Sir,

Many thanks for considering and approving our proposal. We are sure that the program shall be immensely useful in the promotion of Human Rights.

The program has been proposed on Saturday, December 22<sup>nd</sup>, 2018. In this regard, please find attached the following for your kind perusal.

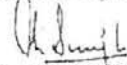
1. Program Schedule - Annexure-I
2. ECS mandate form - Annexure-II
3. Formal Invitation

As required, we shall ensure compliance as directed with regard to budget & other details.

For any clarifications/assistance, your office may get in touch with the undersigned at 9871733022 mail id [registrar@shobhituniversity.ac.in](mailto:registrar@shobhituniversity.ac.in) or our program coordinator - Prof. & Dr. Rashmi Nagpal (Dean - School of Law & Constitutional Studies) mail id [rashmi.nagpal@shobhituniversity.ac.in](mailto:rashmi.nagpal@shobhituniversity.ac.in)

Thanking you and looking forward to your patronage in promotion of human rights.

With best regards,

  
Vijay Kumar Singh  
Registrar



 Registrar  
 Registrar  
Shobhit University (Deemed to be University)  
NH-58, Modipuram, Meerut-250110  
Shobhit Institute of Engineering & Technology (Deemed to be University)  
NH-58, Modipuram, Meerut-250110



A NAAC Accredited Institution

Scanned by CamScanner

FORM GFR 19-A

(See Government of India's Decision (1) below Rule 150)

FORM OF UTILISATION CERTIFICATE

Sl. No.	Letter No. & Date	Amount
1	F.No. 23011/S5/2018-19/Tec	50000/-

1. Certified that out of Rs. 50000 grants-in-aid sanctioned during the year 2018-2019 under One Day Basic Training Program on Human Rights under this Letter No. given in the margin, a sum of Rs. 50000/-only has been utilised for which it was sanctioned and that the balance of Rs. Nil remaining unutilized as on 22<sup>nd</sup> December 2018.
2. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly / are being fulfilled and that I have exercised the following check to see that the money was actually utilised for the purpose for which it was sanctioned.

Kinds of Checks exercised.

01. Original Bills/expenditure vouchers has been seen.
02. Bills/vouchers have been certified by Dean and duly passed by the Registrar.
03. — Entries in Cash Book have not been made available.
04. —
05. —



CA For GULATI SHARMA & ASSOCIATES  
Chartered Accountants  
Signature (CA)  
Designation (C.A. SANDEEP GULATI-Partner)  
M.No. 079766  
Date : 12.01.2019

Counter Signature of Registrar of the Organization with Seal

Registrar  
Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
(Deemed to be University)  
NH-58, Meerut-250110  
NH-58, Meerut-250110



श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नु सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI

mannusinghadvocate@gmail.com,



क्रमांक 502

दिनांक 26/06/19

मैं अनिता जाटव प्रधान ग्राम पंचायत मैथना शीशवा  
विश्वविद्यालय का आगाह व्यक्त करती हूँ कि उद्देश्य  
ग्राम मैथना की महिलाओं को सशक्त व जागरूक करने  
के लिए मैरल प्रयास किये हैं। हम उम्मीद है प्रयास  
आगामी वर्ष 2019-20 के लिए भी चलाते हैं। हम उम्मीद  
प्रार्थना करते हैं कि वे स्वयं सहायता समूह बनने के लिए  
डा. सदीप कुमार स्वयं डा. जनीषा रस्तोगी को दिशा निर्देश  
के लिए निपुण कर।

आगाह



अनिता  
ग्राम पंचायत मैथना  
क्षेत्र पंचायत दौराला (मेरठ)

SH

Shri. Anil Kumar Singh, I.E.T. & Tech.  
(Director)  
NH-24, Meerut-250111



श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्जू सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,



क्रमांक ..1.07.....

दिनांक...13/10/2018

हमें यह बताते हुए बहुत खुशी हो रही है कि डॉ संदीप कुमार प्रोफेसर शोभित विश्वविद्यालय, मेरठ ने दिनांक 13/10/2018 को अवधारणात्मक योग खेती: राष्ट्रीय समृद्धि की ओर एक कदम पर किसानों और छात्रों के बीच एक खुला विचार-विमर्श किया। किसानों और राष्ट्र के विकास के लिए इस प्रयास की बहुत सराहना की जाती है।

हम उनके बहुत आभारी हैं।

अनिता



शुभिका  
Shobhika  
Shobhika  
(Doc)  
NH-82, ... 250111

≡≡≡ SANRA ≡≡≡  
**PUBLIC SCHOOL**

(AFFILIATED TO STATE BOARD OF EDUCATION)  
BURGA COLONY CHOPELA, GARHMUKTESHWAR, HAPUR

Ref. No 18/138

Date: 5/10/2018

**Letter of Collaboration**

The Sanra Public School appreciates the services and collaborations rendered by Dr. Sandeep Kumar, Professor, Department of Biotechnology, Shobhit University, Meerut. We place on record the help and efforts in conducting various awareness programs for public on Health and Hygiene for Children. The student performances and plays in the vicinity of school giving wider coverage to the awareness program.

This collaboration would be effective for one year from today onwards.

Thank you

*WJ*  
*Adv. V. S. / 5/10/2018*

~~The Principal~~  
≡≡≡ SANRA ≡≡≡  
**PUBLIC SCHOOL**  
BURGA COLONY, GARH



*he*  
Registrar  
Shobhit University  
(Department of Engg. & Tech  
(Deemed to be University)  
NH-58, Meerut, Uttar Pradesh-250112



शोभित विश्वविद्यालय  
 एम्प्लॉयर्स एजुकेशन सोसाइटी  
 प्रभाग  
 जय प्रकाश नगर, मेरठ  
 उत्तर प्रदेश 20136

जय किसान  
 शिक्षण संस्थान  
 मोबा 9759423395  
 9958590730

क्रमांक - 18147

29-9-2018

प्रमाणित किया जाता है कि दिनांक 29/09/2018 को शोभित विश्वविद्यालय, मेरठ में डॉ. संदीप कुमार और डॉ. अशोक गुप्ता प्रोफेसर शोभित विश्वविद्यालय, मेरठ ने कृषि सब्सिडी से किसे लाभ होता है: किसान या उपभोक्ता विषय पर ज्ञान साझा करने के लिए सेमिनार का आयोजन किया।

हम उनके बहुत आभारी हैं।



*[Signature]*  
 Registrar  
 Shobhit University  
 (Dept. of Engg. & Tech)  
 NH-30

*[Signature]*  
 29/09/2018

Dept. of Engg. & Tech  
 Meerut-250110

श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नू सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,



क्रमांक ८६०

सहयोग के लिए प्रशंसा पत्र

दिनांक १ अगस्त 2018

हमें 1 अगस्त, 2018 को इंदर सिंह मैथाना, मोदीपुरम, मेरठ के सहयोग से स्वच्छता जागरूकता कार्यक्रम आयोजित करने के लिए शोभित विश्वविद्यालय, मेरठ के डॉ संदीप कुमार और श्री रूपेश कुमार की सराहना करते हुए प्रसन्नता हो रही है। हम इसमें समर्थन और प्रयासों को प्रोत्साहित करते हैं और स्वीकार करते हैं। ऐसी गतिविधियों का संचालन करना जो स्वच्छता प्रथाओं को बढ़ावा देती हैं।

हम दोनों पक्षों की ओर से इस सहयोग में सक्रिय भागीदारी की आशा करते हैं।



अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)

Registrar

Shri Anand Institute of Engg. & Tech  
(Deemed to be University)

NH-74, Meerut, U.P. - 250111



# तिरुपति बालाजी कन्या महाविद्यालय

ग्राम खजूरी, किला रोड, मेरठ।

89276786  
98373753

क

दिनांक 22-12-2018

## TO WHOM IT MAY CONCERN

This is certify that Dr. Saurabh Tyagi delivered a lecture on different problems and their remedies related to women from 18-12-2018 to 22-12-2018. The problems related to women safety uses and misuses of technology, general awareness about social evils, health & sanitation were narrated in very efficient & effective way. Hence girls were impressed very much to follow suggestions given by him. In the last but not the least I shall appreciate his deep knowledge of the subject concerned.

Principal

प्रधान

तिरुपति बालाजी कन्या महाविद्यालय  
खजूरी (मेरठ)

Principal  
Tirupati Balaji Kanya Mahavidyalaya  
Kharjuri, Meerut  
Uttarakhand  
250110

# ग्राम पंचायत छुर विकास खण्ड सरहरपुर खुर्द

श्रीमती प्रभा

त0 सरधाना (मेरठ) उ.प्र.

समाप्तो श्री सरधाना (मेरठ) उ.प्र.

07/06/2018

दिनांक 07/06/2018

07/06/2018

## संवाहना पुरस्कार

जैसे यह बताने छुर खुर्द हो रही है कि  
 डॉ. सोरभ ल्यागी कृषि एवं कृषि सूचना  
 विभाग, और डॉ. संदीप कुमार जैव-  
 प्रौद्योगिकी विभाग, रोहित इरहीरपुर  
 जैव प्रौद्योगिकी एंड टेक्नोलॉजी  
 (डीन डब्ल्यू. सुनिवासिनी) ने ग्राम छुर  
 सरधाना मेरठ से एक जागरूकता शिविर  
 का जैविक खाद के लाभों के बारे में  
 तथा पर्यावरण और समय कल्याण  
 के लिए जैविक खादों पर के  
 बारे में बताया।

*[Handwritten mark]*



सावधान  
 ग्राम प्रधान  
 श्रीमती प्रभा

Registrar  
 Engg. & Tech.  
 (U.P. State University)  
 Lucknow-250110



Mount Litera  
Zee School  
Meerut

Great School. Great Future



Ref. No...M.L.Z.S./218/2018.....

Date: ..15.11.2018.....

To,  
Ms. Shiva Sharma  
Assistant Professor  
Shobhit University,  
Meerut, U.P.

### Appreciation Letter

Dear Ms. Shiva,

With due respect this is to be stated that we are very thankful for organizing a training program in collaboration with Shobhit University, Meerut on Handmade Paper Manufacturing using Bagasse for our school students on November 15, 2018.

We appreciate and acknowledge for the help and efforts for conducting a successful training at our School.

I look forward to an active role in this collaboration.

Principal  
MOUNT LITERA ZEE SCHOOL  
NH-58, Roorkee Road  
Meerut-250110  
Phone - 0121 2579951  
School Code : 60760  
CBSC Aff. No.: 2131809



NH-58, Roorkee Road ;Behind potato research centre, Modipuram, Meerut, 250110 (Uttar Pradesh), India  
www.mountliteralschool.org | mountliteralschool@gmail.com

Welcome No : +91-121-2579951 | For Admission : +91 9760420251 | For Transport : +91 8265957035

Registrar  
Shobhit University  
(Deemed to be University)  
NH-58, Roorkee Road, Meerut-250110

# Smt. Vimla Devi Educational & Welfare Trust

(Reg. under the Registrar Nukur, Saharanpur, UP Reg No.31)

Moh. - Choudhariyan, Near DI  
Bangla, Saharanpur Road, Nah  
Distt- Saharanpur. (UP). 2473

In  
Mob. +91-97587492  
+91-8859961

E-Mail- vinod2911@yahoo.co

Date: 10.07.2

## Appreciation Letter for Collaboration

With due respect this is to be stated that we are very thankful for organizing a seminar on Disaster Management and Cleanliness in collaboration with Smt. Vimla Devi Educational & Welfare Trust and Ms. Shiva Sharma, Assistant Professor, Shobhit University, Meerut on July 10, 2019.

We appreciate and acknowledge for the help and efforts for conducting a successful program to sensitize our students and common mass.

We look forward to an active role in this collaboration.



Smt. Vimla Devi  
Educational & Welfare Trust



Shyama Prasad  
(Dept. of Engg. & Tech  
(Shobhit University)  
NH-30, Meerut (U.P.) (Meerut-250112)



सं. क्रमांक

राजकुमार सिंह

राजकुमार सिंह

मह. माध्या. विभा. का.

दि. 18/04/2018

18 April 2018

### अभिनेत्र्यता पुरस्कार

मुझे यह बताते हुए अत्यंत प्रसन्न हो रही हूँ कि शिला रानी एन.डी. को गौरी शैली शैली में आयोजित प्रतियोगिता में आपकी इंजीनियरिंग एंड टेक्नोलॉजी (डीग्रेड प्रोग्राम) के छात्रों ने गणित भाग में उत्कृष्ट प्रदर्शन रखा-रखाल के महत्व के बारे में जाना-बोली महत्वपूर्ण संरचना (मेक) की महिलाओं को समझाया।



*[Handwritten signature]*

अलदीय

Reg. & Tech  
 250110

गौरी शैली



*[Handwritten signature]*  
 Registrar

Reg. & Tech  
 (Day)  
 250110

**ECONOMIC & COMMERCIAL COUNSELLOR'S OFFICE  
EMBASSY OF THE PEOPLE'S REPUBLIC OF CHINA**

50-D, Shantipath, Chanakyapuri, New Delhi - 110021

Tel: 011-24671753 Fax: 011-26111101

*New Delhi, May 29, 2018*

**Invitation Letter**

**To whom it may concern,**

With commission of the Ministry of Commerce, People's Republic of China, the Economic and Commercial Counselor's Office of the Embassy of the People's Republic of China in India is officially inform that **Ms. Snigdha Tiwari** has been invited to attend 2018 Seminar on Integrated Pest Management of Tropical Crops for Developing Countries which will be held **04-28 June 2018** in Hainan Province, P. R. China. All the expense of international transport (visa fee excluded), boarding, lodging and transport in China for the participants will be borne by the Chinese side.

Please take this invitation letter and other required documents to apply for Chinese "visit" visa. Please note that the visa should cover the training period in China.

The contact details of our office and operator of the training course:

The Economic and Commercial Counselor's Office of the Embassy of China in India:

Address:50-D Shantipath, Chanakyapuri New Delhi-110021

Contact person: Hou Wei

Mobile phone:0091-9810621138 E-mail: given.hou@gmail.com

  
Li Baijun

Economic & Commercial Counsellor  
Embassy of P. R. China in India



  
Registrar  
Shobhit University of Engg. & Tech  
(Deemed to be University)  
NH-55, Modipuram, Meerut-250119

No. 18B0943012

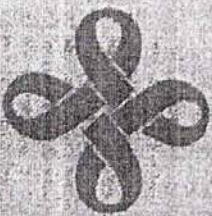
(Translation)



斯里达·提瓦里女士来自印度共和国。自2018年6月4日至2018年6月28日在中国海南省海口市参加了由中华人民共和国商务部主办、中国农业热带作物科学院承办的“2018年发展中国家热带作物病虫害防控

This is to certify that Ms. SNIGDHA TIWARI from the Republic of India has completed "2018 Training Course on Integrated Pest Management of Tropical Crops for Developing Countries" sponsored by the Ministry of Commerce and organized by Chinese Academy of Tropical Agricultural Sciences from June 4, 2018 to June 28, 2018 in Haikou City, Hainan Province, the People's Republic of China.

技术培训班”，特此证明。



中国援助  
CHINA AID



六月二十八日

Ministry of Commerce

People's Republic of China

June 28, 2018





**To Whomsoever It May Concern**

This is to certify that Dr. Vijay Maheshwari, Professor, Shobhit University was associated as a consultant on a collaborative project with our company for a period of 1 year (2018-19). He has a wide knowledge in Computer Supported Collaborative Learning and having good exposure in academics & research.

He has performed his duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish him all success in his future endeavours.

Director



Shri G. B. Pant University of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250113

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NH-58, Modipuram, Meerut-250113

A166



Contents lists available at ScienceDirect

# International Journal of Heat and Mass Transfer

journal homepage: [www.elsevier.com/locate/ijhmt](http://www.elsevier.com/locate/ijhmt)



## Stability of a double diffusive convection in a Darcy porous layer saturated with Maxwell nanofluid under macroscopic filtration law: A realistic approach



Jaimala<sup>a</sup>, Reema Singh<sup>a,\*</sup>, Vipin Kumar Tyagi<sup>b</sup>

<sup>a</sup> Department of Mathematics, Chaudhary Charan Singh University, Meerut 250004, UP, India  
<sup>b</sup> Department of Mathematics, Shobhit University, Meerut 250110, UP, India

### ARTICLE INFO

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Received 29 December 2017  
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**Keywords:**  
Brownian motion  
Darcy-Maxwell nanofluid  
Passive accounting of nanoparticles at the boundaries  
Thermosolutal instability

### ABSTRACT

Double diffusive convection in a Darcy Maxwell Buongiorno's nanofluid confined between two parallel plates incorporating thermophoretic and Brownian diffusion has been examined. Two important aspects of the study are: the macroscopic filtration law for Darcy Maxwell fluid and zero nanoparticle flux at the boundaries. Under normal mode analysis of linear stability theory, Galerkin-type weighted residual technique is employed and the stationary and oscillatory convections are analyzed. It is found that Horton-Rogers' Rayleigh number is reduced due to the two peers of the flow-nanoparticles and salt; stationary convection is governed indirectly by the Brownian motion and thermophoresis through the coupling between buoyancy and conservation of nanoparticles and the solutal diffusivity inhibits the convection. Further it is found that the mode of convection is changed in the presence of salt as the oscillatory convection is suppressed by stationary convection throughout the flow domain. Under non-linear stability analysis the Nusselt numbers corresponding to heat, salt and mass are derived for steady as well as unsteady state. The effect of different parameters is found on the rate of transfer of heat, salt and mass and the mode of isotherms, isonanoconcentrations and isohalines is established in the two states.

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### 1. Introduction

Physical configurations which are even statically stable may encounter instability if their density is governed by two components diffusing at different rates and hence opposing buoyancy effects of each other e.g. temperature and salt or a couple of different fluid constituents equipped with this property. This type of instability is called double diffusive instability. In case of motionless basic state, the instability can be triggered by a finite amount of energy supplied to the perturbations by any of the two diffusers. In case the required energy is supplied by the slower diffuser, the instability is termed as salt fingering occurring frequently in oceans; otherwise it is called diffusive convection. "An Oceanographical Curiosity: The Perpetual Salt Fountain", a study by Stommel et al. [1], may be regarded as seminal paper on the double diffusive instability. In 1960, Stern [2] explained a physical mechanism responsible for the double diffusion and identified it as a potential for oscillatory instability. This mechanism led fluid dynamists to explore a new challenging field. Since then, the credible

theories have been developed to predict important ramification of the phenomenon in oceanography and other non-oceanographic realms. In oceans, salt fingering contributes in upwelling of nutrients which support flora and fauna. It is also the primary cause for the vertical transport of heat and salt which helps in regulating the gradual overturning circulations in the ocean responsible for controlling the climate of the earth. In astrophysics, the convection in large stars with a helium rich core has an analogy with heat/salt diffusive convection and showed the existence of double diffusive convection in many of the atmospheric phenomena. The double diffusive effects cannot be neglected in the context of sewage disposal in the sea to get realistic assessment of the mixing, storage and transport of liquid natural gas (LNG). Precipitation and crystallization are other important geological consequences of double diffusive convection.

Energy efficient heat transfer fluids performing ultra-high cooling are one of the most vital needs of modern industries related to information processes, chemical processes, microelectronics, biotechnology, refrigeration, ventilation, medical science, etc. Nanoscience, nanotechnology and thermal engineering together have made it possible to develop a new category of fluids called nanofluids [3,4] containing small fractions of nanoparticles

\* Corresponding author.  
E-mail address: [reemamalik28@gmail.com](mailto:reemamalik28@gmail.com) (R. Singh).

<https://doi.org/10.1016/j.ijheatmasstransfer.2018.04.070>  
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Shobhit University  
(Deemed to be University)  
Meerut-250110



**Dr. B. Lal Institute of  
Biotechnology**  
(A Exclusive Biotechnology Institute)

Ref No. BIBT/2019/4105

Date - 05/03/2019

No Objection Certificate

This is to certify that our Institute has no objection on the candidature of Mrs. **Komalben Jayantibhai Hirani**, Ph.D Research Scholar of School of Biological Engineering and Life Science, Shobhit Deemed University (Enrollement No. - SU/PH.D/P.T./MB/18/03) to pursue her research work under co-supervision of **Dr. Sandeep K. Shrivastava**, Centre for Innovation, Research & Development (CIRD) of this Institute.

During the period of her research program, the candidate will be permitted to carry out her work at our laboratories/organization and will be given required facilities.

*Aparna*

**Dr. Aparna Datta**

Principal

Dr. B.Lal Institute of Biotechnology,  
Jaipur.

*Shobhit*

Registrar  
Shobhit Deemed University  
(School of Engg. & Tech.)  
NH-10, Jaipur-302017  
Ph: +91-141-250110



## Effectiveness of Electronic Commerce for Business Entrepreneurs

Dr. Mairaj Salim, Dr. Asma Zaheer

Associate Professor of e-Commerce Marketing Shobhit University Meerut-India  
Assistant Professor of Marketing Faculty of Economics and Business Administration King Abdulaziz University,  
Jeddah Kingdom of Saudi Arabia  
Corresponding Author: Dr. Mairaj Salim

**ABSTRACT:** Entrepreneurs are the cornerstone of most economies. This is not only borne out by the number of entrepreneurial businesses across the world, but also by their significant role in supporting the economy at times when the economy is at its slow. Entrepreneurs are considered to be the only realistic employment opportunity creator in developing countries. With increasing the need of e-Commerce industry, every businessman is looking to have an online store where they can sell their range of products and services. One can get a lot of benefits by opting for e-Commerce as it delivers a comprehensive range of benefits to retailers and merchants. Today, e-Commerce has revolutionized the way companies are doing business. Now, consumers can purchase almost anything online 24\*7 a day and get an ultimate shopping experience. Before you opt for an e-Commerce business, have a look on its comprehensive benefits that companies can take advantage.

**KEYWORDS:** E-commerce, Entrepreneur, Benefits, opportunities and customer.

Date of Submission: 30-12-2018

Date of acceptance: 15-01-2019

### I. BENEFITS OF ELECTRONIC COMMERCE

Electronic commerce has recently been a very active field of study. A large number people and organizations are betting that the electronic marketplace of the future will be immense and want to gain as a large a share of it as possible.

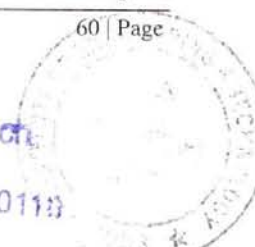
Electronic Commerce has a number of potential benefits, which have been summarised below:

#### Lower Purchasing Costs

Buying materials or services for a corporation can be a complex, multi-step process. First, purchasers have to find suppliers who make the product and determine whether they meet volume, delivery, quality and price requirements. Once a potential supplier has been chosen, detailed drawings and information are transmitted to the supplier so that the product is built to exact customer specifications. Assuming the product sample has been approved and the supplier's manufacturing lines are ready for production, the buyer then transmits a purchase order (P.O.) for a specific quantity of goods. The buyer, meanwhile, receives notification from the supplier that the P.O. was received and confirmation that the order can be met. When the product ships from the supplier, the buyer again receives notification, along with an invoice for goods delivered. The buyer's accounting department matches the invoice with the P.O. and pays the invoice. When changes to the normal order happen—a frequent occurrence in most companies the process can be much more complicated. Companies lower procurement costs by consolidating purchases and developing relationships with key suppliers to benefit from volume discounts and tighter integration in the manufacturing process. They also cast a wide net for lower-cost sources of supply. Large companies have been using EDI over private networks to reduce labor, printing and mailing costs in the procurement process. Automating routine procurement means the procurement staff has more time to focus on negotiating better prices and building supplier relationships. Analysts estimate that businesses already trade well over \$150 billion in goods and services using EDI over VANS. Companies using EDI commonly save 5-10 percent in procurement costs The Internet has the potential to further reduce procurement costs. Large companies benefit from lower transmission costs versus private networks. The Internet also opens the door to doing business electronically with new suppliers and with small and medium-sized suppliers who formerly communicated only via fax or phone. Small companies also benefit.

#### Reduced Inventory/The Right Products in Stock

The longer it takes for production schedules to reach suppliers, the more inventory a company has to hold to account for delays and errors, and the less quickly it can react to changes in demand. The more inventory a company holds, the higher its operating costs, and the lower its profits. Carrying more inventories does not ensure better customer service, either. Shelves weighed down with size-10 running shoes do not help the customer who wears a size 8. When a customer enters a furniture showroom looking for an armchair with green



# Value of Management Education: The Road Ahead

**Dr.Mairaj Salim**

Associate Professor of e-Commerce Marketing  
Shobhit University  
Meerut-India

**Dr.Naima Bogari**

Associate Professor of Marketing  
Faculty of Economics and Business Administration  
King Abdulaziz University, Jeddah  
Kingdom of Saudi Arabia

**Dr.Asma Zaheer**

Assistant Professor of Marketing  
Faculty of Economics and Business Administration  
King Abdulaziz University, Jeddah  
Kingdom of Saudi Arabia

*Abstract: This paper deal with the value of management education. The debate over the effectiveness and appropriateness of current methoa of management education, and Master of Business Administration (MBA) degrees in particular, is carried on in the business press, among business academics and practicing managers. It is noteworthy that MBA courses, their design and content, and comparisons between course are a subject of many articles in the business press, to a much greater extent than other courses to capture important levers of value creation and learn more about what strategies may increase the value.*

*The benefits of the program to graduates, in terms of relevance, knowledge gained, behavior changed and outcomes achieved were judge to be substantial. The MBA is seen as a significant factor in career change, development and adding value to management education..*

**Keywords:** Management, Education Value, MBA, Development and Business.

## Value of Management Education

Why do the best youth study management? There is a huge demand for managers not only in business enterprises but also in non-profit and non-governmental organizations. But it is questionable as to whether the demand is for what they have been taught. Prospective employers benefit from the fact that these young people have the semantics of business. The content is not as important. The learning from daily interactions with other bright young people, not faculty or the courses taught is the student's most valuable gain. Employers do not get ready-made managers because they have studied management. Employers have to spend years in training them to become useful. But many of the institutions attract good students and that saves the employers the time and money they would otherwise have spent in searching. It is not surprising that there is a trend everywhere in the world for employers to seek out other good postgraduate students (in commerce, economics, social work, engineering, etc) instead of recruiting only MBAs (or equivalents), as they have tended to do for thirty years.

Here's little doubt that the practice of business has contributed enormously throughout history to our quality of life and well being. Successful business enterprises have led the way in creating economic development and innovation, technology, and prosperity. Business and management have been taught in institutions of higher education since prior to the turn of the 20th century. Our field has witnessed explosive growth and the MBA is now the most sought-after advanced degree in the world. The benefits of management education are measurable and impressive and are evidenced by concrete examples.

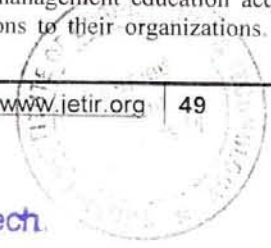
Clearly, there is strong value in management education because of its demonstrated impact within a very short span of history on society, individuals, and organizations. International's Committee on Issues in Management Education (CIME) appointed a task force to study the issue. This report is the first of a series of materials that will help to define and communicate the value of management education to a broad constituency and its impact.

## The Value Proposition for Management Education

Over the course of the last hundred years, business has transformed the world. It has been a driving force in shaping society and the catalyst behind extraordinary economic growth and opportunity. Effective man agreement of business has spurred the creation of jobs, the generation of wealth, and access to opportunity for an increasingly diverse population. Management education has produced leaders capable of creating effective organizations that are the core of these profound, global achievements. Successful students of management education acquire the knowledge and skills that enhance and enrich their lives and enable them to make meaningful contributions to their organizations. In turn,

*[Handwritten signature]*

*[Handwritten text: "Tech. & Tech."]*







# Natural Sciences Trust <sup>Regd.</sup>

H.O. : - 148/4 Jagriti Vihar, Meerut-250005, U.P.

Mobile : - 09411823914, 09358414481

[https://twitter.com/nstmrt\\_official](https://twitter.com/nstmrt_official) | Facebook : naturalsciencetrustmeerut

Ref. :

Date : 15/08/2018

Dear

Mr. Priyank Bharti

Assistant Professor

Shobhit University, Meerut

Natural Science Trust requesting to Shobhit University, Meerut to organize our 3<sup>rd</sup> collaborative event on "Revival of Indian Culture and Heritage from Hastinapur" from date 17-08-2018 to 22/08/2018 and looking forward to see a wonderful event there with you.

Thank you

With Regards

Sincerely,

Founder and Chairman

Natural Science Trust

Chairman  
Natural Science Trust  
Meerut (U.P.) India



Director  
Department of Engg. & Tech.  
Shobhit University  
Meerut-250112

Ref: 29/09/2018/216.....

Date: 29.11.2018.....

We are hereby confirming the participation of DUCAT, Anand Industrial Estate in the upcoming event on Internet Security measurable spreading Digital India Seminar for School Students at Shobhit University, Meerut on date 29<sup>th</sup> September, 2018. We are highly thankful to you for inviting us for this event.

Regards

Director

DUCAT, Ghaziabad



E-mail: [info@ducatindia.com](mailto:info@ducatindia.com)  
Visit us: [www.ducatindia.com](http://www.ducatindia.com)  
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Ph: 0124-2404979

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Ph: 0141-2404979

**GWALIOR**

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Gwalior - 472001  
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Ph: 0511-2404979

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# PHYSIO BIOMED EXPERTS

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Manufacturing & Trading of : Physiotherapy, Slimming, Beauty, Surgical & Critical Care Equipments

## Appreciation Letter for Collaboration

We are pleased to appreciate for organizing the activities related to Biomedical Instrumentation in collaboration with Ms. Shiva Sharma, Shobhit University, Meerut on Sept 15, 2018.

We acknowledged the efforts in conducting such activities and look forward to an active role in this collaboration.

*Buwan*  
15/9/2018

*[Signature]*

Shobhit University

Department of Engg. & Tech.

(Shobhit University)

Shobhit University, Meerut-250111



**FORM GFR 19-A**  
(See Government of India's Decision (1) below Rule 150)

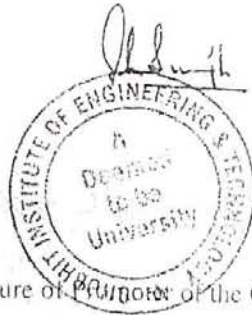
**FORM OF UTILISATION CERTIFICATE**

Sl. No.	Letter No. & Date	Amount
1	F.No. 23011/85/2018-19/Trg.	50000/-

1. Certified that out of Rs. 50000 grants-in-aid sanctioned during the year 2018-2019 under One Day Basic Training Program on Human Rights under this Letter No. given in the margin, a sum of Rs. 50000/-only has been utilised for which it was sanctioned and that the balance of Rs. Nil remaining unutilized as on 22<sup>nd</sup> December 2018
2. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly / are being fulfilled and that I have exercised the following check to see that the money was actually utilised for the purpose for which it was sanctioned.

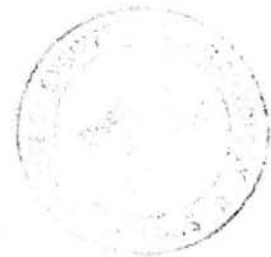
Kinds of Checks exercised.

01. Original bills/expenditure vouchers have been seen.
02. Bills/vouchers have been certified by Exam and duly passed by the Registrar.
03. — Entries in Cash Book have not been made available
04. —
05. —



Counter Signature of Principal of the Organization with Seal

CA For GULATI SHARMA & ASSOCIATES  
Chartered Accountants  
Signature (CA)  
Designation (C.A. SANDEEP GULATI-Partner)  
M.No.: 079766  
Date : 12.01.2019



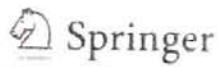
*[Signature]*  
Registrar

Registrar  
Jharkhand State Open University  
(Deemed to be University)

NH-58, Moopanram, West Singhbhum  
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 NH-58, Modipuram, Meerut-250112

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*[Handwritten Signature]*  
 Head of Department of Engg. & Tech.  
 (Deer ... University)  
 NH-88, Meerutpuram, Meerut-250111

Raj Kancham <raj@carbonfarming.in>  
To: moni@shobhituniversity.ac.in

Thu, Jul 12, 2018 at 4:50 PM

Dear sir

Thanks for sharing the file. I will understand the details and come back to you ASAP.

However in my first look, this is exciting project and definitely will add value to us as a company to be part of this. Please allow us to have sometime before I write back to you on this.

Best regards  
Raj Kancham  
CEO, Carbon Farming India Pvt Ltd

---

9. MBA Program for Industry 4.0

Prof. Moni Madaswamy <moni@shobhituniversity.ac.in>

---

## MBA program for Industry 4.0

33 messages

---

Alok Varshney <alok.varshney@gmail.com>

Wed, Apr 14, 2021 at 8:27 PM

To: "Prof. Moni Madaswamy" <moni@shobhituniversity.ac.in>

Cc: "Chancellor, Shobhit University" <chancellor@shobhituniversity.ac.in>, Alagiri Govindasamy <alagiri@futureconnect.net>, RAVISHANKAR RADHAKRISHNAN <ravi@futureconnect.net>, madhan@futureconnect.net, mouli@futureconnect.net

Dear Prof Moni and friends,

This refers to our meeting dated 12/04/2021 regarding MBA curriculum design and development for industry 4.0.

Further to the minutes of the meeting mentioned in the previous mail date 16th March 2021 , this is to further elaborate on futurizing MBA for industry 4.0 that is MBA 4.0.

In this dynamic digital world, careers are not planned by asking if one wants to be a doctor or an engineer or CFO or CMO. The careers are best planned by what problems one wishes to solve. The disciplines that will help solve this problem have to come together. Hence we do not start with the discipline but with a problem solving approach . Due to the computational power and interconnectedness we can now collect and analyse data at speeds and costs unimaginable in the recent past. A data literate manager wields this mighty power and can win hands down in any given situation. At the same instant a manager with critical thinking to sift the valuable insights from mountains of data is the more equipped manager.

The MBA 4.0 shall start with the problem, pick an interdisciplinary approach, can collect and analyse large amounts of data and can sift the value centric insights. Thankfully the next generations are smarter and more conscious of the environments and bring sustainability approach in their thinking. On the other hand reckless unethical and antisocial behaviour of a leader will be known and rejected globally. Thus being an ethical socially responsible and empathetic leader is more precious then ever.

If this is MBA 4.0 the MBA curriculum should be able to produce this person. How can we design and develop MBA curriculum to be industry 4.0 ready. we humbly offer following 10 tips /



Head of Engg. & Tech.  
Shobhit University  
Meerut-250110



acquire future jobs in the campus placements. Most of them will work on industry 4.0 assignments. This shall be made possible through the initiative of exchange of technological ideas and manufacturing related training between the MBA students and the employer units respectively. This may be achieved through strategic tieups with the industry associations to capture and nurture the prospective positions in their member units. This may also help in facilitating and accelerating digital transformation of the SMEs and mid corporats in a very cost effective manner.

The above recommendations may go a long way in designing and developing MBA program and management practice for industry 4.0 .

The technical content discussed may also be augmented and supplemented with MESA inspired MOM and MES 4.0 related education and training material.

In addition we might include some module of effective communication and team skills.

Request you to advise your comments towards drafting the final MBA 4.0 program ( MBA for Industry 4.0 ).

It is advisable to have another round of discussion to facilitate incorporation of suitable recommendations in the program.

Regards,

Alok Varshney  
Director  
Cantier Systems Pte Ltd  
&  
CITSA

---

10. Industry Partnership (NRIs) Programme under preparation – ImmersifAI  
(Australia) and GOC (Australia).



*[Handwritten Signature]*  
Registrar  
State Institute of Engg. & Tech.  
(B) (Community)  
NH-30, Meerut-250110



Prof. Moni Madaswamy <moni@shobhituniversity.ac.in>

---

## Concept note on establishing banana

5 messages

Vinanchiarachi <vinanchiarachi@yahoo.com>

Tue, Sep 15, 2020 at 8:59 AM

Reply-To: Vinanchiarachi <vinanchiarachi@yahoo.com>

To: "avinashdalal@hotmail.com" <avinashdalal@hotmail.com>, "avinashdalal@gmail.com" <avinashdalal@gmail.com>

Cc: "Prof. Moni Madaswamy" <moni@shobhituniversity.ac.in>

Dear Dr. Avinash Dalal,

Good morning

You may recall myself telling you about banana processing park, which can be established in banana growing locations across Indian States.

I am pleased to send you a good concept note on establishing banana processing park prepared by Prof. Moni Madaswamy and his colleague Mr. Dimnesh Gupta.

When time permits, kindly go through the concept note and reflect on the viable avenues of establishing the proposed park in suitable locations.

Kindly note that the attached note was prepared for the Stella Maris Institute for Development Studies (SMIDS), located in Kanyakumari. SMIDS has excellent track record in implementing several agribusiness related projects under the auspices of IFAD and NBARD, making indelible impact on the quality of rural life through the creation of sustainable sources of income for the rural population.

I take the liberty of requesting Prof. Moni Madaswamy, renowned technical expert on the subject, to write to you directly.

He will indeed be the key resource person for conceptualizing and implementing location-specific projects.

Best regards,  
Jebamalai

Dr. Jebamalai Vinanchiarachi

Principal Adviser, Knowledge Management Associates Austria (Present)

Principal Adviser to the Director General United Nations Industrial Development Organization (2006-2009)

---

**Banana Agro Processing Industrial Park for Sustainable Rural Livelihoods and Prosperity**

**Mission: Doubling Farmers Income by 2022**

**A Concept Paper on Turning Banana Waste to Value**

Submitted to

**Stella Maris Institute of Development Studies**



  
Dr. Jebamalai Vinanchiarachi  
Principal Adviser, Knowledge Management Associates Austria (Present)  
Principal Adviser to the Director General United Nations Industrial Development Organization (2006-2009)  
NH-10, Kanyakumari, Kerala-250110



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Fax: +91-121-2090630

E-mail: anandhosp@anandhosp.com

Website: www.anandhospital.com

## TO WHOM IT MAY CONCERN

Respected Sir,

I am pleased to inform you that our hospital has been awarded the ISO 9001:2008 certification by the Bureau of Indian Standards (BIS), New Delhi, India. This certification is a testament to the quality of our services and the commitment of our staff to provide the best care to our patients.

We are confident that this certification will help us to attract more patients and to improve our overall performance. We are also pleased to inform you that our hospital is now a member of the Indian Medical Association (IMA) and the Indian Nursing Association (INA).

We are looking forward to serving you better and to providing you with the highest quality of care.

Yours faithfully,



Auth-signatory

*Anand K. Singh*

Authorized Signatory

of Engg. & Tech  
Meerut-250110



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**Meerut**

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E.: mail@shobhituniversity.ac.in  
U.: www.shobhituniversity.ac.in

Ref: SU/RO/ADS/5(SBES-BM) /2018

Dated. 11 August, 2018

To,  
Ms. Richa Raturi D/O Sh. Harshmani Raturi  
Richa Kunj near ITI  
Lower Bhaktiyana, Srinagar (Gariwal)  
M- 8511953344  
E.Mail- richaraturi1987@gmail.com

**URDC Result – APPROVAL OF SYNOPSIS**

Dear Ms. Richa Raturi,

- Further to our letter No. SU/RO/ADS/5(Pharm.)/2018 dated 11 July, 2018.
- URDC, in its meeting held on 21<sup>st</sup> July, 2018 has approved the following :-

Synopsis	: To be re-submit on revised topic.
Registration	: Confirmed
Enrolment No	: 2016040031
Registration No	: SU/Ph.D/Pharm./P.T.16/01
Date of Registration	: 28 <sup>th</sup> August, 2016
Subject	: Pharmaceutical Sciences
Research Topic	: Development of Chemical Markers of Jeevaka ( <i>Microstylis Muscifera</i> ) for Standardization and Identification of Common Substitutes/Adulterants in Different Marketed Formulations
Supervisor(s) approved	: 1. Dr. R.G. Singhal, Associate Professor School of Basic and Applied Sciences, Shobhit University, Meerut. 2. Dr. Praveen Bansal, Professor University Centre of Excellence in Research Baba Farid University of Health Sciences, Faridkot 3. Prof. (Dr.) Ranjit Singh, pro Vice-Chancellor, Shobhit University, Gangoh, Saharanpur (UP)

- You are advised to submit your revised synopsis on approved topic in the standard format, duly signed by you as well as your supervisor at bottom of right hand corner in the light of the following :-
  - Incorporate more exhaustive literature survey from an authentic source like NML, Delhi.
  - Proposed methodology required a review after proper literature survey.
  - After incorporation of the above suggestions of the committee, the Hon'ble Vice Chancellor may examine synopsis thereafter it will be presumed as approved.
- On receipt of approval of your synopsis, you are also advised to carry out your research work and forward monthly progress report in accordance with Para 14 of Ph.D. Ordinance (December-2009 print) as per Annexure (Copy attached) for our further necessary action.

Yours Sincerely,

Vijay K. Singh

Registrar

- Supervisor(s) Concerned
- School of Biological Engg. and Sciences (Dept. of BM)
- Finance Officer



P.T.O

Registrar  
Shobhit Institute of Engineering & Technology  
NH-58, Modipuram, Meerut-250110

## Impact of Human Colostrum Associated Microbial Population on Neonatal Health

Ritesh kumar Arya<sup>1</sup>, Hemant Tahilramani<sup>2</sup>, Amar Garg<sup>3</sup>

<sup>1</sup>Ph D Research Scholar, Department of Microbiology, Institute for Medical Sciences and Research Centre, Jaipur National University, Jaipur.

<sup>2</sup>Assistant Professor, Department of Pediatrics, Institute for Medical Sciences and Research Centre, Jaipur National University, Jaipur.

<sup>3</sup>Vice Chancellor, Shobhit University, Meerut.

**Corresponding Author:** Ritesh kumar Arya, Ph.D Research Scholar, Department of Microbiology, Institute For Medical Sciences And Research Centre, Jaipur National University, Jaipur.

**Type of Publication:** Review Paper

**Conflicts of Interest:** Nil

### Abstract

The first thick milk formed immediately after the delivery of newborns by mammary glands of female mammals (including humans) is called colostrum. It is the basic primary requirement for the nourishment of newborns. It is a rich source of proteins, lipids, carbohydrate, vitamins and minerals which helps in developing immunity of infants. Traditionally, human colostrum was considered to be a sterile fluid. But, recent researches have shown that it contains high supply of mutualistic and commensal source of bacteria which act as a probiotic to the infant gut. Bacteria in the colostrum can stimulate anti-inflammatory response by producing specific cytokines which can reduce the risk of forming large range of inflammatory infections and can also prevent the expression of immune-mediated pathologies, such as atopic dermatitis and asthma. The aim of our present review is to elucidate the role of microbiota of colostrum in infant nourishment.

**Keywords** - Human colostrum, Microbiota, Infant immune system.

### Introduction

Breastfeeding is the initial form of neonatal feeding which assimilate all the basic requirements of nutrients for the first six months of life (Fernandez, et al, 2013). Human colostrum influences the growth of immune system and help to establish the microbial population in gut by its components, such as oligosaccharides which act as probiotics (Fernandez, et al, 2013).


The contents of human milk varies with timing of lactation. The milk formed immediately after delivery till the 5<sup>th</sup> day is very rich in nutrients and bioactive factors, such as mineral salts, antibodies, cytokines, lysozymes, oligosaccharides, proteins and complement factors. This milk produced is called colostrum (Ballard & Morrow, 2013). The transitional milk occurs from 5<sup>th</sup> day to 2<sup>nd</sup> week of postpartum (Ballard & Morrow, 2013). It is very rich in lactose, calcium and lipids because its role is to fulfill the developmental and nutritional requirements of growing neonates. The human milk achieves standard composition after one month of childbirth which is called "mature milk". The mature milk has high concentration of

Date: 20<sup>th</sup> Aug 2018

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Mr. Sarvendra Pratap Singh** is employed with our organization as an **Application Development Scientist - Food & Beverages** in Chromatography & Mass Spectrometry Division since 09<sup>th</sup> July 2018 till present date. He has an experience of 1.5 months in our organization. We allow him to join **Ph.D. in Biotechnology** at **Shobhit University, Meerut** in session 2018-19 on part-time basis. It is further certified that he will be allowed to use facilities for research work at our Organization.

For Thermo Fisher Scientific India Pvt. Ltd.

  
Authorized Signatory



Registrar Off.

IN	OUT
	

  
Registrar

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 क्षेत्र पंचायत दौराला (मेरठ)  
 मो. 8923022406, 9917307402



मन्नू सिंह

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 सदस्य, ग्राम पंचायत  
 मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
 manusinghadvocate@gmail.com



क्रमांक 0003

दिनांक 25/10/18

(सराहना पुरस्कार)

हम हर्ष पूर्वक डॉ. इमरान जी का आभार व्यक्त करता  
 चाहते कि उन्होंने हमारे गाँव वासियों को कौशल भाषणों  
 पर सलाह प्रदान की। हम इसके लिए आभारी हैं।  
 ग्राम पंचायत मैथना, इन्द्रसिंह इसके लिए आभारी हैं।  
 राबजू इमरान जी स्वयं उनके सहकारियों स्वयं  
 द्वारा छात्रों को आभारी हैं।

*[Handwritten signature]*

रा-मवा-९



*[Handwritten signature]*

State Institute of Engg. & Tech.  
 (Deemed to be University)  
 Meerut-250117




# Shobhit

Institute of Engineering & Technology

CELEBRATION - 25 YEARS

## Activity Report

<b>Title of the Activity:</b>	Launching of Industry 4.0 Technology aligned Skill Development and Entrepreneurship Programme
<b>Date</b>	March 24, 2018
<b>Coordinator of the activity</b>	Prof. M. Moni, Professor, Emeritus and Chairman (CAIRS & CADMS)
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CI TSA)
<b>Total Number of the Participants</b>	22
<b>Purpose of the Activity</b>	CI TSA is a joint initiative of Aacetel Technologies and Shobhit University for promoting designing and delivering, both academic and capacity building programme in the areas of industry 4.0 studies and applications.
<b>Venue</b>	SII-I, campus, Meerut
<b>Resource Person/In collaboration</b>	<b>Mr. Alok Varshney</b> , Managing Director, M/s Aacetel Technologies Pvt. Ltd.
<b>Financial Support:</b>	Rs. 10,000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	A launch of academic courses leading (a) MBA-Industry 4.0 Management, (b) PG Diploma in Industry 4.0 Management, (c) Diploma in Industry 4.0 Management.
<b>Feedback:</b>	With this curriculum and international industry linkage and employment support for trained manpower will be established.

Signature of the Programme Coordinator

Signature of the Dean/COO Director

Shobhit Institute of Engineering and Technology  
NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110



Registrar  
Shobhit Institute of Engineering and Technology  
(Faculty of Engineering & Technology)  
NH-58, Modipuram, Meerut-250110

Registrar  
Shobhit Institute of Engineering & Technology  
(Faculty of Engineering & Technology)  
NH-58, Modipuram, Meerut-250110




# Shobhit

Institute of Engineering & Technology

Centre for Innovation & Entrepreneurship

## Activity Report

<b>Title of the Activity:</b>	Launching of MBA in AGRIBUSINESS MANAGEMENT
<b>Date</b>	April 20, 2018
<b>Coordinator of the activity</b>	Prof. M. Muni, Professor, Emeritus and Chairman (CAIRS & CADMS)
<b>Conducting Department</b>	Centre for Agriculture Informatics & e-Governance Research Studies
<b>Total Number of the Participants</b>	50
<b>Purpose of the Activity</b>	To prepare qualified and competent agribusiness management professionals among the graduates of agriculture and allied sciences.
<b>Venue</b>	SJET, campus, Meerut
<b>Resource Person/In collaboration</b>	Dr. Sahdev Singh, Executive Director, Agriculture Growth of Rural India, New Delhi.
<b>Financial Support</b>	R. 10,000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	Agribusiness denotes activities of agriculture sector integrated in terms of production, post-harvest management storage, processing etc. together under different organizational networks.
<b>Feedback:</b>	The course curriculum is designed with extensive agriculture industry consultation and academic experts advice

Signature of the Programme Coordinator - *Muni*

Signature of the Dean/HOD/Director - *Ashok Gupta*

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Meerut, Uttar Pradesh 250110



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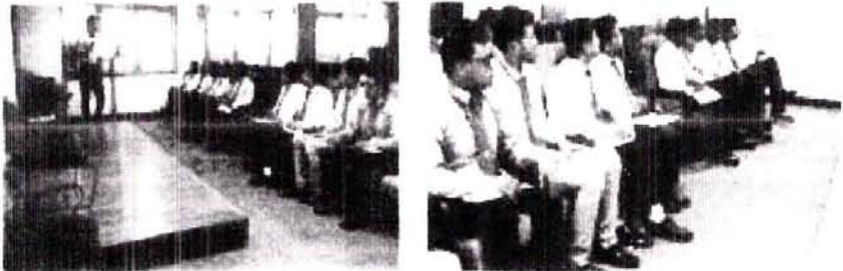


# Shobhit

Institute of Engineering & Technology

EDUCATION EMPOWERS

## Activity Report

<b>Title of the Activity:</b>	Faculty Development Program Based On "BMW Skill Next Program"
<b>Date</b>	April 6, 2019
<b>Coordinator of the activity</b>	Mr. Rajkishor Singh
<b>Conducting Department</b>	Mechanical Engineering
<b>Total Number of the Participants</b>	Participants - 10
<b>Purpose of the Activity</b>	To deliver information about upcoming technologies in BMW engine
<b>Venue</b>	SIT campus Meerut
<b>Resource Person/In collaboration</b>	Mr. Kashi Vswarathari
<b>Financial Support</b>	Rs. 10,000
<b>Photographs</b>	 <p>Teachers are receiving update information from expert of BMW.</p>
<b>Outcome of the Activity</b>	In this program- "Train the trainer"- the trainers were trained by master trainer. There was a good brain storming discussion about the various new technology adopted by BMW. It was indeed the technical enhancement for the faculty members.
<b>Feedback:</b>	Teachers has appreciated this orientation program as they get information about various specifications of BMW products.

*Manish*

*[Signature]*

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*[Signature]*  
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Phone: 0522-250110, Fax: 0522-250111



## Activity Report

Title of the Activity:	Technology Based Entrepreneurship Development Programme - Integrated Farming System
Date	May 01 to May 30, 2019
Coordinator of the activity	Prof. M. Mour, Professor, Emeritus and Chairman (CAIRS & CADMS)
Conducting Department	School of Agriculture & Agri-Infomatics
Total Number of the Participants	87
Purpose of the Activity	To promote agri-business management and develop employment opportunities for rural people
Venue	Shobhit University
Resource Person/In collaboration	Experts from Organizations - FDI, DB, NSI, Ministry of MSME, CEI, IIT, IIR
Financial Support	Sponsored by NSDFDB, DBI, Govt of India
Photographs	
Outcome of the Activity	Participants were informed about new ideas of business opportunities, technical and financial assistance for the development of idea into product/service
Feedback:	The participants were happy to get the guidance on implementation of new agriculture related venture and integrated farming system

Signature of the Programme Coordinator - *Mour*

Signature of the Dean/HOD/Director - *Solpana*

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## Evaluation of Antibacterial Properties of Silver Nanoparticles Prepared via Green Route Using *Elaeocarpus ganitrus* (Rudraksha) Beads Extract

Anvesha Sinha<sup>1</sup>, Jayanand Manjhi<sup>2</sup>\*, Vinod Kumar<sup>3</sup>, and Durg V. Rai<sup>1</sup>

<sup>1</sup>School of Biological Sciences, Shobhit University, NH-58, Modipuram, Meerut 250110, India

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The global expansion of antimicrobial resistance has necessitated different domains of antimicrobial sciences to work in concurrence and surface effective remedy for confronting the quandary. *Elaeocarpus ganitrus* or Rudraksha comes to the rescue of mankind, whose medicinal properties may be utilized to enhance the renowned antimicrobial properties of nanosilver formulations. The present study aims at fabricating green silver nanoparticles (GSNPs) possessing significant antibacterial properties. Green reduction of Ag<sup>+</sup> ions was carried out using the phytochemicals present in the Rudraksha beads extracts (RBE) at room temperature. The RBE-GSNPs thus produced were characterized using techniques viz. UV-Vis Spectral analysis, XRD, FTIR and SEM, followed by the assessment of their antibacterial potential against important food borne bacterial pathogens, depicted in the form of MIC, MBC and tolerance level. The Rudraksha extracts mediated green silver nanoparticles (RBE-GSNPs) were found to be mostly spherical in shape and in the size range of 13.6–36.3 nm. The medicinal potential of Rudraksha augments the therapeutic value of RBE-GSNPs depicted in the form of its significant antibacterial properties against notable food borne pathogens, thus enhancing the role of silver nanoparticles to be employed in the nanomedicine domain, subjected to further scrutiny.

**Keywords:** Antibacterial Activities, Electron Microscopy, Fourier Transform Infra Red Spectroscopy, Green Synthesis, Silver Nanoparticles, X-ray Diffraction.

### 1. INTRODUCTION

Rudraksha or *Elaeocarpus ganitrus* Roxb. (Syn. *E. sphaericus*; Family *Elaeocarpaceae*), grown in north eastern and Himalayan regions of India and well known for its charismatic beads having numerous healing properties, has achieved an eminent status in Hindu mythology and Ayurveda, the ancient Indian branch of medicine. Rudraksha fruits are thermogenic, tranquilizing and are beneficial in various physiological and neurological disorders, ranging from cephalalgia, anorexia, migraine, epilepsy etc.<sup>1-2</sup> Besides, Rudraksha has demonstrated diverse pharmacological properties<sup>3-2</sup> that include anti-inflammatory,<sup>5</sup> analgesic, sedative,<sup>6</sup> antidepressant,<sup>7</sup> anti-asthmatic,<sup>8</sup> hypoglycemic,<sup>4</sup> antihypertensive,<sup>9-11</sup> smooth muscle relaxant, hydrocholeretic,<sup>12</sup> antiulcerogenic,<sup>7</sup> and anticonvulsant.<sup>13</sup> The rapidly growing and spreading canopy of antimicrobial resistance and multidrug resistance in almost every sphere of human subsistence

especially food and agriculture has crucially necessitated the importance of discovering an effective substitute to deal with the quandary at the earliest. Rudraksha extracts possess potential antimicrobial activity<sup>14,15</sup> and can be used even for the alleviation of chronic diseases like cancer. Evidences show that aqueous extracts Rudraksha leaves have significant *in vitro* antimicrobial activity against various clinical isolates of bacteria including *Bacillus cereus*, *Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Staphylococcus aureus* etc. and fungi such as *Aspergillus flavus*, *A. niger*, *Candida albicans*, *C. geotrichum*, *C. glabrata*, *C. tropicalis*, *Penicillium* sp. and others.<sup>15</sup> Such a broad spectrum antimicrobial activities may also be expected in other parts of Rudraksha including beads.

The advent and development of nanotechnology has provided a vent to further enhance and exploit the huge health benefits of Rudraksha amalgamated with that of antimicrobial properties of silver. The antibacterial effects of silver (Ag) salts have long been acknowledged and

\*Author to whom correspondence should be addressed.



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# Vijendra Adarsh Bal Inter College

Arjun Nagar, Chamri (Hapur)-245101

Ref No. VAB/18/67

Dated.. 13/08/18

College Code: - 1131

This is to certify that Shobhit Institute of Engineering and technology is associated with us for collaboration teaching of B.Ed. students of the Shobhit University (Meerut). This collaboration is with Mrs. Uma Sharma, Assistant professor, Department of Education. We wish her all the best in future also. This collaboration is effective for Academic session 2018-19.



Principal

S.K. SIROHI

Principal

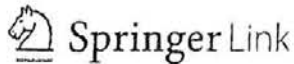
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# Computational Identification of MicroRNAs and Their Targets from Finger Millet (*Eleusine coracana*)

Interdisciplinary Sciences: Computational Life Sciences

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- S. Usha (1) (2)
- M. N. Jyothi (1) (2)
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Original Research Article

First Online: 24 October 2015

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## Abstract

MicroRNAs are endogenous small RNAs regulating intrinsic normal growth and development of plant. Discovering miRNAs, their targets and further inferring their functions had become routine process to comprehend the normal biological processes of miRNAs and their roles in plant development. In this study, we used homology-based analysis with available expressed sequence tag of finger millet (*Eleusine coracana*) to predict conserved miRNAs. Three potent miRNAs targeting 88 genes were identified. The newly identified miRNAs were found to be homologous with miR166 and miR1310. The targets recognized were transcription factors and enzymes, and GO analysis showed these miRNAs played varied roles in gene regulation. The identification of miRNAs and their targets is anticipated to hasten the pace of key epigenetic regulators in plant development.



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# MOBILE AD-HOC NETWORKS ROUTING PROTOCOLS- A REVIEW

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Sunrise Institute of Engineering, Technology  
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Unnao

Niraj Singhal<sup>2</sup>  
<sup>2</sup>Professor,  
Shobhit University,  
Meerut

### ABSTRACT

Ad Hoc system are well known and helpful on account of infrastructure less nature. Ad-hoc Network is a meeting of hubs, wherein singular hubs company by way of sending packets for every other to allow hubs to convey beyond direct transmission variety. Security is basically worry with a particular stop intention to give ensured correspondence among cell nodes in opposed environments. Countless conventions for MANET has been proposed to empower brisk and powerful device advent and rebuilding MANET (Mobile Ad-hoc Network) alludes to a multi-hop packet based totally wireless network comprised of an arrangement of flexible hubs that could bring and pass inside the period in-between, without utilizing any type of settled wired foundation. MANET'S are without a doubt self arranging and flexible systems that may be fashioned and distorted on-the-fly without the need of any concentrated employer. It by way of and massive works via TV the information and utilized air as medium. It's telecasting nature and transmission medium likewise help assailable to disturb system. Numerous form of assault should be possible on such Mobile Ad Hoc Network. The accentuation of this paper to look at wormhole assault, a few detection approach and specific strategies to save you community from these assault.

**KEYWORDS:** AODV, MANET, Intrusion: Detection, and Worm Hole Attack,.

### 1. INTRODUCTION

A Mobile Adhoc Network is a group of independent cell nodes which could communicate via every different radio waves. The cellular nodes which are in radio variety of each other can immediately communicate, while others needs the resource of intermediate nodes to direction their packets. Each of the node has a wi-fi interface to talk with each different. [1] These networks are completely allotted, and might paintings at any place with out the assist of any fixed infrastructure as access points or base stations. Figure 1 suggests a easy ad-hoc community with three nodes. [1] Node 1 and node 3 are not within range of each other; but the node 2 can be used to forward packets among node 1 and node 2. The node 2 will act as a router and these three nodes collectively form an advert-hoc network.

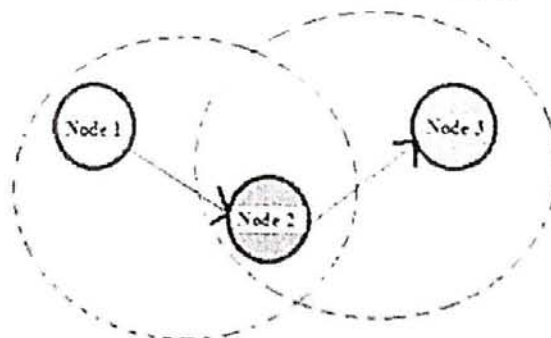


Fig. 1. Mobile Adhoc Network

Mobile ad hoc networks are self sufficient systems made from a number of mobile nodes that communicate the

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# An Optical Router Design for High Speed Data Centers

Utkarsh Shukla<sup>1</sup>, Dr. Niraj Singhal<sup>2</sup>, Dr Rajiv Srivastava<sup>3</sup>

<sup>1,2</sup>Department of Computer Science Engineering, Shobhit University, Meerut, India

<sup>3</sup>IIT Kanpur, India

**Abstract:** Cloud computing facts facilities are becoming more and more famous for the provisioning of computing assets. The price and working expenses of information facilities have skyrocketed with the increase in computing capacity. Several governmental, industrial, and academic surveys imply that the power utilized by computing and communicat  devices inside a data center contributes to a sizable slice of the records center operational costs. Everything is being connected to the Cloud and Internet of Things, and network robots with huge statistics analysis are developing critical packages and offerings. The cloud community architecture is shifting closer to mega-cloud records centers (DCs) supplied by way of groups together with Amazon and Google in combination with allotted small DCs or side computers. While the conventional restrictions imposed with the aid of distance and bandwidth are being conquer through the development of superior optical interconnection, present day packages impose more complicated performance and best of provider necessities in terms of processing energy, reaction time, and facts amount.

**Keywords:** Computer networks, Next generation networks, Cloud computing, Data Centers

## 1. Introduction

Over the previous couple of years, cloud computing offerings have come to be an increasing number of popular because of the evolving facts centers and parallel computing paradigms. The belief of a cloud is normally described as a pool of pc sources prepared to provide a computing characteristic as a application. The important IT groups, including Microsoft, Google, Amazon, and IBM, pioneered the field of cloud computing and maintain growing their offerings in records distribution and computational hosting [28]. The operation of massive geographically allotted data facilities requires massive quantity of power that debts for a large slice of the whole operational prices for cloud records facilities [6]. Gartner institution estimates electricity consumptions to account for up to 10% of the modern-day statistics middle operational charges (OPEX), and this estimate may additionally upward thrust to 50% inside the next few years [10]. However, computing primarily based power intake isn't the only power-associated part of the OPEX invoice. High power consumption generates heat and requires an accompanying cooling device that fees in a range of \$2 to \$5 million in step with yr for classical records centers [13]. Failure to maintain data center temperatures inside operational levels extensively decreases hardware reliability and can potentially violate the Service Level Agreement (SLA) with the clients. A predominant component (over 70%) of the heat is generated through the facts middle infrastructure [2]. Therefore, optimized infrastructure installation may additionally play a enormous position in the OPEX discount. From the electricity efficiency perspective, a cloud computing facts center may be defined as a pool of computing and verbal exchange sources organized within the way to rework the received electricity into computing or information switch paintings to meet consumer demands. The first strength saving solutions focused on making the data center hardware additives electricity green. Technologies, such as Dynamic Voltage and Frequency Scaling (DVFS), and Dynamic Power

Management (DPM) [14] have been notably studied and widely deployed. Because the aforementioned strategies depend upon electricity-down and energy-off methodologies, the performance of those strategies is at best constrained. In reality, an idle server can also devour about 2/3 of the height load [3]. Because the workload of a data middle fluctuates on the weekly (and in a few instances on hourly foundation), it is a common practice to overprovision computing and communicational assets to deal with the height (or predicted maximum) load. In fact, the common load debts simplest for 30% of facts center sources [12]. This allows putting the relaxation of the 70% of the resources into a nap mode for most of the time. However, accomplishing the above requires significant coordination and power-conscious workload scheduling strategies. Typical electricity-aware scheduling answers attempt to: (a) concentrate the workload in a minimum set of the computing assets and (b) maximize the quantity of useful resource that can be put into sleep mode [8]. Most of the present day ultra-modern research on electricity efficiency has predominantly targeted on the optimization of the processing elements. However, as recorded in in advance studies, extra than 30% of the entire computing power is ate up through the communicat  hyperlinks, switching and aggregation factors. Similar to the case of processing additives, power intake of the communication material may be decreased by means of cutting down the conversation speeds and cutting operational frequency together with the enter voltage for the transceivers and switching elements [29]. However, slowing the communicational material down ought to be achieved carefully and based on the demands of user applications. Otherwise, such a procedure may result in a bottleneck, thereby limiting the overall system performance.

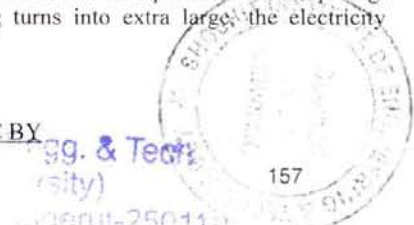
## 2. Related Work

Network-based totally cloud computing is hastily increasing as an alternative to traditional workplace-based computing. As cloud computing turns into extra large, the electricity

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# Isolation and Characterization of Stress Inducible Protein (*TaSti/Hop*) from Heat-Tolerant Wheat Cultivar C306

Vishwakarma Harinder<sup>1</sup>, Sharma Jyoti<sup>2</sup>, Solanke Amolkumar<sup>1</sup>, Singh G.P.<sup>3</sup> and Padaria Jasdeep<sup>1\*</sup>

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## Abstract

Heat stress adversely affects wheat crop plants leading to immense yield losses. To cope up with the stress, plants respond by overexpressing stress-associated transcription factors and genes. Here, we have identified and cloned a putative heat stress-responsive gene *TaHSti/Hop* (Accession no. MF383198) from heat tolerant Indian bread wheat cv. C306. Based on in silico analysis, we report here 3D protein structure and digital expression analysis for *TaSti/Hop*. Computational studies on *TaSti/Hop* confirmed its role in wheat heat stress tolerance. This gene can be prospective resource for development of abiotic stress tolerant transgenic crops.

**Keywords:** Wheat, heat stress, stress inducible protein, *Sti/Hop*, in-silico studies.

## Introduction

Plants, being sessile, are exposed to many biotic (pathogen like virus, bacteria, insect pest) and abiotic stresses (drought, salinity, cold, heat) at one or more stages of their life cycle. Among these abiotic stresses, heat stress (HS) is most detrimental affecting the plant growth and development as evident from the decrease in the yield. Wheat is the third most important food crop in the world which accounts for providing essential nutrients like vitamins, starch, minerals for 30% of world's population<sup>1</sup>. Wheat crop plants are highly sensitive to heat stress especially at grain filling stage<sup>2</sup> which is a crucial stage in life cycle of wheat<sup>3</sup>.

Lot of metabolic changes take place inside the plant cells in response to heat stress and a large number of molecules like Hsps, peroxidases, transcription factors and other linked metabolic enzymes are activated to reduce the effect of imposed stress<sup>4,5</sup>. Stress induced protein (*Sti*) also known as *Hop* (Hsp70-Hsp90 Organizing protein) is activated in plants in response to heat stress and it interacts with Hsp90 to combat heat stress<sup>6-8</sup>. *Sti/Hop* acts as a co-chaperone linking together Hsp70 and Hsp90 protein in a reversible manner<sup>9</sup>. However, its exact biological function is still not completely known<sup>5,10</sup>.

On the basis of differential expression under heat stress, qRT-PCR analysis in two contrasting wheat genotypes cv. C306 (heat tolerant) and HD2967 (heat susceptible) at grain filling stage was carried out in a previous study<sup>22</sup>, gene

*Sti/Hop* was selected for full length amplification. The Hsp70-Hsp90-Hop interaction is one of most important Protein Quality Control (PQC) system for proteostasis<sup>11-13</sup>. *Sti/Hop* is found to be present in large number of organisms such as *Homo sapiens*, *Drosophila melanogaster*, *Caenorhabditis elegans*, *Saccharomyces cerevisiae*, *Chlamydomonas reinhardtii* etc<sup>14</sup>. It was first discovered in yeast and homologues were identified in human, mouse, rat, insects, plants, parasites and virus<sup>15</sup>.

*Sti/Hop* has tetratricopeptide repeat (TPR) domains with  $\alpha$ -helical motifs (34 amino acids sequence repeat)<sup>16</sup>. It is known that the TPR1 and TPR2B domains present at the N-terminal are involved in binding with Hsp70 protein at C-terminal region (hexapeptide region), while TPR2A domain interacts with the Hsp90 C-terminal region (pentapeptide region)<sup>17,18</sup>. Domains consisting of Tetratricopeptide repeats (TPR) are conserved in *Sti/Hop* proteins reported so far<sup>10</sup>.

Here we cloned and characterized the heat stress induced protein (*TaSti/Hop*) from wheat cv. C306. The sequence analysis of gene *Sti/Hop* (Accession no. MF383198) revealed its homology maximum similar to *Triticum aestivum Sti/Hop* mRNA (99% similar) followed by *Aegilops tauschii*, *Hordeum vulgare*, *Dactylis glomerata*. In silico analysis revealed the presence of conserved TPR domains as reported earlier<sup>18</sup>, confirming its evident role in abiotic stress tolerance. Understanding the structural and functional mechanism of heat stress responsive gene *TaSti/Hop* of wheat would contribute to the still limited information available for *Sti/Hop* plant homologs and unravel our understanding of heat stress tolerance mechanism in wheat. This gene may be further utilized for raising abiotic stress tolerant transgenic crops.

## Material and Methods

**Plant material:** The seeds of Indian bread wheat, *Triticum aestivum* cv. C306 (heat tolerant) and cv. HD2967 (heat susceptible) were obtained from Division of Genetics, Indian Agricultural Research Institute, New Delhi, India. C306 is a heat and drought tolerant cultivar (Regent X Ch23) X C591 (P19 X C28) usually grown under rainfed conditions<sup>19,20</sup>. HD2967 is a popular variety among farmers but has a disadvantage of being heat susceptible<sup>21</sup>.

**Heat stress treatment:** The plants were grown under phytotron conditions at 24±2°C under photoperiod of 16/8 h. The plants were subjected to heat stress at grain filling stage



# A Novel Approach to Optimize Overhead Internet Gateway for MANET

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**Abstract**—A Mobile Ad-Hoc Network (MANET) is a collection of mobile nodes (such as laptops, PDAs) forming an arbitrary networks without the support of any fixed infrastructure such as base station or access point. In MANET, each node functions as a router and forwards packets to other peer nodes. There is no fixed topology due to the node mobility, which results in interference, multipath propagation and path loss. Mobile nodes have constraints on battery power, computation capacity, bandwidth, and wireless channel leading to number of challenges while designing routing procedures. Determining viable routing paths and delivering messages in a decentralized environment where network topology fluctuates has always attracted the attention of researchers to design new and new mechanism to solve these problems. While the shortest path (based on a given cost function) from a source to a destination in a static network is usually the optimal route, this idea is not easily extended to MANET. In this paper, the work proposed a stability aware of Optimized Overhead internet gateway discovery in Mobile Ad-hoc Network that is capable of predicting the stability (i.e., expiration time) of multiple routes. AODV then selects the route that minimizes hop count while staying available for the expected duration of packet transmission. The proposed protocol increases the successful packet transmissions with comparable route establishment and maintenance overheads. A new approach in Ad-Hoc on Demand Routing Protocol (AODV) is based on the prediction of future sleep times of mobile nodes (i.e., the times when mobile nodes' Selective Forward techniques will turn Mobile Router Advertisement (MRA) their network cards). The goal of this approach is to introduce Optimized-Overhead awareness in routing decisions and thereby to increase the number of successful packet transmissions.  
**Keywords**— MANET, CGSR, DSDV, RREP.

## I. INTRODUCTION

A Mobile network is a radio cellular network distributed over land areas called cells, each served by at least one fixed-location transceiver known as a cell site or base station. When joined together these cells provide radio coverage over a wide geographic area. This enables a large number of portable transceivers (e.g., mobile phones, pagers, etc.) to communicate with each other and with fixed transceivers and telephones anywhere in the network, via base stations, even if some of the transceivers are moving through more than one cell during transmission. There are two distinct types of wireless networks: *infrastructure-based wireless networks* and *mobile ad hoc networks* (MANETs). In infrastructure-based wireless networks, the mobile nodes rely on stationary nodes, usually called access points, with ample AC power to route their packets through the network. Usually, in this case, the access point coordinates and routes traffic between nodes. In MANETs, the mobile nodes rely on each other for packet delivery and traffic coordination. This type of coordination forms what is called multi-hop connections. In ad hoc networks, the task of packet delivery and traffic coordination puts a lot of stress on the individual nodes' energy sources. As the nodes consume energy from their power sources, the network can become partitioned. This can hasten the death, i.e. the point at which the network can no longer fulfill its intended functions, of the network.



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# A Supply Chain Inventory Model for Deteriorating Items with Variable Lead Time and Varying Demand under Shortages

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Sunil Kumar\*, Swami Vivekanand Subharti University, Meerut, U.P. E-mail: gkv.sunil@gmail.com

**Abstract**— In this model we have developed a supply chain inventory model for the decaying items where the deterioration rate is assumed to be constant and the demand rate is considered as price dependent. Shortages are allowed and partially backlogged. To make the study realistic we have considered an uncertain lead time which is assumed to be a decision variable. Mathematical formulation has been done to find out the optimal replenishment policies. Theoretical results have been verified through a numerical example and the effect of variation is examined via sensitivity analysis.

## I. Introduction

From last few decades it is observed that the supply chain issues are gaining justifiable interest from the researchers as well as from practitioners. Banerjee (1986) have derived a joint economic lot size model for two layer supply chain system for single vendor and single buyer with finite replenishment rate. Goyal (1988) have investigated a lot-splitting model with finite replenishment rate. Lu (1995) extended the model of Goyal (1988) with single set-up and multiple deliveries. Singh and Diksha (2009) proposed a vendor-buyer integration system with progressive delay in payment in which, they assumed the demand as a multivariate function. Hadidi et al. (2011) developed a supply chain system for production scheduling and perfect maintenance. Singh and Singh (2012) proposed an integrated supply chain model for perishable items with trade credit policy under imprecise environment. Tayal et al. (2014) introduced a two layer supply chain inventory model for single vendor and single buyer with different conditions of space availability and lead time. Tayal et al. (2014) also introduced an integrated inventory model for seasonal products with the option of a secondary market considering the lead time. Tayal et al. (2015) presented an integrated production inventory model for perishable products with trade credit period and investment in preservation technology.

Singh and Singh (2007) introduced an EOQ inventory model for Weibull distribution deterioration, ramp type demand and partial backlogging. Singh et al. (2009) presented an EOQ model for perishable items with power demand pattern and the condition of partial backlogging. Kumar and Goswami (2012) introduced a fuzzy economic order quantity (EOQ) models with ramp type demand rate, partial backlogging and time dependent deterioration rate. Tayal et al. (2014) presented a multi item inventory model for deteriorating items with expiration date and allowable shortages. In this model deterioration for the products is assumed to be linear in nature. Tayal et al. (2014) discussed an inventory model for two echelon supply chain of deteriorating items with effective investment in preservation technology. The model is discussed with two different conditions of lead time and preservation technology to reduce the rate of deterioration. After this Tayal et al. (2015) proposed an inventory model for non-instantaneous deteriorating item with time dependent holding cost and exponential demand rate. In this model it is assumed that there are so many products which maintain its quality for a specific period of time. In this duration there will not be any deterioration in these products.

Lead-Time is the time difference between the placement of the order and receipt of it. The lead-time reduction should be considered as a very significant variable in inventory control. Although, the lead-time can either be a constant or a variable, it was often treated as a prescribed parameter in most of the inventory model and consequently not controllable. Very few researchers have developed their inventory models by incorporating reduction of lead-time by an extra crashing concept.



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## Evaluating the efficacy of different bio control agents against *Magnaporthe grisea* under *in vitro* condition

Vipin Kumar, Ajay Kumar, Komal Yadav and Siddarth N Rahul

### Abstract

Rice blast causes yield losses to Basmati rice farmers in worldwide. Although this problem is currently being addressed through the use of resistant rice varieties, fungicide and crop rotation farming, these methods alone do not form a durable, long lasting solution in mitigating disease. Here Antagonistics activity of different bio-agent such as *Chaetomium globosum*, *Trichoderma viride*, *Bacillus subtilis*, *Trichoderma harzianum* and *Pseudomonas fluorescens* tested their efficacy as bio-control agents against to *Magnaporthe grisea*. *Trichoderma viride*, *Trichoderma harzianum* and *Chaetomium globosum* is known for its mycoparasitic properties, whereas *Bacillus subtilis* and *Pseudomonas fluorescens* have antagonistic mechanism for the control of fungal disease. The results showed that the dual inoculation of bio-control agents caused significant ( $p \leq 0.05$ ) inhibition of *M. grisea* as compared to a single agent. The 100% inhibition of the fungal (*M. grisea*) radial growth was recorded *C. globosum* at different time intervals 72, 96 and 120hrs.

**Keywords:** *In vitro* management, *Magnaporthe grisea*, bio-control, dual plate culture

### Introduction

Basmati rice is an important staple food grain crop in the world. Basmati rice is an important export commodity among the food grains in India. The unique feature of "Basmati Rice" such as extra long slender grain, length wise excessive elongation on cooking, soft and fluffy texture of cooked rice, and pleasant aroma which together determine uniqueness of "Basmati Rice". Aside their cooking qualities, "Basmati Rice" also reported to have low glycemic index and are micro nutrient rich especially for iron and zinc (Dwivedi, 1997) [1].

Basmati has attained "Heritage rice" status as it is considered as "Farmers Cultivar" being maintained and grown by farmers of Punjab regions of India and Pakistan. In India its different varieties are mostly cultivated in the districts of Karnal, Panipat, Kurukshetra, Kaithal, Amritsar, Fatehgarh, Gurdaspur, Hoshiarpur, Jalandhar, Patiyala and Sangroor in Punjab, Kangra, Solan, Una and Mandi in Himachal Pradesh, Mundi in Rajasthan and in several districts of Uttar Pradesh. Basmati is grown in limited areas of extent in Jammu and Kashmir. The Basmati rice has special demand in diet and international market. The total area of Basmati rice in India about 2.10 million hectares and production 8.70 million tonnes (Anonymous, 2014- 2015) [2]. The area of Basmati rice in Uttar Pradesh is 354.39 thousand hectare with a production of 1260.69 thousand tons (Anonymous, 2014-2015) [2]. The average productivity of Pusa Basmati-1121 has 35.0 Q/ha this variety is very demand (Anonymous, 2014-15) [2]. Basmati rice farming now a day is facing many environmental problems caused by input of chemical fertilizers and pesticides. The use of chemical fertilizers and pesticides has led to soil decline with fertility, ecosystem damage, elimination of soil and emergence of resistant pathogens. Therefore the use of eco-friendly bio-fertilizers should be encouraged. Beneficial microorganisms have been reported to be involved in maintaining agricultural production, protecting the ecosystem and decreasing the use of chemical fertilizers (Adeemoye and Kloepper, 2009) [3].

*Magnaporthe grisea* (Anamorf *Pyricularia grisea* Sacc. synonym *Pyricularia oryzae* Cav.) causes Basmati rice blast disease in rice cultivation areas worldwide (Chin, 1975, Kato, 2001) [4, 5]. Disease severity has increased recently due to the use of intensive agronomic practices that favour disease development. Blast disease severity is triggered by excess of N fertilization (Faria *et al.*, 1982, Correa-Victoria *et al.*, 2004) [6, 7] as well as rainfall and high humidity.

*[Handwritten signature]*

Shobhit  
University  
Meerut

Engg. & Tech  
University



## Impact of Triple Talaq and Psychological well-being of divorced women in India

<sup>1</sup>Mr. Yatish kumar Sharma, <sup>2</sup>Prof.(Dr.) Rashmi Khorana Nagpal, <sup>3</sup>Dr. Niharika Gaur

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Received: 10 May Revised: 18 May Accepted: 26 May

### Abstract

Today families are facing unprecedented and varied challenges like urbanization, drug/alcohol abuse, breaking down of marriages, changing economic and social condition etc. With the changing concepts, values, added stress and challenging roles of Indian women, marriage in itself has become more of a challenge than ever. Marriage in Indian society is more a religious institution than a legal one. Lack of family unity due to divergent objectives, ambitions, thoughts and ideas; decrease in the family control due to competition; lack of control and unity; conflicts between parents and children due to undue expectation of authority and freedom, and all such precarious areas have become a challenge of modern family. In addition, laxity in marital bonds, availability of alternative satisfaction, misuse of economic freedom etc. yielded up the cause of divorce. It is understood as a relatively permanent union of two peoples implying a number of interlocking status and roles. Muslim marriage is a social contract. Family is never merely a personal matter, because society is so much affected by the quality of its families. In this Research Study, we studied about the adverse effect that Triple Talaq causes to women and the Psychological effects on them.

### I. Introduction

Over the years, Muslim women in India have complained of living in perpetual fear of being thrown out of their matrimonial homes in a matter of seconds because a Muslim man, if he chooses, can end years of marriage just by saying the word "talaq" (divorce) three times. The whole triple talaq issue has become a battleground for the culture versus modernity debate. It is important to realize that women's experiences cannot be understood in these reductive binaries as "she" is produced from the very power relations which subordinate them. In this paper the author deals with the question of triple talaq in the light of the recent petition filed in the Supreme Court for declaring such talaq invalid. Shayara Bano's petition, filed in February 2016, said she was visiting her parents' home in the northern state of Uttarakhand for medical treatment when she received her so-called talaqnama - a letter from her husband telling her that he was divorcing her. She also asked the court to outlaw halala (where a divorced woman has to marry another man and consummate her marriage in order to go back to her former husband) and polygamy (Muslims in India are allowed to take four wives).



## Triple Talaq of married muslim woman: A critical study on India

Mr. Yatish kumar Sharma  
Research Scholar,  
Shobhit University, Meerut

Prof.(Dr.) Rashmi Khorana Nagpal  
Dean of School of law & Constitutional Studies  
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Dr. Niharika Gaur  
Assistant Professor  
School of Law & Governance, Jaipur National University, Jaipur

Received: 12 May Revised: 19 May Accepted: 25 May

### Abstract

India, personal laws are highly significant for citizens to belong to different religious groups. Over the decades, women of the Muslim community are demanding gender equality in the Muslim personal law. This law governs rights related to marriage, divorce, and property. Triple talaq is an age-old practice among Muslims whereby a husband can divorce his wife just by uttering "talaq" three times. This process of divorcing wife is prevalent in India. This system is actually conceptualized from the Hanafi Islamic School of Law. This process of divorce is not universal as many other schools of thoughts are followed in different parts of the world. In some of these schools of thoughts, the divorce process is deferred for a certain period that may be as long as three months. Several Islamic countries have already banned "Triple talaq". Countries like Pakistan and Bangladesh have banned triple talaq where Sunni Islamic jurisprudence is prevailing. In Islamic law, Triple talaq is based on the ground that a husband can divorce his wife any moment if there are sufficient reasons for the divorce. In this Article, we focus on Islamic law, women's position in Islam, and the need for ending the system of Triple talaq.

Keywords: Divorce, triple talaq, triple divorce.

### I. INTRODUCTION

Freedom and progress are two important parameters of human rights. However, several instances could be placed where the presence of human rights has not led to freedom and progress in actuality. The key reason behind this exclusionary nature of human rights is the general assumption on which the rights are based. The negative sides of human rights become evident when the questions of women's rights and progress arise. Women today are caught at the crossroad of narrative modernity and community identity. The rights of Muslim women are throttled in the name of the religious direction. Their rights need to be established through the proper discourse of basic human rights. The current discussions and debates over triple talaq issue are mainly based on Sharaya Bano case, a number of petitions in different courts of the country, and the suo moto PIL of the Supreme Court of India. The apex court in the PIL expressed its concern over the discriminatory provisions in the Muslim personal law prevailing in India. If the rights of Muslim women are the priority, certain sections of the Muslim law need to be amended or abolished. In fact, some parts of the law even go against the constitutional rights given to the citizens of the country. However, the constitutional rights would remain dormant if we fail to understand the manner in which identity politics open out as far as women of this country are concerned. Triple talaq has divided the country, especially the Muslim community into two parts, one those believe the tradition should be continued as it is a part of their culture and others

Date: 12-01-2018

To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

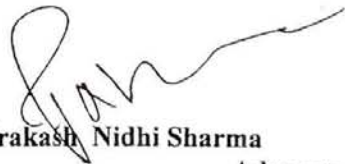
This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology ( Deemed to be University, Meerut on 08-01-2018 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	ADESH KUMAR	LLB
2.	AMITA SINGH	LLB
3.	ANJUM DAYAL	LLB
4.	MOHIT KUMAR	LLB
5.	PANKAJ KUMAR	LLB
6.	VIJAY KANT SHARMA	LLB
7.	SAMAKSH JAIN	L LB
8.	SATENDER PAL	LLB

We request you to please communicate to the selected students to join my office at Opposite Election Office, Civil Compound , District and Session Court, Meerut on or before 25-07-2018 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

  
Prakash Nidhi Sharma  
Advocate

Opposite Election Office  
Civil Court Compound , District and Session Court, Meerut

Prakash Nidhi Sharma  
Advocate Supreme Court of India  
Regn. No.-3375/1994



Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-53, Modipuram, Meerut-250110



Date: 17-01-2019

To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

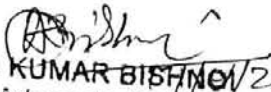
This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology (Deemed to be University, Meerut) on 16-01-2019 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	HARSHIT AGARWAL	LL.B
2.	KAJAL	LL.B
3.	KANWARINDER SINGH SOMAL	LL.B
4.	KAPIL CHAUDHAY	LL.B
5.	LAXMAN SINGH RAWAT	LL.B
6.	M DHIVAGARAN	LL.B
7.	MANISH GUPTA	LL.B
8.	MANISHA MALIK	LL.B
9.	MANOJ KUMAR BADSIWAL	LL.B
10.	MEERA KAUR	LL.B

We request you to please communicate to the selected students to join my office at Chamber No. Chamber No. 02 Collectorate Compound, District and Session Court, Meerut on or before 07-08-2019 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

  
ANUJ KUMAR BISHNOI/2019  
Advocate (Meerut)  
Regn. No.- 6307/2005  
Mob. No.- 9927384547

Anuj Kumar Vishoni  
Advocate

Chamber No. 01 Collectorate Compound, District and Session Court, Meerut

  
Registrar

Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
Meerut-250110



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To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

Date: 17-01-2019

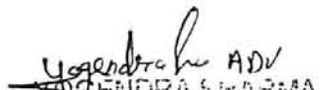
This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology (Deemed to be University, Meerut) on 16-01-2019 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	MANOJ KUMAR DEWAN	LL.B
2.	PURSHOTTAM DAS	LL.B
3.	SAURABH KANSAL	LL.B
4.	AKSHAY KUMAR GILLAN	LL.B
5.	ANUJ KUMAR	LL.B
6.	BINAYAK SANANGI	LL.B
7.	DHEERAJ DIGANI	LL.B
8.	GAURAV	LL.B
9.	GAURAV SHARMA	LL.B
10.	GURPAL SINGH	LL.B

We request you to please communicate to the selected students to join my office at Chamber No. 02 Collectorate Compound, District and Session Court, Meerut on or before 07-08-2019 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.


Thanking You

  
YOGENDRA SHARMA  
Advocate  
Regd.No. 7413/03

Yogendra Sharma

Advocate

Chamber No. 02 Collectorate Compound, District and Session Court, Meerut

  
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Date: 28-01-2019

To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

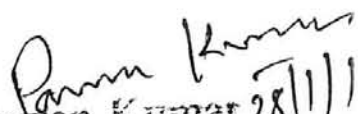
This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology ( Deemed to be University, Meerut on 27-01-2019 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	MOHIT SIWAS	LL.B
2.	MUKESH KUMAR	LL.B
3.	NARESH KUMAR	LL.B
4.	NARESH KUMAR	LL.B
5.	NEHA NEGI	LL.B
6.	NIRMAL GUPTA	LL.B
7.	NITIN SRIVASTAVA	LL.B
8.	PALLAVI VERMA	LL.B
9.	PARVEEN	LL.B
10.	PIYUSH KUMAR SINGH	LL.B

We request you to please communicate to the selected students to join my office at Chamber No. Chamber No. 04 Collectorate Compound ,District and Session Court, Meerut on or before 20-08-2019 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

  
Pawan Kumar 28/1/19.  
Advocate, Meerut  
Ra. No. 5559/06  
Pawan Kumar

Advocate

Chamber No. 04 Collectorate Compound ,District and Session Court, Meerut

  
Registrar

Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
NH-24, Meerut-250111



To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

Date: 12.01.2019

This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology (Deemed to be University, Meerut) on 10.01.2019 to interview the final year students of Integrated Three Years LLB Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate:

Sl. No.	Name of the Students	Course/Program
1.	PRAVEN HARUGERI	LLB
2.	RAGHAV SETHI	LLB
3.	RAHUL TOMER	LLB
4.	RAJESH KUMAR	LLB
5.	RISHI PRATAP SHAHI	LLB
6.	RUCHI ANAND	LLB
7.	SACHIN RANJAN	LLB
8.	SANDEEP BANERJI	LLB
9.	SANGEETA	LLB
10.	SANJAY SINGH	LLB

We request you to please communicate to the selected students to join my office at Chamber No. 83, Opposite Post Office, Collectorate Compound, District and Session Court, Meerut on or before 13-08-2019 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

  
Pawan Kumar Saini  
Advocate  
Meerut

Chamber No. 83, Opposite Post Office,  
Collectorate Compound, District and Session Court, Meerut



  
Shobhit Institute of Engineering & Technology  
Meerut-250118

# A Robust Page Ranking Method based on Link-Visits of Web Page

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Department of Computer  
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**Abstract**— Search engines generally return a large number of pages in response to user queries. To assist the users to navigate in the result list, ranking methods are applied on the search results. Web search engines encounter many new challenges with the increased amount of information on the web. Web documents have been a main resource for various purposes, and people rely on search engines to retrieve the desired documents. This paper proposes a dynamic and efficient Page rank algorithm for search engines to return quality results by scoring the relevance of web documents. The modified Page rank algorithm increases the degree of relevance than the original one, and decreases the time and efforts to find the desired documents from the set of results returned by search engine. Here, a page ranking mechanism called PRLV (Page Ranking based on Link Visits) is being devised for search engines, which works on the basic ranking algorithm of Google i.e. Page Rank and takes number of visits of inbound links of Web pages into account. To make rank value of pages dynamic rather than static, a new concept called PRLV is proposed and described, which takes into account users' behaviour i.e. Link Visit Information, and calculates importance of pages.

**Key Word**- Search Engine, Page Rank Algorithm, PRLV.

## I. INTRODUCTION

Majority of the users fulfill their information needs by employing one of the existing search engines. Many times the search engines seem to be really useful but many other times they do not find what users are searching for. Even, if they find something interesting they have to pass through a slow and time costly process. This process is the filtering and selection of the pages returned by the

search engine as a result of users query in order to find those pages that are really interesting to them. This is a slow process and many times, it requires several iterations where users refine their query and submit it again to the search engine and again the filtering process to check all the results returned starts.

As it is known that the size of the whole WWW is very large. In July 2000, it was estimated to contain about 2.1 billion vertices (pages) and 15 billion edges (links between pages) [15, 18]. Moreover, about 7.3 millions pages are added every day, and many others are modified or removed [20]. In other sources [19], [21] it has been found that: the world produces between 1 and 2 Exabyte's of unique information per year, which is roughly 227 megabytes for every man, woman, and child on earth. An Exabyte is a billion gigabytes, or 10<sup>18</sup> bytes. Printed documents of all kinds comprise only .03% of the total..

A search engine receives user query, processes the query, and searches into its index for relevant documents i.e. the documents that are likely related to query and supposed to be interesting then, search engine ranks the documents found relevant and it shows them as results. This process can be divided in the following tasks:

- **Crawling:** A crawler is in charge of visiting as many pages it can and retrieve the information needed from them. The idea is that this information is stored for the use by the search engine afterwards.
- **Indexing:** The information provided by a crawler has to be stored in order to be accessed by the search engine. As the user will be in front of his computer waiting for the answer of the





# Shobhit

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Deemed to be University

Shobhit Institute of Engineering & Technology  
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Noida  
GATEWAY TO KNOWLEDGE  
Noida-201301  
www.shobhituniversity.ac.in

Ref: SU/RO/ADS/5(MB)/2020

Dated: 29<sup>th</sup> June, 2020

To

Mr. Rajesh Kumar Mishra  
S/o Sh. Om Prakash Mishra  
C-549/1, JVTS GARDEN  
Chattarpur extension, New Delhi  
M- 9953686918.  
rajeshgeetamishra@gmail.com

**Sub: CHANGE OF SUPERVISOR & CO-SUPERVISOR**

Dear Mr. Rajesh Mishra,

- Please refer this University letter No SU/RO/ADS/5(MB)/2018 dated 20 December, 2018 and your application 29<sup>th</sup> June, 2020.
- As per the provisions of Ph.D Ordinance (December-2016 print), the supervisor has been re-appointed as under to supervise your research work. You are requested to contact with your new supervisor for guidance on your research work:-

Enrolment No	2016040028	Registration No	SU/Ph.D/Microbiology./P.T.16/01
Date of Registration	28 <sup>th</sup> August, 2016	Subject	Microbiology
Research Topic	Studies on Cytokines in the Pathogenesis of HIV and HIV Associated Tuberculosis		
Supervisor(s)	Dr. Maya Datt Joshi Assoc. Professor, Coordinator, Dept. of BT) Shobhit Deemed University, Meerut-10 (UP)		
Co-Supervisor	Dr Tung Vir Singh Arya Nodal Officer, ART Centre, LLRM Medical College, Meerut		

Yours Sincerely,

*Ganesh*  
29/06/20

**Dr. Ganesh Bhardwaj**

Offg. Registrar

Copy to :

- Dr. Maya Datt Joshi  
Assoc. Professor, Coordinator, Dept. of BT)  
Shobhit Deemed University, Meerut-10 (UP)
- Dr Tung Vir Singh Arya  
Nodal Officer, ART Centre,  
LLRM Medical College, Meerut

Internal : Dept. of Biotechnology



- for information, please.

*Ganesh*  
Registrar

Shobhit Institute of Engg. & Tech.

(Deemed to be University)

Noida, Meerut-250110



आनुवंशिकी संभाग  
DIVISION OF GENETICS  
भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली-110012 (भारत)  
INDIAN AGRICULTURAL RESEARCH INSTITUTE, NEW DELHI-110012 (INDIA)

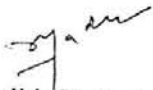


**Dr. Rajbir Yadav**  
Principal Scientist  
Division of Genetics

E-mail: [rajbiyadav@yahoo.com](mailto:rajbiyadav@yahoo.com)  
Ph.: 9868217446

No Objection Certificate

This is to certify that Mr Riham Ansari is working with me as a Junior Research Fellow under the project entitled "Application of Next Generation Breeding, Genotyping and Digitalisation approaches For Improving Gene Gain in Indian Staple Crops" since 8<sup>th</sup> July 2019. He is very sincere and hardworking person and works with zeal and devotion. I have always found him dedicated to work and wish him all the best for his future endeavour. We have no objection for his joining as Ph.D scholar and will relieve him as and when required by the institute.

  
(Rajbir Yadav)  
**DR. RAJBIR YADAV**  
Principal Scientist, Division of Genetics  
IARI, New Delhi  
Indian Agricultural Research Institute  
New Delhi-110012

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
Noida (Sector-16, Gautam Buddha Nagar, Uttar Pradesh-201018)



1182

# Impact Assessment of Long Length Cable on the Performance of Inverter Fed Drive System

Arun Kumar Nayal<sup>1</sup>, Manoj Kumar<sup>1</sup> and Mukhtiar Singh<sup>2</sup>

## Abstract

In process industry, drive systems are used to control the speed of the motors. Majorly induction motors are used in the industry and their speed is regulated by variable frequency drive (VFD). Mostly VFDs are located in the MCC room and motors are positioned in the field i.e. coupled with the driven equipment. VFD and motors are connected with the cable whose length depends on the distance of motor from the VFD. This cable length affects the performance of motor as well as VFD with the increase in distance. This paper presents the effect of cable length on the performance of motor and VFD. To do so an experimental setup was installed in compliance with industrial standards. Two different cable lengths of 200m and 600m were used to analyze the effect of different cable lengths on performance of motor and VFD. The tests were conducted under no-load and on full-load conditions. The voltage and current waveforms were recorded on drive input, drive output side and at motor terminals with Fluke energy analyzer. All the experimental results have been thoroughly analyzed and compared in terms of total harmonic distortion (THD), standing wave effect and cable capacitance.

**Keywords:** VFD, LV motor, Drive system, Cables, Harmonics, Standing wave effect

## INTRODUCTION

With the advancement in control techniques, power electronic devices are becoming more popular and widely used in most of the industries. The conventional DC motor drives are rapidly being replaced by VFD fed AC motors due to their capability of variable speed operation over wide range with enhanced performance. In most of the

process industries, VFDs are located in MCC room, whereas the various motors are remotely placed at different locations at different distances. These distances may be 100m, 300m or 700m but some time it may be as long as 1000m or may be even more. Drive systems used in petrochemical industries and in mining industries usually operate with long motor cables. Mostly the VFD are manufactured or designed by its manufacturer to guarantee satisfactory performance for the

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ORIGINAL ARTICLE

**In Vitro Evaluation of Probiotic Potentials of Lactic Acid Bacteria Isolated from Human Colostrum**

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ABSTRACT

The first thick milk produced immediately after the delivery is called human colostrum (HC). Its composition and functions are quite different than mature milk. It contains high levels of proteins, vitamins, immunoglobulins, carbohydrates, amino acids and many other nutrients. Apart from its nutritional aspects, HC also contains large number of Lactic Acid Bacteria (LAB) with huge probiotic potential. These LAB helps in nourishment, proper growth and development of infants in the early stages of life. The main objective of the study was to characterize and evaluate the probiotic potential of LAB from HC. The study showed several LAB with probiotic potential. The isolated LAB fulfilled all the necessary criteria of a standard probiotics such as growth at low pH, different temperatures, tolerance against bile salts, resistance against antibiotics and antimicrobial activities against common human pathogens. Four isolates of the study were found to be very promising in showing resistance against antibiotics and antimicrobial response against common pathogens such as *Escheria coli* ATCC 25922, *Proteus vulgaris* ATCC 33420, *Staphylococcus aureus* ATCC 25922, *Salmonella typhi* ATCC 733 and *Pseudomonas aeruginosa* ATCC 27853. On the basis of biochemical characterization, the isolates were identified as *Lactobacillus brevis*, *L. acetotolerans*, *L. casei* and *Pediococcus acidilactici*. The present paper deals with the isolation, characterization and evaluation of probiotic potentials of LAB isolated from HC.

**Keywords** : Antagonistic activity, Human Colostrum, Infant Gut, Lactic Acid Bacteria, Probiotics.

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**INTRODUCTION**

For many years, HC was considered to be a sterile fluid, but recent studies have revised this dogma [4]. The period of flow of HC is from 1<sup>st</sup> to 6<sup>th</sup> day of lactation. The milk produced after the 6<sup>th</sup> day is mature milk [7]. HC is a thick fluid rich in nutrients and contains vitamins, proteins, amino acids, carbohydrates and lipids along with several immune cells which provide immunity to infants in early stages of growth and development [2]. Recent studies reveals that apart from all the nutritional aspects of HC, it also contains large number of probiotic bacteria which helps in digestion and protection against infections [18]. The study on milk of Rheses monkey (*Mucaca mulatta*) first showed that milk contains 19 different species of bacteria belonging to 8 genera in its constituents [12]. HC also contains large number of other bacteria [11]. These bacteria also play a very important role in the development of immune system of infant [27]. The number of bacteria in HC are about thrice more than mature milk. The number of bacteria in mature milk lower downs with the continuous regular flow of milk [19]. From the studies carried out in the past, majority of the bacteria isolated from human milk were generally Lactic Acid Bacteria (LAB) [13, 14]. LAB is a large group of bacteria used worldwide as a probiotic. This group of bacteria involves the microorganisms of genera *Lactobacillus*, *Lactococcus*, *Aerococcus*, *Enterococcus*, *Pediococcus*, *Leuconostoc*, *Streptococcus*, *Sporolactobacillus*, *Vagococcus* and *Carnobacterium* [20-22]. The bacteria of these genera have high probiotic potential and have been proven safe for human consumption [8]. The first bacteria that enters the infant gut is from HC. These bacteria enters infant gut through HC and remains in the gut for entire life [21]. The gut microflora get involves in various biochemical processes and serves several functions in the welfare of human gut [6]. LAB have innumerable health benefits such as blood pressure

## Antagonistic Activity of Lactic Acid Bacteria Against Common Enteric Pathogens Isolated from Milk and Milk Products and Evaluation of their Probiotic Attributes

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### ABSTRACT

In the present study we have evaluated the antagonistic spectrum of 8 isolates of *Lactobacillus* against common enteric pathogens followed by auto-aggregation, co- aggregation and cell surface hydrophobicity. Isolate C9 showed antagonistic activity against all test species namely *Bacillus subtilis*, *Bacillus cereus*, *Salmonella enteric*, *Shigella flexneri*, *Streptococcus pneumonia*, *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Pseudomonas aeruginosa*, *E. coli*, *Clostridium perfringens*, *Listeria monocytogens* and yeast *Candida albicans* that were obtained from IMTECH, Chandigarh. G4 showed highest zone of inhibition against *Listeria monocytogens* (20mm) while C28 exhibited highest zone of inhibition against *Shigella flexneri*. Similarly P37 showed against *Salmonella enteric* (24mm); C9 showed highest zone of inhibition against *Pseudomonas aeruginosa* (20mm) and *E. coli* (22mm). All the 8 *Lactobacillus* isolates exhibited the remarkable inhibitory effects against all test pathogenic strains with variable spectrum of inhibition. C9 showed highest auto-aggregation ability (91.6%) and co- aggregation activity against all the pathogens. Amongst all the eight isolates C9 showed noticeable higher hydrophobicity, hence the results suggest that the isolates *Lactobacillus* may be used as natural bio-preservatives in different food products and also to extent the shelf life of food products.

**KEY WORDS:** PATHOGENIC BACTERIA, LACTOBACILLUS, ANTAGONISTIC SPECTRUM, BIO-PRESERVATIVES, SHELF LIFE.

### ARTICLE INFORMATION

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Original Article

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**Key words:** craniospinal irradiation; helical; integral dose; intensity-modulated radiotherapy; RapidArc; three-dimensional conformal radiation therapy

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# Dosimetric comparison of integral dose for different techniques of craniospinal irradiation

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## Abstract

**Aim:** Comparison of the integral dose (ID) delivered to organs at risk (OAR), non-target body and target body by using different techniques of craniospinal irradiation (CSI).

**Materials and methods:** Ten CSI patients (medulloblastoma) already planned and treated either with linear accelerator three-dimensional conformal radiation therapy (Linac-3DCRT) technique or with linear accelerator RapidArc (Linac-RapidArc) technique by Novalis-Tx Linac machine have been analysed. Retrospectively, these patients are again planned on Radixact-X9 Linac with Helical, Direct-3DCRT and Direct-intensity-modulated radiation therapy (Direct-IMRT) techniques. The dose prescription to planning target volume brain (PTV-Brain) and PTV-Spine is 36 Gy in 20 fractions and is kept the same for all techniques. The target body, non-target body, OARs and total body dose are compared.

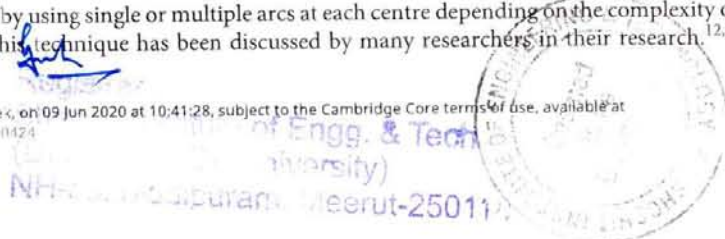
**Results:** ID is lowest in the RapidArc plan for every patient in comparison to Helical and Direct-IMRT. The ID for Body-PTV was found slightly higher in the RapidArc plan in comparison to 3DCRT plans. But there is better normal tissue sparing for most of the OARs in RapidArc plans if it compares with 3DCRT plans.

**Findings:** RapidArc is a better alternative for the treatment of CSI. It provides better target coverage and better OARs sparing from any other treatment techniques.

## Introduction

Medulloblastoma is the most common malignant neoplasm of the central nervous system in children, constituting roughly 20% of all paediatric brain tumours. It is less common and accounts for <1% of adult brain tumours.<sup>1</sup> Craniospinal irradiation (CSI) is used in the management of medulloblastoma.<sup>2</sup> With the recent advancement of new technology, there is an improved outcome for these patients, with the introduction of modern radiotherapy techniques.<sup>3,4</sup> A more mature understanding of the biology of the disease has led to a contemporary clinico-biological risk stratification system for assigning prognosis and deciding treatment.<sup>5</sup> The current standard of care consists of maximal safe resection followed by radiotherapy and chemotherapy, yielding a 5-year survival rate of >80% for average-risk medulloblastoma and >50% for high-risk disease.<sup>6</sup> Radiotherapy for medulloblastoma entails irradiation of the entire neuraxis, that is, CSI with a homogeneous dose. This still remains one of the most technically challenging processes in radiotherapy planning and delivery because of the need to irradiate a very large and complex-shaped target volume uniformly. With continuous improvements in long-term survival, particularly in children with average-risk medulloblastoma, there is a growing concern regarding treatment-related long-term side effects. These include neurocognitive decline, hearing impairment, growth retardation, endocrine dysfunction, cataract formation, cardiomyopathy, impaired fertility and second malignancies.

Field shaping for CSI changed from traditional bony landmarks using two-dimensional (2D) planar radiographs to the advanced computed tomography (CT) simulation techniques.<sup>7,8</sup> Modern CSI techniques have developed with the aim of reduced long-term side-effects in the majority of patients. Conventionally, two lateral fields for the brain and two or three posterior fields for the spine to treat the entire craniospinal axis. Due to field-size restriction, linear accelerator-based three-dimensional conformal radiotherapy (Linac-3DCRT) and, linear accelerator-based volumetric arc therapy (Linac-RapidArc) required field matching of junctions by feathering. Separate isocentre reduced dose homogeneity at junction points and increases overall planning complexity.<sup>9,10</sup> Volumetric-modulated arc therapy (VMAT) is also a multi-isocentric technique for CSI. VMAT can achieve a highly homogenised and conformal dose distribution by using single or multiple arcs at each centre depending on the complexity of target volume.<sup>11</sup> This technique has been discussed by many researchers in their research.<sup>12,13</sup>





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Ref: SU/RO/ADS/5(BI)/2020

Dated: 30 July, 2020

To,  
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**URDC Result – Confirmation of Ph.D. Registration**

**Dear Student,**

- Further to our letter No SU/RO/ADS/5(BI)/2019 dated 12<sup>th</sup> December, 2019.
- URDC, in its meeting held on 21<sup>st</sup> July, 2020 has approved the following :-

Synopsis	: Approved.
Registration	: Confirmed
Enrolment No	: 2019010003
Registration No	: SU/Ph.D/P.T./BI/01/2019
Date of Registration	: 14.12.2019
Subject	: <b>Bioinformatics</b>
Approved Research Topic	: <b>Isolation, Characterization and <i>Insilco</i> Analysis of Alkalophilic Bacteria</b>
Supervisor(s)	: <b>1. Prof. (Dr.) Amar P. Garg , Vice Chancellor (Supervisor) Shobhit Institute of Engg. &amp; Technology (Deemed to-be University), Meerut -10</b> <b>2. Dr. Pallavi Mittal, I.T.SIHAS, Ghaziabad (Co-Supervisor)</b> <b>3. Dr. Vibha, K.N. Modi, Modinagar (Co-Supervisor)</b>
School /Department	: <b>School of Biological Engg. &amp; Life Sciences (Dept. of BM/BI)</b>

- You are advised to carry out your research work and forward six monthly progress report in accordance with the Ph.D. Ordinance-2016 for our further necessary action. Proforma of progress report is enclosed herewith.

Yours Sincerely,

**Dr. Ganesh Bhardwaj**

**Offg. Registrar**

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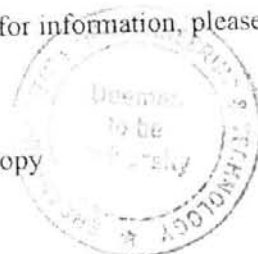
- Prof. (Dr.) Amar P. Garg, VC. & Supervisor**  
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- for information, please.

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Meerut-250110



## Research article

Beneficial effect of standardized extracts of *Amorphophallus paeoniifolius* tuber and its active constituents on experimental constipation in rats

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## ARTICLE INFO

## Keywords:

Food science  
Pharmaceutical science  
Loperamide  
Rats  
Constipation  
Glucomannan  
Betulinic acid  
HPTLC

## ABSTRACT

The tubers of *Amorphophallus paeoniifolius* (Elephant foot yam), principally consumed as crop food and vegetables, are used in ethno-medicinal practices in mitigation of constipation and piles. Hence, present study evaluated the effect of tubers of *A. paeoniifolius* and its active constituents glucomannan and betulinic acid on experimentally-induced constipation. The tuber and its extracts were standardized as per Ayurvedic Pharmacopoeia of India and physicochemical constants were found within the pharmacopoeial limit. HPTLC fingerprint profile of extracts has been developed using suitable mobile phase. Methanolic extract was subjected to column chromatography. The isolated phytoconstituents were characterized by FT-IR, NMR and MS and identified as betulinic acid and  $\beta$ -sitosterol. Functional constipation was induced in rats by oral administration of loperamide (3 mg/kg) for first 3 consecutive days. The rats were orally treated with methanolic and aqueous tuber extracts in the doses of 125, 250 and 500 mg/kg, glucomannan (300 mg/kg) and betulinic acid (1.5 mg/kg) for 7 days. The parameters viz. number of stools, wet weight of stools and moisture content of stools and intestinal transit were studied. Treatment with tuber extracts, glucomannan and betulinic acid showed significant ( $p < 0.05$ ) increase in fecal parameters and intestinal transit in constipated rats. The effects were comparable to standard laxative drug, sodium picosulfate (5 mg/kg, orally). The results indicated that tuber extracts and its active constituents showed laxative effect and relieved constipation. It is concluded that tuber of *A. paeoniifolius* exhibited beneficial effect in functional constipation possibly through its laxative action. The study validates its ethno-medicinal use in correction of constipation. The principal constituents, betulinic acid and glucomannan in tuber extracts might have played important role in relieving the constipation.

## 1. Introduction

*Amorphophallus paeoniifolius* (Dennst.) Nicolson (family: Araceae) is an Ayurvedic medicinal plant useful for the treatment of gastrointestinal diseases viz. hemorrhoids, vomiting, anorexia, dyspepsia, flatulence, constipation, etc. (Anonymous, 2008; Nair, 1993). It is consumed by various tribes of India for mitigation of constipation, hemorrhoids and abdominal pain in ethnomedicinal practices (Rahman et al., 2013; Devi Prasad et al., 2013; Yesodharan and Sujana, 2007). Previous findings indicated that an oral administration of the tuber extracts in normal healthy rats produced significant increase in fecal output and the stimulation of intestinal motility (Dey et al.,

2016). Several medicinal plants with prokinetic activity showed beneficial effect in constipation (Kakino et al., 2010; Muhammad et al., 2013). The content of glucomannan in the tuber extracts was also high (Dey et al., 2016). Further, we isolated betulinic acid and  $\beta$ -sitosterol from the tuber extract by column chromatography (Dey et al., 2017a), however, they were identified based on thin layer chromatography. Hence, the present study was conducted to characterize the isolated compounds of *A. paeoniifolius* tuber extracts and to investigate the effect of tuber extract and its constituents (glucomannan and betulinic acid) on experimental constipation on loperamide-induced constipation in rats and its modulation by standard laxative agent.

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present I am supervising the work of 05 Research Scholars and out of this 03  
Research Scholars have completed two years from the date of their registration. My bio-data is given  
(please give the list of Research scholars who are at present working under you)

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3. Designation Professor
4. Institute/University/Department Ajay Kumar Bery Engg College, Khasi
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P.O. Kavi Nagar Distt. Khasiabad
  - (b) Local W-220, Govindapuram,  
Khasiabad, UP-201013
6. Educational Qualification Ph.D. (CS & IT)
7. Experience (in years)
  - (d) Research :
  - (e) Teaching : 17 years
  - (f) No. of students already guided for Ph.D. : 01
8. Area of specialization Digital watermarking Steganography.
9. Number of Publications/Books etc : 08
10. Any other information

Dated 06/12/2017

Shobhit Jaiswal  
Co-supervisor  
(Signature)

Dr. B. Sharma  
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To

Dr. Alpana Joshi

Assistant Professor

Shobhit Institute of Engineering and Technology


(Deemed to be University), Meerut

**Subject: Appointment as an External expert for Biotechnology Students**

**Dear Dr. Joshi**

As per our discussion, this is to inform you that we are appointing you as an external expert our Biotechnology students. This collaboration for student promotion and education would effect from 2019-2021. We are highly thankful for your efforts.

Thanks and Regards

  
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5 Sept, 2019

## Appreciation Letter for Collaboration

With due respect this is to be stated that we are very thankful for organizing an eye opening session on Mobile Phone and Mobile Tower: Health Hazards in collaboration with Smt. Vimla Devi Educational & Welfare Trust and Mr. Aniket Kumar, Assistant Professor, Shobhit University, Meerut on Sept05, 2019.

We appreciate and acknowledge for the help and efforts for conducting a successful program for our students.

We look forward to an active role in this collaboration.



Smt. Vimla Devi  
Educational & Welfare Trust



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Ref.: Award/2019/A10

Dated: February 10, 2019

## SVD-EWT Extension Activity Award

This award conferred to

Dr. Ashok Gupta

*in recognition of outstanding work done in the field of  
Leadership & Motivation Activity for School Students at N.D.  
Public School Gangoh, Saharanpur*

Secretary

Vinod

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Member: People for Animal, New Delhi  
 & Social Activist RTI  
 mannusinghadvocate@gmail.com



क्रमांक ...०००१.....

दिनांक २३/०३/१७

( सराहना पुरस्कार )

ग्राम पंचायत मैथना इन्द्रसिंह को आते दृष्ट हो रहा कि  
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 आयोजन किया। उन्होंने गाँव वालों को क्यूरी सुझाव  
 दिए जो कि उनके लिए सर्वाधिक लाभकारी रहे।  
 डॉ० इरान जी अपने छात्र-छात्राओं के साथ यहाँ  
 उपस्थित रहे। ग्राम पंचायत इसके लिए आभारी है।

६-२११९



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**To Whomsoever It May Concern**

This is to certify that Dr. Mamta Bansal, Professor, Shobhit University was associated as a consultant on a collaborative project with our company for a period of 1 year (2019-20). She has a wide knowledge in computer aided drug designing and having good exposure in bioinformatics research.

She has performed her duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish her all success in her future endeavours.

A handwritten signature in black ink, appearing to read "Mamta Bansal", written over a horizontal line.

Director

A handwritten signature in blue ink, appearing to read "Registrar", written over a horizontal line.

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**CLUB  
FACTORY**

Date: 25/08/2019

To,  
Shobhit Institute of Engineering & Technology,  
NH-58, Modipuram, Meerut - 250110

SUBJECT: TRAINING SESSION FOR EMPLOYEES ON PYTHON PROGRAMMING

Dear Registrar Sir,

I would like to request you to arrange some CSE Faculty to take training session on Python Programming. As we know that Shobhit University have best CSE faculties all around the Meerut.

So, kindly assign this task to some of your senior CSE Faculty, I will be very obliged. Please share the schedule after acknowledgement.

Sincerely,  
[FOR CLUB FACTORY, INDIA]

Head, CLUB FACTORY INDIA



Date: 25/08/2019

Shobhit Institute of Engineering & Technology  
NH-58, Modipuram, Meerut

A-16, 1st Floor, Vasant Kunj Marg, Aruna Asaf Ali Marg,  
Outab Institutional Area, New Delhi-110067

Registrar

Shobhit Institute of Engineering & Tech.

NH-58, Modipuram-250110



To,

Dr. Manisha Rastogi

Professor, Shobhit University, Meerut

**Regarding:** Collaborative Activity at Rudraksha Research Centre

Dear Professor

We request you to organize collaborative event on Rudraksha Jewellery making at village Maithana Meerut Uttar Pradesh. Our team members will support you during this event and it would be helpful for the villagers to form the self-help groups. We will highly thankful to you.

Regards

Deeraj Bhardwaj  
19/01/2019



Gali No. 3, Phool Bagh Colony, Meerut-250002

Mob No: +91-8279941057

Email: [aananditrudraksham@gmail.com](mailto:aananditrudraksham@gmail.com)

Registrar  
Institute of Engineering & Tech.  
(Deen Dayal Upadhyay)  
NH-58, Meerut, Meerut-250110




# Shobhit

Institute of Engineering & Technology

EDUCATION EMPOWERS

## Activity Report

<b>Title of the Activity:</b>	Cultivation and blooming of Gladiolus in sub-tropical climate of Meerut (NCR)	
<b>Date</b>	October, 2019 to April, 2020	
<b>Coordinator of the activity</b>	Professor Amar P. Garg (Biotechnology)	
<b>Conducting Department</b>	Department of Biological Engineering	
<b>Total Number of the Participants</b>	Participants: 8	
<b>Purpose of the Activity</b>	Collaborative Research to develop the technology to explore the possibilities of cultivation and blooming of Gladiolus in sub-tropical climate of Meerut (NCR).	
<b>Venue</b>	SIL campus Meerut	
<b>Resource collaboration</b>	<b>Person/In</b>	Dr. Manoj Nair, from National Gladiolus Trust and Professor Amar P. Garg (Biotechnology) and Dr. Sarabhi Tyagi (Agriculture-Agronomy)
<b>Financial Support</b>	Rs. 1,00,000	
<b>Photographs</b>		
	Students working in field	Blooming of Gladiolus
<b>Outcome of the Activity</b>	Our collaborative research suggested that Gladiolus may be cultivated in sub-tropical climate like Meerut.	
<b>Feedback:</b>	Gladiolus may be cultivated in sub-tropical climate like Meerut.	

Signature of the Programme Coordinator

Signature of the Dean/ODD Director

Shobhit Institute of Engineering and Technology  
NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

Registrar  
Shobhit Institute of Engineering & Tech  
(University)  
NH-58, Modipuram, Meerut-250110

# GYANSTHALI PUBLIC SCHOOL

(SENIOR SECONDARY)

Affiliated to C.B.S.E., New Delhi. (Aff. No. 2130790)



18/8/19

This is to certify that Dr. Maya Dutt Joshi and Ayush Madan organized a health checkup camp in association with Kunwar Shekhar Vijendra Ayurvedic Hospital, Gangoh & Shobhit Deemed-to-be University, Meerut at our Institute. The student and local people are benefitted by this camp. With such initiative of Shobhit University, we are highly obliged and hope to organize such more activity in future also.

Director

Gyansthal Public School  
Miranpur (Muzaffarnagar)  
UP-251315 Aff.No. 2130790



Engg. & Tech.  
(U.P.)

Meerut-250114



**Shobhit University**  
(Shobhit Institute of Engineering & Technology)

EDUCATION EMPOWERS

**Shobhit University**  
Established u/s 3 of UGC Act, 1956  
NH-58, Modipuram  
Meerut 250110, INDIA  
T: 0121 2575091, F: 0121 2575724  
E: mail@shobhituniversity.ac.in  
U: www.shobhituniversity.ac.in

To

The Principal/Manger,

उ० उ० प्राध्यापिक वि० पिलवाडा  
प्रखण्ड - त्रिवेणीगंज (मुपौल)  
पिनकोड- 852214 (बिहार)

**SUBJECT:** Regarding the Permission of Four Month Internship of 1 Year B.E. Students.

Sir/Madam,

As per the norms of NCTE, Every pupil teacher can engage with 40 weeks of school internship in 1 year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be University) is organizing this programme for first week of Jan 2020 to March 2020 (4 months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will do your duties like a teacher. They will teach lessons and maintained their daily teaching records and participation /organized any co-curricular activity record.

So, it is request that please give the permission for your kind co-operation.

*Sharma*

Principal  
Shobhit University Meerut

Thanking you  
Dr Parul Sharma  
H.O.D  
SCHOOL OF EDUCATION

*Sharma*  
01.03.2020

प्रधानाध्यापक  
उ० उ० प्राध्यापिक वि० पिलवाडा  
प्रखण्ड-त्रिवेणीगंज (मुपौल)



A NAAC Accredited University

*Sharma*  
Registrar

Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110

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प्रशस्ति पत्र



# IIMT UNIVERSITY

Act No. 2 of 2016  
G.P.O. Registered Post Office, Meerut-250009

Registrar  
IIMT University of Engg. & Tech.  
(Deemed to be University)  
IIMT, Post Bag No. 250009, Meerut-250009

को महिला सशक्तिकरण के क्षेत्र में किये गये अप्रतिम

संशोधन सशक्त नारी सम्मान से सम्मानित किया जाता है।

*Signature*

योगेश मोहनजी गुप्ता  
कुर्नाधार्यति



*Signature*

डॉ० अनाक कपूर  
कुर्नाधार्यति

*Signature*

डॉ० मॉनिका मेहराजा  
समन्वयक

**International Knowledge Press**



# Journal of Economics and Trade

**Certificate No: IKP/PR/Cert/9548/PRE**

**Certificate of Excellence in Peer-Reviewing**

**awarded to**

**Preeti Garg**

**Shobhit Deemed to be University, India**

**in recognition of an outstanding contribution to the quality of the journal.**



*P. Mondal*  
**(Mr. P. Mondal)**  
**Managing Editor**

**International Knowledge Press**

International Knowledge Press

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5



श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नू सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,  RIGHT TO  
INFORMATION

क्रमांक 19/22.....

दिनांक 25/07/2019


**Appreciation Letter for Collaboration**

The Inder Singh Maithana, Dulhera, Meerut and Dr. Rashmi Nagpal and Mohd. Imran from Shobhit University, Meerut has collaboratively organized an awareness program on Human Rights on July 25, 2019.

We acknowledged the efforts in conducting such activities and look forward to an active role in this collaboration.

अनीता



  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
Road, Meerut-250110

  
Date: 25/07/2019

मान्यता प्राप्त

# शिवम उ० मा० विद्यालय, मालैण्डी

जनपद-शामली (उ० प्र०) मो० : 9719637173, 8923686745

पत्रांक - 026

दिनांक, 17/9/2019

मैं आभार व्यक्त करता हूँ शोभित विश्वविद्यालय  
का और हादिके खुशी के साथ डा० मायादेव  
जोशी और रूपेश कुमार, वायोटेक्नोलॉजी  
विभाग, शोभित मेरठ से दोनों अध्यापकों ने  
जीवविज्ञान के विद्यार्थियों को NEET की तैयारी  
कैसे करनी है। शोभित विश्वविद्यालय से हमारे प्रांगण  
में रसायन विज्ञान और भौतिकी विज्ञान के अध्यापक भी  
पिछले एक साल से जुड़े हैं।



Principal  
Shivam H.S. School  
Malendhi (Shamli)

  
Principal

Department of Engg. & Tech.

250111

UDISE Code - 10190404015

School Code - SAM/TAJ/07

# CHANAKYA INTERNATIONAL SCHOOL


English Medium/Co-Education/CBSE Syllabus

N.H.-28, Tajpur (Samastipur)


## To Whome it Concern

This is to certify that Dr. Sandeep Kumar, Professor, Shobhit University, Meerut is working on some innovative collaborative ideas with our Biology teacher school students. This Collaboration is to motivate the studnets for effective work and to implement the theory into practical outcome. We are thankful to Dr, Sandeep kumar. This collaboration is effective from 2019-2020.

Regards

  
Principal  
Chanakya International School  
Tajpur, Reg. No. SAM/TAJ/07



  
Registrar  
Shobhit University  
Department of Engg. & Tech.  
Meerut-250114

श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नू सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com, 


क्रमांक ..316.....

दिनांक.....15.08.19

हमें यह बताते हुए बहुत खुशी हो रही है कि डॉ संदीप कुमार प्रोफेसर शोभित विश्वविद्यालय, मेरठ ने दिनांक 15/08/2019 को अवधारणात्मक योग खेती: राष्ट्रीय समृद्धि की ओर एक कदम पर किसानों और छात्रों के बीच एक खुला विचार-विमर्श किया। किसानों और राष्ट्र के विकास के लिए इस प्रयास की बहुत सराहना की जाती है।

अनिता



  
Principal  
Department of Engg. & Tech.  
(Meerut University)  
NH-28, Meerut-250110

संख्या १०७४

दिनांक ०२/१२/२०१७

**राजकुमार सिंह**

प्रधान

ग्राम पंचायत कालन्दी

नर. माधवा, जिला मंडल

फोन नं. ०१७५४२३३९५

फा. ०१७५४२३३९५

०६३६९०२३९

दिनांक ०२/१२/२०१७

आर्किटेक्चर फरार-कार

मुझे यह बताते हुए पुरानी हो रही है कि  
डॉ० अल्पना जोशी और डॉ० सौरभ ताम्गी शैक्षणिक इंस्टीट्यूट  
ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (डीमट हू लो प्रिविलिजि) के  
द्वारा नए ग्राम कालन्दी, तह. राखला (मेरठ) के किसानों को  
विभिन्न सिंचाई विधियों (जैसे काल प्रबंध की नई तकनीकों  
के साथ प्रशिक्षण दिया जिनका उपयोग कर लिया



*[Handwritten signature]*

अवधीय  
ग्राम प्रधान



*[Handwritten signature]*  
Institute of Engineering & Tech.  
(U.P. Govt.)  
Meerut-250118


श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्नु सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delh

& Social Activist RTI  
mannusinghadvocate@gmail.com,  RIGHT TO  
INFORMATION

क्रमांक ...214.....

**Appreciation Letter for Collaboration**

दिनांक...15.8.2

We are pleased to appreciate in collaboratively organizing the Plantation Drive with Inder Singh Maithana, Dulhera, Meerut and Dr. Saurabh Tyagi, Shobhit University, Meerut on Aug 15, 2019.

We acknowledged the efforts in conducting such activities to combat many environmental issues.

We look forward to an active role in this collaboration.

अनिता



  
Principal (Engg. & Tech  
Shobhit University)  
Meerut-250110

श्रीमती अनिता जाटव  
प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत दौराला (मेरठ)  
मो. 8923022406, 9917307402



मन्जू सिंह

एडवोकेट  
सदस्य, ग्राम पंचायत  
मैथना, इन्द्रसिंह

Member: People for Animal, New Delhi

& Social Activist RTI  
mannusinghadvocate@gmail.com,



क्रमांक 018/2019.....

दिनांक 27/11/2019.....

प्रमाणित किया जाता है कि डॉ. सौरभ त्यागी शोभित विश्वविद्यालय, मेरठ ने ग्राम प्रधान मैथाना के सहयोग से कृषि प्रौद्योगिकी और पर्यावरण पर एक खुली चर्चा का आयोजन किया है। इस कार्यक्रम में 50 से अधिक ग्रामीणों ने भाग लिया। कार्यक्रम का आयोजन 27/11/2019 को किया गया था।

हम उनके बहुत आभारी हैं

अनीता

(अधिकांश)

प्रधान  
ग्राम पंचायत मैथना इन्द्रसिंह  
क्षेत्र पंचायत-दौराला (मेरठ)



Registrar  
Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya & Tech  
(Dee. 11/2019)  
NH-58, New Delhi-110011

# ग्राम पंचायत छुर विकास खण्ड सररपुर खुर्द

भीमती प्रभा

त0 सरधना (मेरठ) उ.प्र.

संस्थापना और विकास विभाग

2019/2020

04-10-2019

## आभिमूल्यन फुकर-काव

मुझे यह बताते हुए वेहद खुशी हो रहा है कि शामिल स्टार्टअप डॉक इं-प्रोविडिंग एवं प्रोग्रामिंग (डीएनए-युनिवर्सिटी) के डॉ० सौरभ व्यासी, डॉ० संदीप कुमार एवं डॉ० रश्मि नरवान ने जल मशकम पर ग्राम छुर तहसील सरधना जिला मेरठ उ०प्र० में रचना करने के लिए तथा आवेदन के लिये लोगों का शिक्षित किया।

*[Handwritten signature]*

सचवाप  
 - ग्राम प्रधान  
 - छुर सरधना तहसील  
 - जिला मेरठ

*[Handwritten signature]*





# राम कुमार मिश्रा मेमोरियल इण्डर कॉलेज

फरीदपुर (बरेली)

पत्रांक।

दिनांक. 01/04/2019

मुझे यह आवेदन के साथ सूचित करवा है कि शोभित इन्स्टीट्यूट ऑफ इंजं एवं टेक्नोलॉजी के डी.ए.ए. के. प्रीमियर मेरठ के विश्व कृषि विज्ञान विभाग के डा. शशिदा तिवारी ने आर्गेनी फार्मिंग के बारे में हाले को जानकारी प्रदान किया। विश्वविद्यालय ने आने वाले वर्षों में कृषि क्षेत्र को उद्योगिक के बारे में जानकारी प्रदान किया। इस तरह का आयोजन विश्वविद्यालय में आयोजित होना निश्चित है। इस कार्यक्रम का संचालन में विद्यालय के एवं विश्वविद्यालय का समर्थन एवं सहायता का आभार प्रदान करता है।



*[Signature]*  
Registrar

Eng. & Tech  
(University)  
NH-58, Faridpur, Bareilly-250110

*[Faint stamp and signature]*

To,  
Dr. Vishal Bishnoi,  
HOD,  
Department of Management,  
Shobhit University  
Meerut, Uttar Pradesh

Date: 17.07.19

Sub: To request your good self to provide consent for becoming a reviewer for  
**International Journal of Innovative Practices and Applied Research (ISSN: 2349-8978).**

Dear Sir,

This is to request your good self to kindly consent in becoming the reviewer for International Journal of Innovative Practices and Applied Research (ISSN: 2349-8978). This is a bi-annual multi-disciplinary journal. We get papers from across India and we strive very hard to maintain the quality of the papers. We have got your reference from Dr.Soumendra Nath Bandyopadhyay, Director of Haldia Institute of Management and Senior Editor of IJIPAR, Haldia, West Bengal.

We would be highly obliged if you could kindly grant this request.

Thanks & Regards,



(Dr.Kousik Paik)  
Editor, IJIPAR  
&  
Associate Professor  
Haldia Institute of Management  
Email:himhaldia@gmail.com



Research Article

ANTIOXIDANT AND *IN-VITRO* CYTOTOXIC ACTIVITY OF ROOT EXTRACTS OF  
*FRITILLARIA ROYLEI* USING HUMAN LYMPHOMA CELL LINES

Gunpreet Kaur<sup>1</sup>, Vikas Gupta<sup>1</sup>, Mukesh Maithani<sup>2</sup>, Malika Arora<sup>2</sup>, RG Singhal<sup>3</sup>,  
MD Joshi<sup>3</sup> and Parveen Bansal<sup>1\*</sup>

<sup>1</sup>University Centre of Excellence in Research, Baba Farid University of Health Sciences, Faridkot-151203, Punjab  
<sup>2</sup>Multidisciplinary Research Unit, Guru Gobind Singh Medical College and Hospital, Faridkot-151203, Punjab  
<sup>3</sup>Shobhit University, Meerut-250 110, Uttar Pradesh

DOI: <http://dx.doi.org/10.24327/ijrsr.2019.1007.xxx>

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Article History:

XXXX

Key Words:

*Fritillaria roylei*, Antioxidant, DPPH,  
Cytotoxic activity, MTT assay, Cell lines.

ABSTRACT

Drug discovery from medicinal plants has played an important role in the treatment of cancer. Cancer is considered as one of the dangerous disease associated with abnormal, uncontrolled growth of cell. There are about 13,000 plant species worldwide that are known to have been used as drugs. These plant species contain biologically active compounds that protect human health with respect to human carcinogenesis, acting against initiation, promotion or progression stages or destroying/blocking the DNA damaging mutagens, thus avoiding cell mutations. It is believed that herbs play vital role in the prevention and treatment of cancer. *Fritillaria roylei* (Kashirkakoli) contain different active compounds like peimine, peiminine, peimisine, peimiphine, peimidine, peimitidine, propeimin, stero, and these active compounds possess different pharmacological activity like galactagogue, haemostatic, ophthalmic and cytotoxic properties. So it was pertinent, to evaluate antioxidant and *in-vitro* cytotoxic potential of root extracts of *Fritillaria roylei* against human lymphoma cell lines. Antioxidant activity and *in-vitro* cytotoxic activity of the extracts were measured using DPPH radical scavenging method and lymphoma cell lines Jurkat and u937 respectively through MTT assay. The methanol extract of the plant showed potent antioxidant activity in a concentration dependent manner and decreased cell viability and cell growth inhibition in a dose dependent manner. Further studies are in progress to find out the active isolated compounds responsible for these activities.

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INTRODUCTION

Cancer has been considered as the major threat all over the world. Specifically, in India it is highly prominent. It is the diseases caused by loss of cell cycle control and has been characterized by proliferation and differentiation of abnormal cells that give rise to undifferentiated mass of cells like lobe<sup>1</sup>. At present, chemotherapy and radiotherapy treatments are followed by doctors for the treatment of various types of cancers but even though the rate of survivability was found to be limited and also possess various side effects<sup>2</sup>. There is a widespread belief that green medicines are healthier and safer than synthetic ones<sup>3</sup>. Nature provides the store house of remedies to cure all ailments of mankind. Medicinal plants symbolize a huge probable source for anticancer compounds and also support the immune system, by improving body resistance against the disease<sup>4</sup>. Plants have long history in the treatment of cancer<sup>5</sup>. Recently, the use of traditional medicine

information on plant research has again received considerable interest and worldwide efforts are made to discover new anticancer agent from the plants<sup>6,7</sup>. The National Cancer Institute has screened about 35,000 plant species that possess activity against cancer<sup>8</sup>. In traditional system of medicine, there are many natural crude drugs obtained from the plants that have the potential to treat various threat full diseases and disorders and one of them is *Fritillaria roylei* (Kashirkakoli).

*Fritillaria roylei* (Kashirkakoli) is a perennial herb that belongs to family Liliaceae. *Fritillaria roylei* is the one of the important plant out of eight plants of Ashtawarga. *Fritillaria roylei* is a rare species found at an altitude around 3800- 4700 m above the sea level. It is commonly regarded as an ornamental plant but traditionally used in a number of important ayurvedic formulations<sup>9</sup>. The best known Ayurvedic formulation is 'Chywanprash' which is used as a tonic to cure number of diseases. *Fritillaria roylei* is used primarily to treat various

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# Developing a Model for Sentiment Analysis Technique in the field of Tourism using Deep Learning

Harsh Arora, Mamta Bansal

**Abstract**— This paper provides a platform for analyzing and summarizing the sentiments expressed by users or customers in the field of online tourism. The objective of this research is to analyze online reviews of all the users to propose a new optimized business model to improve present services of business organization to enhance profit and customer satisfaction. The proposed system filters tourism online reviews and classifies them using sentimental technique with the help of deep learning technique. Deep learning technique will not only identify the polarity of online reviews but also recognizes relevant patterns deeply to find the hidden reviews details. After applying the deep learning technique, the results will be generated through which we can find the inferences. These inferences would provide a great help for improvisation of the subject. In this research a new optimized business model will be implemented using deep learning technique so that we would be able to compare new business model with the present system [1]. The relevance of this research lies in helping tourism industries to understand the social sentiment of their brand, product or service while monitoring online conversations. It helps in enhancing business profits by running online websites throughout by giving best services to the online users or customers.

**Keywords**—machine learning, deep learning, sentimental analysis, online tourism

## I. INTRODUCTION

Innovation and the Internet have changed how travel is reserved, the connection among voyagers and the travel industry, and how vacationers share their movement encounters. Because of this assortment of choices, mass the travel industry markets have been scattering. Be that as it may, the worldwide interest has not fallen; a remarkable opposite, it has expanded. Another fundamental factor, the propelled change, is getting hold to accomplish new client profiles, especially the alleged third time of the movement business purchasers, automated local people who simply appreciate the world through their online closeness and who exploit the majority of its focal points. In this unique situation, the advanced stages where clients distribute their impressions of the travel industry encounters are beginning to convey more weight than the corporate substance made by organizations and brands. Tourism for several native cities is one in all the foremost necessary key industries. The activation of touristy results in the activation of the native industries and communities.

Individuals accept the opinions of friends and family and use them as a reference for booking hotels, designing their journeys and to make purchase choices. Researches shows sixty fifth of leisure travelers searches on-line before preferring a travel destination, and sixty-nine of their plans are determined by on-line travel reviews. Role of client engagement ways for managing customer-brand relationships is currently essential within the touristy trade. Social Network Sites (SNS) became a basic part for each customers and business promotion to extend the scope of already established relations. SNS like Facebook, LinkedIn, Twitter have attracted scores of users that at the same time share data with an outsized range of individuals. the planet of business enterprise is dynamical isn't news. There are a lot of and a lot of knowledge, each structured and unstructured, being generated at ever higher rates, that once reworked into data, which give a tangible price to businesses. As huge knowledge is quickly increasing in each space, thus is that the case of business enterprise trade or the other field further wherever huge quantity of knowledge is to be handled, extracted and managed so as to run e-commerce sites or business a lot of swimmingly. The utilization of programmed devices in interpersonal organizations for the travel industry division has produced sufficient writing because of the significance impacting the purchaser's cooperation and influencing the manner by which vacationers see their experience. This can be conceivable by knowing the audits of online clients that might be available in any type of information. To investigate such a major measure of information we will utilize assessment examination or feeling mining utilizing AI method with the goal that we can help being developed of plans of action. Consequently, for a travel industry organization to develop, it is basic that its specialties figures to enhance its promoting efforts and execution of its corporate site so as to improve the criticism from its clients[2].

## II. LITERATURE OVERVIEW

Duan [3] implemented a comprehensive view of online user generated content beyond the quantitative summary. The author has used the sentiment analysis technique to decompose user reviews into five dimensions to measure hotel service quality. Econometric models have been used to examine the effect in shaping users overall evaluation and content generating behavior. Hemalatha [4] expressed and implemented the sentiment classification in online reviews using frn algorithm. The author has emerged blogs or social networks as a method for mining opinions.

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## Justification of post-ratcheting hardening behavior of annealed Copper through hardening coefficient and hardening factor

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### ABSTRACT

The present research work has been carried out to investigate the ratcheting behavior at different stress ratios under constant maximum stress and changes in post-ratcheting tensile properties of commercially pure (99.97%) polycrystalline Copper. All the ratcheting tests were done at room temperature upto 25% true ratcheting strain accumulation. After ratcheting deformation tensile tests were performed on ratcheted specimens at strain rate of  $10^{-3} \text{ s}^{-1}$  up to complete fracture. Post-ratcheting hardening behaviors were analyzed by the variation of plastic strain amplitude and hardening factors with respect to number of cycles. It is observed that the number of cycles over which a constant amount of ratcheting deformation occurs exponentially increases with increase of stress ratio. It is also observed that post ratcheting tensile properties of annealed copper linearly increases with increase of stress ratio. Such observations of post-ratcheting hardening behavior have been successfully justified by the variation of hardening coefficient and hardening factor.

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Selection and Peer-review under responsibility of the scientific committee of the Innovative Advancement in Engineering & Technology.

## 1. Introduction

Commercial pure Copper and Copper alloys are the candidate materials for complex structural applications subjected to extreme heat flux under load due to their good high thermal conductivity coupled with good mechanical strength and toughness over a wide range of temperatures. As the temperature of the components used in service changes due to heating and cooling, both tensile and compressive thermal stresses are developed by contraction due to cooling and expansion due to heating effects respectively. This phenomenon is called thermal stress fatigue and it may occur without application of mechanical load. When change of component temperature and amount of expansion and contraction (strain) vary simultaneously, then the components are subjected to anisothermal or asymmetric stress fatigue. Such anisothermal

stress fatigue is more damaging than isothermal stress fatigue. In this context, as a reference the quantification of damage due to asymmetric stress cycling at room temperature of Copper/Copper alloys is important.

Over the last three-to-four decades a number of studies either by experimental investigation [1–12] or constitutive modeling [13–19] have been carried out to understand the ratcheting behavior of different materials. During the ratcheting or asymmetric cyclic loading the cycle-by-cycle inelastic strain accumulation occurs in the specimen in the direction of applied mean stress. So, damage occurring in the material due to asymmetric cyclic loading is caused by the combined effect of cyclic deformation and inelastic strain accumulation. Although volumes of results on various aspects of ratcheting behavior of different materials are available in the open literature domain, the quantification of material damage due to certain amount of ratcheting deformation is less available because of the complexity of the ratcheting-fatigue phenomenon. It is, therefore, very much intriguing how to assess the extent of damage occurring due to ratcheting deformation in the elasto-plastic domain.

It has been already studied by several researchers [8–12,20,21] that mean stress and stress amplitude highly affect the ratcheting life and effect of stress amplitude on ratcheting life is more

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## Green Synthesis of Bio-polymer Composites of Iron for Pharmaceutical Applications

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### ABSTRACT

Due to the capacity to moderate metals to their nanometer size, nanobiotechnology is gaining enormous popularity in this period, which effectively changes its chemical, physical and optical properties. Recent progress in nanoscience and technology has also managed to the growth of new nanomaterials (NMs), eventually increasing toxic and potential health effects. There has been growing attention in evolving eco-friendly methods for metal nanoparticles (NPs) synthesis. The main purpose of the study is to reduce the harmful influences of synthetic processes, associated substances alongside other derivatives. The use of diverse biomaterials (BMs) for NP synthesis is examined as a promising method in green nanotechnology. However, most of the techniques currently available are costly; utilizing the natural properties includes plants, bacteria, fungi and algae to manufacture low-cost, non-toxic and energy-efficient metallic NPs that are environmentally friendly. Besides, biologically synthesized NPs and their characterization are essential for their future utility in numerous deliveries of drugs and pharmaceutical utilizations. Here, the current analysis summarizes the synthesis and future use of iron nanoparticles (Fe NPs) by green nanobiotechnology in the arena of biomedical applications.

**Keywords:** Biopolymers; Green synthesis; Characterization; Pharmaceutical applications

### INTRODUCTION

Nanotechnology (NT) is the utmost important and fast-budding fields of study using biosynthetic and non-polluting tools for nanoparticles (NPs) production. It mainly deals with handling and particle design techniques ranging from 1 to 100 nm. Generally NPs are tiny size of < 100 nm and display a huge ratio to the surface volume [1]. Owing to the mesmerizing properties including mechanical, sensing, physical, magnetic electronics, optical, NPs have fascinated particular consideration of the research community and differ considerably in many respects with that of solid counterparts [2]. NPs have been employed extensively in various fields comprising energy, food, engineering, cosmetics, agriculture and medicine [3,4]. The aforesaid extensive NP uses are owing to their special natural, biochemical alongside physical characteristics. Amongst numerous NPs, the Fe NPs are the marvelous research accomplishment in NT and also possess broad applications in various sciences. Nowadays, iron NPs have been enormously utilized in delivering the drugs, cancer treatment, gene therapy, enhancement of MRI, cell sorting, food usages, tissue engineering

and anti-microbial and oxidant [5-7]. Additionally, iron NPs are employed extensively for exclusion of heavy metals and treating waste water (H<sub>2</sub>O) of inert or organic impurities owing to the greater inherent reactivity of their exterior areas. Hitherto, iron particles have verified to be superior benefit for contaminant removal includes nitrate, insecticide, azo dye and so on [8]. Presently, these particles are produced with a help of diverse chemical and physical methods. Further, these physico-chemical strategies face frequent difficulties; utilize lavish metals, organic solvents, reducing agents, need high energy, expensive equipment, pressure and temperature. These approaches also produce harmful effects on humans, specifically in the clinical sector; these particles cannot be used in medicine [9,10]. Therefore, it's an urge to establish a viable, clean and healthier strategy to overcoming these limitations as biochemical production produce small volumes, involves intricate refining procedures and huge amount of energy intake. At present, significant advances in the biofabrication of NPs have been achieved using microorganisms and various other bio resources includes such as algae, floras and yeasts. NPs process is environmentally friendly, intensive, non-toxic alongside no requirement of costly

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## Research Article

# GLOBAL IMPLICATIONS AND PROSPECTS OF DIGITAL COMMERCE SERVICE QUALITY CONVENIENCE FOR ECONOMY AND ENVIRONMENT

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### ABSTRACT

With the speedy development of the internet, the electronic commerce (e-commerce) activities occur more and more frequently in our lives. Digital commerce or e-commerce has become a powerful force driving economic change around the world. Digital commerce deploys new technologies in ways that have effects on the entire economic sectors. So in this e-commerce environment plays an unusual role for economy and environment. However, as more consumers leverage traditional brick-and-mortar alternatives to their online buying behaviors, some of the environmental savings quickly erode which also affect the economy. Economic effects: are changes in supply chain, On-time delivery, Company decentralization, Transportation of freight, Change in competition, change in price structure, and change in consumption patterns. Environmental effects: Dematerialization (ex. digitization of books), Changes in material flows, Changes in energy use, Changes in transportation infrastructure (airports just for freight, Changes in land use location

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### INTRODUCTION

Thanks to the development of electronic commerce, the most basic of economic transactions the buying and selling of goods continues to undergo changes that will have a profound impact on the way companies manage their supply chains. Simply put, e-commerce has altered the practice, timing, and technology of business-to-business (B2B) and business-to-consumer (B2C) commerce. It has affected pricing, product availability, transportation patterns, and consumer behavior in developed economies worldwide.

Electronic Commerce is sharing business information, maintaining business relationships, and conducting business transactions by means of telecommunications networks. Traditional Electronic Commerce, conducted with the use of information technologies centering on electronic data interchange (EDI) over proprietary value-added networks, is rapidly moving to the Internet. The Internet's World Wide Web has become the prime driver of contemporary Here we discuss implications and Prospects of E-Commerce Convenience for economy and environment.

### Economy

E-Commerce over the Internet, as a new way of conducting business, has radically altered the global economy. Though only for three years, it affects large sectors of economies such as communications, finance and retail trade, education, health and government, we illustrate these changes by from the following viewpoints:

- Economic Drivers
- Economic Efficiency
- Business Models, Sectorial Organisation and Market Structure

### Economic Drivers of E-Commerce

E-Commerce emerges to be the fastest growing business activity in many economies basically because it possesses the following economic drivers:

**E-Commerce Transforms the Market Place** – It replaces the traditional intermediary functions and brings business community far closer to consumers than before. In addition, new products, either tangible or intangible, emerge in this new market space. It also brings great changes in work places in terms of knowledge diffusion and human interactivity. The

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# Covid-19 Effects on HIV Infected Patients ART

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Medical College and Hospital, Meerut.(UP),India;  
\*Shobhit Deemed University, Meerut,(UP),India;

## Abstract:

The current outbreak of novel coronavirus has prompted an upsurge of fear, stigma and virus-shaming that is all too familiar to people living with HIV. For health care providers and other front-line professionals serving people with HIV, this means not only the added burden of managing the outbreak among their patients and clients, but also the opportunity to alleviate panic and keep those they serve well-informed. This article consolidates the most recent provider-focused information available regarding the intersection between HIV and SARS-CoV-2, the novel coronavirus behind the COVID-19 pandemic.

The emergence of the novel coronavirus disease known as COVID-19 creates another health burden for people living with HIV (PLWH) who face multiple morbidities and may be at heightened risk for severe physical health illness from COVID-19. Our abilities to address these morbidities in PLWH must be considered alongside the socially-produced burdens that both place this population at risk for COVID-19 and heighten the likelihood of adverse outcomes. These burdens can affect the physical, emotional, and social well-being of PLWH and interfere with the delivery of effective healthcare and access to HIV treatment. We posit that a syndemic framework can be used to conceptualize the potential impact of COVID-19 among PLWH to inform the development of health programming services.

Keywords: - HIV, COVID-19, SARS-CoV-2, Health care, HIV Antibody.

## Introduction:-

Since December 2019, an outbreak of coronavirus disease, officially named by the world health organization as COVID-19, appeared in Wuhan, Hubei Province, China. Patients with severe viral pneumonia and respiratory illness. Lymphopenia has been considered as a poor prognostic factor for severe acute respiratory syndrome (SARS) (Leung et al., 2004) as well as COVID-19 (Qin et al., 2020). In March 2020, the Centers for Disease Control and Prevention (CDC) highlighted people living with HIV (PLWH) as a population that may be at heightened risk for severe physical health illness from the new coronavirus disease known as COVID-19 compared to the general population [1]. This risk in PLWH is predicated on potential interactions between COVID-19, HIV, and other risk factors for COVID-19 complications such as diabetes and hypertension that are common in PLWH, potential interference with care and treatments, and high rates of socially-produced burdens in the form of violence, stigma, discrimination,



Mayank Kataria  
2019/2020

To be filled by the External Supervisor or Co-supervisor (if applicable)

I agree to supervise the student Mr/Ms. Mayank Kataria in his/her research project on Optical Research.  
Research Scholars have completed his work from the date of their registration. My nomination is for the  
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9. Date of registration 11/11/19  
10. Experience in years  
    (a) Research 22 yrs  
    (b) Teaching 22 yrs  
    (c) No. of students advised, guided or supervised 22

11. Area of specialization Agricultural Biotechnology, Food Processing  
12. Number of publications/papers 22  
13. Any other information

Dated 24.10.2019



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# Service Quality Dimensions of E-retailing of Islamic Banks and Its Impact on Customer Satisfaction: An Empirical Investigation of Kingdom of Saudi Arabia

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## Abstract

The study aims to explore key dimensions of service quality of E-Retailing of Islamic banks in the Kingdom of Saudi Arabia. The convenience sample size consists of 373 respondents who regularly use online Islamic banking facilities in Saudi Arabia was used. For measuring the consumers' perspective, a four-factor E-SERVQUAL scale; namely efficiency, system availability, fulfillment, and privacy was used. Exploratory Factor Analysis and Confirmatory Factor Analysis are used to test the model fitness. Structural equation modelling is utilized to determine the impact of E-service quality dimensions on customers' satisfaction. The results of the study reveal that 1) reliability as a dimension of E-retailing of Islamic banks made a significant impact on customers' overall satisfaction; 2) there is a positive significant relationship between responsiveness and customers' overall satisfaction. One unit increased in responsive leads to 0.763 unit increases in the overall satisfaction of the customer; and 3) ease of use is the most important dimensions of service quality of E-retailing of Islamic banks. One unit increases in Security/ Privacy leads to 0.473 unit increases in overall satisfaction. There is a positive impact of good E-service on customers' satisfaction, but it does not override unsatisfactory performance in other areas.

**Keywords:** Islamic Banks, E-Retailing, Service Quality, Satisfaction, Saudi Arabia

**JEL Classification Code:** G20, C30, L81.

## 1. Introduction

Islamic banking industry has gained importance recently and it is growing not only in the countries following the Shariah (Islamic Laws) rules but also in the West like the UK, USA, and France. Currently, Islamic banks are playing vital

roles in enhancing economic growth and economic development (Tabash & Dhankar 2014; Tabash, 2018). Conventional banking is already established for decades and it is very difficult in the countries not following Shariah rules to follow Islamic banking concept thus they have to face tough competition. So as to sustain a strong position in the market, Islamic banks have to improve their service quality and have to satisfy their customers by dealing with the issues faced by them. So as to attract customers and retain loyalty, Islamic banking has started offering new products according to the needs of the customers.

With the growing importance of Islamic banking globally, customer satisfaction has started becoming an important aspect and area of research. Holliday (1996), Richens (1983), and File and Prince (1992) explained that if the customers are satisfied with the services of the bank, then they will come to deal with the same bank and vice-versa. Satisfied customers are also the source of influence for others to deal with the bank. Haron, Ahmad, and Planisek

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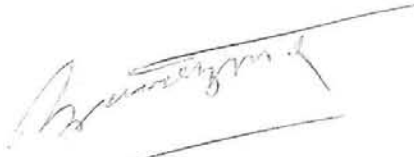
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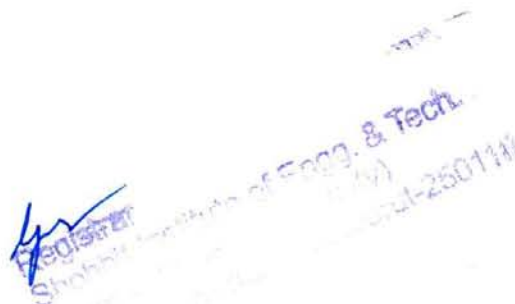
### To Whomsoever It May Concern

This is to appreciate to Mr. Aniket Kumar from Shobhit University for effectively carrying out consultancy collaborative project titled Education Administration Programs at Studenting Era, Noida along with our team for a period of 1 year (2019-20).

He has performed his duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish him all success in his future endeavours.

  
Director



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Reference No. PAR/10/19/67

Date: 8 July 2019

## To Whom it Concern

This is to certify that Mr. Rajesh Pandey, Shobhit University, Meerut is working on collaborative activity related to the troubleshooting of the softwares with our technical team. This collaboration is effective from August, 2019 to September, 2020 and will be helpful to enhance the technical skills among the staff and troubleshooting of the softwares too.

Regards



Director



  
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**GENETIC STUDY ON MORPHO-PHYSIOLOGICAL TRAITS AND IDENTIFICATION OF HETEROTIC LOCI FOR TRAIT COMPLENEMENT IN MAIZE (*Zea mays* L.)**

A SYNOPSIS

Submitted for the Registration for the Degree

Of

**Doctor of Philosophy**

In

**BIOTECHNOLOGY**

By

**Rihan Ansari**

(Regn. No.: SU/Ph.D./BT/03/2020)

Under the Supervision of

*Supervisor*

**Dr. Sandeep Kumar**

*Professor*

*Department of Biotechnology*

*SLET, Shobhit University, Meerut*

*Co-Supervisor*

**Dr. Rajbir Yadav**

*Principle Scientist*

*Division of Genetics*

*Indian Agricultural*

*Research Institute, New Delhi*

*Approved  
Comm  
VK*



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Date: 21<sup>st</sup> August 2019

Invitation Regarding Training on Python Programming

Dear Sir,

I Hope you are doing well, we are requesting you to conduct one training program for our employees on Python Programming especially by the faculty members of CS IT Department.

It will be very helpful for us, looking forward for your positive response. Kindly acknowledge with a tentative schedule

Thank You

To,

Head of Department,

Shobhit Institute of Engineering & Technology,

Meerut.

Regards

Sr. Manager - Amay Infosoft Pvt. Ltd.



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Ref : SU/RO/ADS/5(Microbiology)/2019

Dated: 27<sup>th</sup> March, 2019

To,

**Ms. Navdeep Kaur**

D/o Sh. Gurjant Singh

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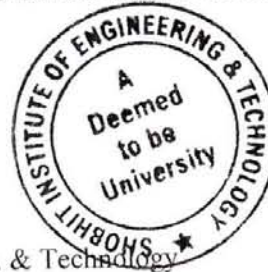
**URDC Result – APPROVAL OF SYNOPSIS**

Dear Ms. Navdeep Kaur ,

- Further to our letter No. SU/RO/ADS/5(SBES)/2018 dated 26<sup>th</sup> October, 2018 and e.mail dated 18<sup>th</sup> March, 2019.
- URDC, in its meeting held on 23<sup>rd</sup> March, 2019 has approved the following :-

Synopsis	:	Approved
Registration	:	Confirmed
Enrolment No.	:	2017040009
Registration No.	:	SU/Ph.D./P.T./MB/17/02
Date of Registration	:	27 <sup>th</sup> August, 2017
Subject	:	Microbiology
Approved Research Topic	:	Development of Microbiome Based Differential Diagnosis for (Allergy Affected Children
Supervisor (s) : Prime Supervisor	:	<ul style="list-style-type: none"> <li>• <b>Prof.(Dr.) Amar P. Garg</b> Vice Chancellor, Shobhit Inst. &amp; Tech. (A Deemed to-be University) Meerut-(UP)</li> </ul>
Co-Supervisor(s)	:	<ul style="list-style-type: none"> <li>• <b>Dr. Parveen Bansal</b> Joint Director, University Centre of Excellence in Research, Baba Farid University of Health Sciences, Faridkot (Punjab)</li> <li>• <b>Dr. Malika Arora</b> Research Scientist-I, MRU Guru Gobind Singh Medical College, Faridkot (Punjab)</li> </ul>
Research Centre	:	School of Biological Engg. & Life Sciences

3. You are advised to carry out your research work and forward six monthly progress report in accordance with the Ph.D. Ordinance-2016 for our further necessary action. Proforma of progress report is enclosed herewith.



Yours Sincerely,

*Vijay K. Singh*  
Vijay K. Singh  
Registrar

Copy To:

1. **Prof.(Dr.) Amar P. Garg (Supervisor)**  
Vice Chancellor, Shobhit Institute of Engg. & Technology  
(A Deemed to-be University), Meerut
2. **Dr. Proveen Bansal (Co-Supervisor)**  
Joint Director, University Centre of Excellence in research  
Baba Farid University of Health Sciences, Faridkot (Punjab)
3. **Dr. Malika Arora**, Research Scientist-I, MRU Guru Gobind Singh Medical College, Faridkot (Punjab)
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### WSN-AI based Cloud Computing Architectures for Energy Efficient Climate Smart Agriculture with Big Data analysis

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#### ABSTRACT

These days, the conventional database worldview does not have enough stockpiling for the information created by Wireless Sensor Network (WSN) framework for climate smart agriculture continuously, prompts the need of cloud storage. These information's are examined by an Artificial Intelligent (AI) module with the assistance of Big Data mining methods. Cloud based big data investigation and the WSN-AI innovation plays out an essential job in the practicality investigation of savvy farming. Sharp or exactness agricultural frameworks are assessed to assume a vital job in improving cultivation exercises. In this paper, WSN framework is utilized to detect the horticulture variable parameters and it is put away into the Cloud database. Big data examination utilizing Cloud is used to look at the information viz. compost prerequisites, break down the yields, soil PH, sickness, temperature and other important parameters. At that point the expectation is performed dependent on data mining strategy by the AI module which will additionally pick the proper advance to drive the actuator for re-establishing the inadequacy happened for the most extreme harvest yield. Our definitive point is to build up a energy efficient smart agriculture system which will expand the yield generation and control the rural expense of the items utilizing this anticipated data.

**Key words:** Wireless Sensor Networks (WSNs), Artificial Intelligence (AI), Cloud Computing, Big Data.

#### 1. INTRODUCTION

Shrewd farming is an administration style that incorporates smart observing, arranging and control of horticultural procedures. As shrewd appliance and sensing elements crop up on homesteads and ranch figures evolve in quantity and level, mulching approaches will evolve to be gradually data operated and data empowered. Real-time helping reconfiguration highlights are required to do spry activities, particularly in instances of abrupt change in atmosphere conditions or different conditions (for example climate or illness alert). The technology which is intended to utilize is wireless sensor network. A WSN is a system of dispersed self-governing gadgets that can detect or screen

physical or natural conditions agreeably [1]. WSNs are utilized in various applications, for example, ecological checking, environment observing, forecast and recognition of regular catastrophes, therapeutic checking and auxiliary wellbeing checking [2]. WSNs comprise of an expansive number of little, Cluster head Sink hub Wireless connection Sensor hub Phenomenon to be checked Fig. 1. Design of used WSN are cheap, dispensable and self-ruling sensor hubs that are normally expanded in an ad hoc manner tremendous topographical regions for remote activities. Sensor hubs are seriously compelled as far as capacity assets, computational abilities, communication bandwidth and power supply.

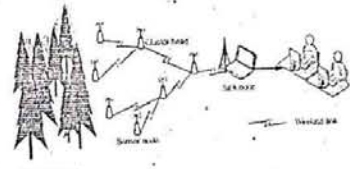


Figure 1: Architecture of a typical WSN

Generally, sensor hubs are collected in bunches, and each group has a hub that goes about as the group head. All hubs forward their sensor data to the group head, which in this way courses it to a specific hub called sink hub (or base station) through a multi-hop remote correspondence as showed up in Figure 1. In any case, frequently the sensor organize is fairly little and comprises of a solitary bunch with a solitary base station [3] - [5]. Different situations, for example, various base stations or versatile hubs are additionally conceivable. Article [6] presents a characterization of WSNs dependent on correspondence capacities, information conveyance models, and system elements.

Big Data advances are playing a basic, corresponding job in this improvement: machines are furnished with all sort of sensors that measure data in their condition that is utilized for the machines' conduct. This changes from nearly fundamental criticism instruments (for example an indoor regulator managing temperature) to profound learning calculations (for example to execute the correct harvest security system). Big data requires a lot of methods and innovations with new types of joining to uncover bits

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Mr. Priyank Bharti

Assistant Professor

Shobhit University, Meerut

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Thank you  
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With Regards

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Founder and Chairman  
Natural Science Trust

Chairman  
Natural Science Trust  
Meerut (U.P.) India



*Parul*  
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(Dept. of Engg. & Tech.)  
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# He-Ne Laser Effect on Etching Parameters of CR-39 Solid State Nuclear Track Detector

R.K. Jain<sup>1</sup>, Ashok Kumar<sup>2</sup>, Aniket Kumar<sup>1</sup> and R.N. Chakraborty<sup>3</sup>

## Abstract

*This paper deals with the effect of He-Ne laser on etching parameters of CR-39 Solid State Nuclear Track Detector. Fifteen CR-39 detectors were divided into three sets of equal numbers of CR-39 detectors. The first set containing five CR-39 detectors was first irradiated to alpha particles from 241Am source of 75kBq intensity and then exposed in air with He-Ne laser of 5mW power ( $\lambda=632.8$  nm) for 15 minutes (post-exposed). The second set containing five CR-39 detectors was first exposed to He-Ne laser for 15 minutes and then irradiated to alpha particles under the same conditions (pre-exposed). The third set containing five CR-39 detectors was irradiated to alpha particles only (un-exposed) under the same condition. Track diameters ( $D$ ), Track Density ( $\bar{n}$ ), Bulk Etching rate ( $V_B$ ), Track Etching rate ( $V_T$ ), Critical Angle ( $\theta_C$ ), Etching Efficiency ( $s\eta$ ), Etching ratio rate ( $V$ ) and Sensitivity ( $S$ ) were determined using 6.25 N NaOH at different temperatures i.e. 60, 65, 70, 75 and 80°C. These results show that  $V_B$  and  $V_T$  vary in all three cases and also all etching parameters vary accordingly.*

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**Keywords:** He-Ne laser, CR-39 detector, Etching rates ( $V_B$  &  $V_T$ ), Activation energy ( $E_B$  &  $E_T$ )

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## INTRODUCTION

CR-39 Solid State Nuclear Track Detectors (SSNTDs) are widely used for the detection of light and heavy nuclear particles. Etching parameters of CR-39 detectors can be changed by using electromagnetic radiation. It is known from different research papers that bulk etch rate and track etch rate are affected by exposing nuclear track detectors to laser, X-rays,  $\gamma$ -rays

and UV radiation. The interaction of these electromagnetic radiations with the detector material results in internal structure changes. These changes depend on several factors such as detector structure, exposure condition, radiation type, energy, irradiation condition, and etching process etc. Two competing processes, (bond secession and crosslink), occur as a result of irradiation with Low Linear Energy Transfer (LLTE). Bond

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## Effects of UV irradiation on Fission-fragment track parameters in Makrofol-E detector

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M. K. Singh‡-|| and V. Singh§,¶

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This study gives information about the effects of UV (here, the wavelength is 160 nm) exposure on the bulk etch rate ( $V_B$ ), track etch rate ( $V_T$ ), the detector sensitivity ( $S$ ), critical angle ( $\theta_c$ ) and etching efficiency ( $\eta$ ) of Makrofol-E Solid State Nuclear Track Detector. The effect of UV on the activation energy of Makrofol-E was also studied. Nine pieces of Makrofol-E Solid State Nuclear Track Detector were separated into three equal sets as set A, set B and set C. Set A, named as reference set (Fission fragment FF), was irradiated to  $^{252}\text{Cf}$  source. Set B, called as post-exposed (FF + UV), was first irradiated to  $^{252}\text{Cf}$  and then exposed to UV. The process was reversed for set C named as pre-exposed (UV + FF) at the same conditions. From the results, it is concluded that radiation produces small but significant effect on activation energy  $E_B$  of bulk etch rate for pre-exposed and post-exposed samples. Also, the activation energies  $E_T$  of track etch rate for post-exposed and Fission fragment samples are within experimental uncertainty. The energy carried by UV radiation may be responsible for cross networking processes occurring during the exposure which results small change in activation energies for both  $E_B$  and  $E_T$ . The  $E_T$  can be increased by hardening detector material of the pre-exposed detector.

**Keywords:** Bulk etch rate; track etch rate; sensitivity; critical angle; efficiency; activation energy; UV irradiation.

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# Effects of He–Ne laser on etching parameters of lexan (polycarbonate) plastic track detector irradiated with fission fragments

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ARTICLE INFO

Keywords:

Lexan plastic track detector  
He–Ne laser  
Etching parameters  
Fission fragments  
Activation energy

ABSTRACT

This research work investigates the effects of He–Ne laser (115 and 287 J/cm<sup>2</sup> fluence) radiation on the etching parameters like bulk etch rate  $V_B$ , track etch rate  $V_T$ , Sensitivity  $S$ , critical angle  $\theta_c$  and efficiency  $\eta$  of Lexan plastic track detector, irradiated with fission fragments from <sup>252</sup>Cf source. The changes in etching parameters due to He–Ne laser in the fluence range of 0, 115, and 287 J/cm<sup>2</sup> at different temperatures (328–348 K) have been discussed in detail. Bulk and track etch rates are observed to vary with He–Ne laser fluence both in case of pre-exposed and post-exposed detectors as compared to un-exposed Lexan plastic detector. Both bulk and track etch rates follow Arrhenius equation. Based on these results, important inferences regarding activation energies associated with bulk and track etch rates have been made. Sensitivity, critical angles and efficiencies of detector material also reveal significant facts about the changes in properties due to He–Ne laser on the Lexan plastic detector. A comparative study is performed on the effects of coherent/in-coherent electromagnetic radiation on nuclear track detectors. The activation energies of bulk and track etching for commonly used nuclear track detectors is also reported.

1. Introduction

Lexan (Bisphenol-A) and other polycarbonate plastic track detectors are extensively used in various experiments viz. in nearby accelerator, nuclear science, space science, radiation detection, identification of nuclear particles, particle energy estimation, search for super heavy elements and nucleopore filter (Dawson and Thompson, 1956; Fink and Benton 1970; Blomard et al., 1970; de Sullivan et al., 1971; Sharma 1975; Edmunds and Gammay 1977; Pilon et al., 1979; van der Linde et al., 2001; Kati 2007; Nagpal 2009; Kumar et al., 2010; Anand, 2013; Chavan et al., 2013). Lexan (a bisphenol-A polycarbonate) is well known polymer used as Solid State Nuclear Track Detectors (SSNTDs). Lexan is a transparent material which has high compact strength. In the present research work, it is important to study how Low Linear Energy Transfer (LLET) radiation can change the track registration properties of Lexan detector by the He–Ne laser radiation exposure process. Lexan detector is widely used for the detection of heavy nuclear particles (Frank and Benton 1970; Blomard et al., 1970; Edmunds and Gammay 1977; Edmunds

1980; Dwivedi 1997; Kumar et al., 2010; Chavan et al., 2017). Etching parameters of Lexan detector can be changed by using electromagnetic radiation (Frank and Benton 1970; Blomard et al., 1970; Jaleh et al., 2010; Pilon et al., 1979; Nagpal 2009; Chavan et al., 2013; Anand 2013; Gangadharan et al., 2013). It is well known from several research papers that bulk etch rate and track etch rate are affected by exposing plastic nuclear track detectors to laser, X-rays,  $\gamma$ -rays and UV-radiations (Abudama et al., 1991; Siddiqui et al., 2001; K. Prasad et al., 2003; Jaleh et al., 2010; Shajma et al., 2010; Anand et al., 2013; Saffari et al., 2014; Gangadharan et al., 2013; Dwivedi, 2014; Kumar et al., 2013; Kati et al., 2014; Kaur et al., 2015; Ibrahim, Shamsuddin 2016; Alhazw et al., 2017; Jaleh et al., 2019, b). The interaction of these electromagnetic radiations with the detector material results in internal structural changes. These changes depend on several factors such as structure of the detector, exposure, radiation type, energy, irradiation conditions and etching process etc. (D. Sullivan et al., 1979; Anand, 2010; Yamashita et al., 2001; Saha et al., 2001; Nilsson et al., 2002; Anand et al., 2006; Kati, 2009; Anand et al., 2009; Anand, 2010; Chavan et al., 2013; Chavan et al.,

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## Analysis Against DDOS Flooding Attacks in Healthcare System using Artificial Neural Network

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### ABSTRACT

The research on cyber security has gained more attention and interest outside the availability of computer security experts. Cyber security is not a single issue, but a series of highly different issues involving multiple threats. The data accommodation in health care system is growing continuously, which demanded a highly efficient and intelligent system to deal with the health records. The increase in the data increases the probability of affecting data by the cyber attacker. Therefore, it becomes essential to deal with cyber-attacks. This research focused on the utilization of cyber security for healthcare organization using machine learning approach. Our aim is to detect Distributed Denial of Service (DDoS) attack, which is one of the most commonly present cyber-attacks. This type of attack is designed to prevent genuine user from the required network resources. By using the concept of Artificial Neural Network (ANN), the system is trained based on the database related to the clinical record, financial record, individual record etc. During the data communication process, cross-validation is performed using ANN approach, which matched the data with the database and at last check the performance parameters. The experiment results indicate that there is an increase in the True Positive Rate (TPR) and False Positive Rate (FPR) of 0.27 % and 8.79 % respectively has been observed.

**Key words:** Cyber security, healthcare system, Distributed Denial of Service, Artificial Neural Network.

### 1. INTRODUCTION

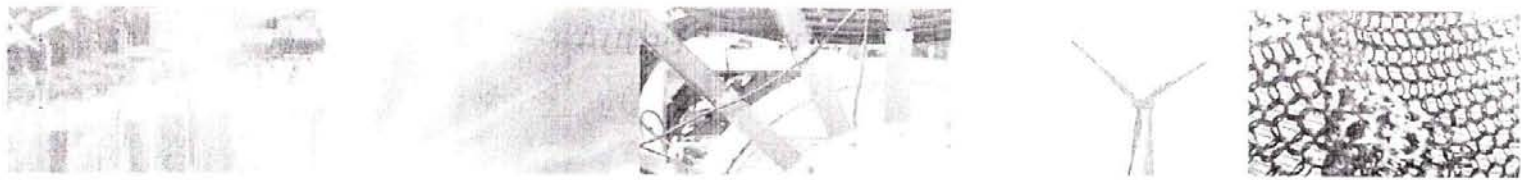
Cybercrime/ computer crimes are illegal actions, which involve computers and their networks. The attacker affects the performance of the computer. Such crimes can pose a threat to financial health and hence to the security of the nation [1]. There is number of methods through which the cybercrime takes place, the most common causes are hacking, steal personal data, pornography and copyright violation. In

case of intercepting confidential information, confidential issues arise [2]. One of the aspects that must be considered when considering certain tools for enhancing cyber security is the connectivity of users with the threats nature with its necessary countermeasures. Also, people adjust their ways based on the risk factor, which can they can bear [3]. Thus, risk perception plays an essential role in improving cyber security. Government agencies are also susceptible to cyber-attacks. For the last couple of years, it was found that approximately 70 % of institutions claim their security against the successful cyber-attack [4]. People around the world use the internet and other distinct system models to communicate, transfer and store data. Most data and information are private and very sensitive; therefore, protecting this data is compulsory. However, in the present time hacking has become very common [5-7]. In computer networks, hacking is a technical means of getting hold of victim's computer and connection system with malicious purposes, with the aim of collecting information to extort and destroy people's lives. Therefore, our main motive is to protect healthcare systems from cybercrime [8]. Due to the inherent weaknesses in its security posture, healthcare faces greater cyber risks than other sectors. It is one of the most targeted industries in the world; 81% of the 223 healthcare organizations have surveyed, and in 2015 alone, more than 110 million patient's information in the United States was leaked [9]. The common threats found in healthcare systems are listed in Table 1.

**Table 1:** Common and Emerging Cyber Threats in Healthcare

Cyber Threats in healthcare	Description
Data steal for financial purpose	Breaching patient's personal information related to their name, address and financial information for the purpose of money.
Data steal for impact	The theft might steal information related to the high profile patient such as celebrities, politicians that affects their profile.
Ransomware	The attacker, block the patient or completely delete from its database until the patient has paid the entire fee.
Data corruption	The attacker changes the testing values for a reputed person gain
Denial of Service Attack	Interrupt the performance of an organization by flooding a number of requests





# Onset of Soret driven instability in a Darcy–Maxwell nanofluid

Reema Singh<sup>1</sup> · Jaimala Bishnoi<sup>1</sup> · Vipin Kumar Tyagi<sup>2</sup>

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## Abstract

This paper presents an analytical and numerical study of the salt particle drift driven by thermal gradient and the nanoparticle drift due to Brownian motion in a Darcy porous layer saturated by a Maxwellian nanofluid under passive management of nanoparticle flux at the boundaries influenced by the Stefan’s flow condition. Filtration law of Khuzhayorov et al. (Int J Eng Sci 38:487–504, 2000), for the Darcy–Maxwell fluid, has been used. It is shown that the steady state convection, under both linear and non-linear stability theory do not depend upon the relaxation parameter of the Maxwell fluid. Soret effect is responsible for delaying the stationary convection. It, however, enhances it in comparison to the convection in monodiffusive flow. Oscillatory convection exists, ceases and shifts to the stationary convection. In Soret effected steady convection, among heat, salt and nanoparticles, the transport of nanoparticles is most active while among monodiffusive, double diffusive and Soret governed convection, the heat transfer is most active in Soret induced convection. Streamlines, isotherms and isohalines are shown for steady as well as unsteady convection. Results are compared with some of the existing results.

**Keywords** Darcy–Maxwell nanofluid · Linear and non-linear instability · Passive management of nanoparticle at the boundaries · Thermophoresis

**Mathematics Subject Classification** 76Dxx · 76Exx · 76Rxx · 76Sxx

## List of symbols

$c$	Nanofluid specific heat at constant pressure	$Le$	Thermo-solutal Lewis number
$C^*$	Solute concentration ( $\text{kg/m}^3$ )	$Ln$	Thermo-nanofluid Lewis number
$C$	Dimensionless concentration	$N_A$	Modified diffusivity ratio
$C_c^*$	Concentration at the upper wall	$N_B$	Modified particle-density increment
$C_h^*$	Concentration at the lower wall	$N_{CT}$	Soret parameter
$(\rho c)_m$	Effective heat capacity of the medium (J/K)	$p^*$	Pressure (Pa)
$(\rho c)_f$	Effective heat capacity of the fluid (J/K)	$p$	Dimensionless pressure
$(\rho c)_p$	Effective heat capacity of the material constituting nanoparticles (J/K)	$Ra$	Thermal Rayleigh–Darcy number
$d$	Dimensional layer depth (m)	$Rm$	Basic density Rayleigh–Darcy number
$D_B$	Brownian diffusion coefficient ( $\text{m}^2/\text{s}$ )	$Rn$	Concentration Rayleigh–Darcy number
$D_T$	Thermophoretic diffusion coefficient ( $\text{m}^2/\text{s}$ )	$Rs$	Solutal Rayleigh number
$D_S$	Diffusion coefficient ( $\text{m}^2/\text{s}$ )	$t^*$	Time (s)
$\mathbf{g}$	Gravitational acceleration vector ( $\text{m}/\text{s}^2$ )	$t$	Dimensionless time
$K$	Permeability of the porous medium (H/m)	$T^*$	Temperature (K)
		$T$	Dimensionless temperature
		$T_c^*$	Temperature at the upper wall

✉ Reema Singh, reemamalik28@gmail.com; Jaimala Bishnoi, jaimalaccsu1@gmail.com; Vipin Kumar Tyagi, prvipin22@gmail.com | <sup>1</sup>Department of Mathematics, Chaudhary Charan Singh University, Meerut, UP 250004, India. <sup>2</sup>SBAS, Shobhit Deemed University, Meerut, UP 250110, India.

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# Triple diffusive convection with Soret–Dufour effects in a Maxwell nanofluid saturated in a Darcy porous medium

Reema Singh<sup>1</sup> · Jaimala Bishnoi<sup>1</sup> · Vipin Kumar Tyagi<sup>2</sup>

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## Abstract

Soret–Dufour phenomenon in a Darcy–Maxwell Brownian nanofluid is performed using a macroscopic filtration model, suggested by Alishayev (Hydromechanics 3:166–174, 1974). For nanoparticle flux at the boundaries passive management, influenced by the management of concentration flux assumed in Stefan’s flow, is considered. Normal mode technique is used to analyse the stationary and oscillatory convections under the linear stability theory. The effects of different phenomenon are quantified by dimensionless parameters. It is found that the Soret parameter has dual behaviour for stationary convection and destabilizing behaviour for oscillatory convection, whereas the Dufour parameter has a stabilizing effect for both stationary and oscillatory convections. Nonlinear stability analysis provides the behaviour of flux of heat, salt and nanoparticles in the flow field through  $Nu$ ,  $Nu_c$  and  $Nu_\phi$ . Steady and unsteady convections are discussed. A graphical representation of streamlines, isotherms, isohalines and flow lines of nanoparticles concentrations is presented.

**Keywords** Darcy–Maxwell nanofluid · Soret–Dufour-driven convection · Linear and nonlinear instability · Passive management of nanoparticle at the boundaries

## List of symbols

$c$	Nanofluid specific heat at constant pressure	$N_A$	Modified diffusivity ratio
$C^*$	Solute concentration	$N_B$	Modified particle density increment
$C$	Dimensionless temperature	$N_{CT}$	Soret parameter
$C_c^*$	Concentration at the upper wall	$N_{TC}$	Dufour parameter
$C_h^*$	Concentration at the lower wall	$p^*$	Pressure
$(\rho c)_m$	Effective heat capacity of the medium	$p$	Dimensionless pressure
$(\rho c)_f$	Effective heat capacity of the fluid	$Ra$	Thermal Rayleigh–Darcy number
$(\rho c)_p$	Effective heat capacity of the material constituting nanoparticles	$Rm$	Basic density Rayleigh–Darcy number
$D_B$	Brownian diffusion coefficient	$Rn$	Concentration Rayleigh–Darcy number
$D_T$	Thermophoretic diffusion coefficient	$Rs$	Solutal Rayleigh number
$D_S$	Diffusion coefficient	$t^*$	Time
$d$	Dimensional layer depth	$t$	Dimensionless time
$g$	Gravitational acceleration vector	$T^*$	Temperature
$K$	Permeability of the porous medium	$T$	Dimensionless temperature
$Le$	Thermosolutal Lewis number	$T_c^*$	Temperature at the upper wall
$Ln$	Thermo-nanofluid Lewis number	$T_h^*$	Temperature at the lower wall
		$(x^*, y^*, z^*)$	Cartesian coordinates
		$(x, y, z)$	Dimensionless Cartesian coordinates

✉ Reema Singh, reemamalik28@gmail.com; Jaimala Bishnoi, jaimalacsu1@gmail.com; Vipin Kumar Tyagi, prvipin22@gmail.com |  
<sup>1</sup>Department of Mathematics, Chaudhary Charan Singh University, Meerut, UP 250004, India. <sup>2</sup>SBAS, Shobhit Deemed University, Meerut, UP 250110, India.

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Registrar  
 Shobhit Institute of Engg. & Tech  
 (Deemed to be University)  
 NH-68, Meerut, Uttar Pradesh-250110



SN Applied Sciences  
 A SPRINGER NATURE JOURNAL





# PHYSIO BIOMED EXPERTS

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## INDUSTRIAL SPONSORSHIP LAB AGREEMENT

This Sponsorship Lab Agreement is entered into this day of \_\_\_\_\_ 2021 between Shobhit Institute of Engineering and Technology - A Deemed to be University, located at Noida & Physio Biomed Experts, located at Delhi. The terms and conditions of this Agreement are as follows:

WHEREAS, the contract is entered into for the purpose of providing financial assistance to S.I.E.T. and Physio Biomed Experts for the research objectives of S.I.E.T. in the field of \_\_\_\_\_

NOW, THEREFORE, the Parties S.I.E.T. & Sponsor have agreed as follows:

- 1. STATEMENT OF WORK.** S.I.E.T. agrees to use the provided amount of financial assistance for the purpose of \_\_\_\_\_
- 2. TERM: PERIOD OF PERFORMANCE.** The financial assistance shall be provided for the period of \_\_\_\_\_ months commencing from \_\_\_\_\_ 2021 and shall terminate on \_\_\_\_\_ 2021. The financial assistance shall be provided in the form of \_\_\_\_\_ and shall commence upon the date of receipt of the financial assistance by S.I.E.T. The commencement of the Period of Performance shall be the date of receipt of the financial assistance by S.I.E.T.
- 3. REIMBURSEMENT OF COSTS.** S.I.E.T. shall reimburse Physio Biomed Experts for all direct and indirect costs incurred by Physio Biomed Experts in the performance of the research objectives. The total estimated instruments cost is INR 123,500/- which may be increased without written approval from Sponsor.
- 4. TERMINATION.** Either Party may terminate this Agreement by giving \_\_\_\_\_ days' prior written notice to the other Party.



Office -10/1, Dharam Colony, Nangloi, Delhi-110041

Office Contact No. : +91 9560378518

E-mail : info@physiobiomedexperts.com, bhunashwar.bm@gmail.com Website : www.physiobiomedexperts.com

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Shobhit Institute of Engineering & Technology  
Noida  
U.P.  
201302



# PHYSIO BIOMED EXPERTS

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5. NOTICES. Any notice given under this Agreement shall be in writing, and addressed to the Parties as shown below, unless otherwise agreed. Notices shall be delivered by certified or registered first class mail or airdail if not domestic, or by commercial courier service and shall be deemed to have been given on the date of receipt.

**Registrar**

Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
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Meerut -250110  
Email: registrar@shobhituniversity.ac.in

Place and Date



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Delhi-110041  
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Place and Date



*[Signature]*  
Registrar  
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NH-58, Modipuram, Meerut-250110

Office -10/1, Dharam Colony, Nangloi, Delhi-110041

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## Appreciation Award for Extension Activities

OMA Welfare Trust, Lucknow is pleased to confer the Appreciation Award to Shri. Institute of Engineering and Technology (Deemed to be University) Lucknow, Uttar Pradesh for regular and outstanding contribution to strengthen the implementation of Hon'ble Prime Minister's Swachh Bharat Abhiyan by organizing cleanliness Drive in the villages of its vicinity during the Session 2019-20. We wish the University all the best for its future endeavors.



*[Signature]*  
Registrar  
Shri. Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modinagar, Lucknow - 250110

*[Signature]*

*[Signature]*  
Dr. Neeraj Verma  
Chairman  
OMA WELFARE TRUST

संस्था का प्रमाण पत्र टीचर इन्टरशिप के सम्बन्ध में

प्रमाणित किया जाता है कि यशमेन्द्र कुमार पिता रामचन्द्र यादव जो

**Shobhit Intitue of Engineering & Technology, Merrat** का बी० एड का छात्र है। इस विद्यालय में इन्होंने टीचर इन्टरशिप के अन्तर्गत एक दिसम्बर से एक मार्च तक चार महीना शिक्षण कार्य किया।

इनका कार्य उत्तम एवं सराहनीय रहा है हम इनके उज्ज्वल भविष्य की कामना करते हैं।

*R.K. Verma*  
01.03.2020  
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ब० ब० पाठ्यमिक वि० विभाग  
अखण्ड-प्रबन्धन वि० (सुपरी)



*R.K. Verma*  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Merrat)  
No. 30112

# Image Watermarking Using APDCBT in Selected Pixel Blocks

Yogesh Awasthi<sup>1</sup>, Ashish Sharma<sup>2</sup> and Rajesh Pandey<sup>3</sup>

<sup>1,2</sup>College of Engineering and Computer Science, Lebanese French University, Erbil, Iraq

<sup>3</sup>School of Engineering and Technology, Shobhit Institute of Engineering & Technology, Meerut, India

E-mail: <sup>1</sup>dryogeshawasthi@lfu.edu.krd, <sup>2</sup>ashish.sharma@lfu.edu.krd, <sup>3</sup>rajesh.pandey@shobhituniversity.ac.in

**Abstract**—In the most recent decade, a change called all stage discrete cosine biorthogonal change (APDCBT) showed up in the field of computerized picture preparing. It is primarily used to settle the antagonism found in discrete cosine change (DCT), particularly in a low piece rate. In this paper, the APDCBT is utilized for watermark addition dependent on chose areas of a picture. The addition is relying upon the homogeneity of each piece of the picture. So as to decide the degree of homogeneity, there are two criteria: mean and standard deviation are connected for the force of the picture. Medium recurrence groups of APDCBT in picture pixels squares are utilized to hold the installed watermark. At that point, the change is inversed to acquire the resultant watermarked picture. The heartiness of APDCBT against watermark expulsion assaults is tried and the trial results demonstrated the predominance of the APDCBT over conventional DCT in the watermark implanting framework. All the more explicitly, when the LSB reset assault connected. For example, when the differentiation change assault connected, the normal of Normalized Cross Correlation (NCC) estimations of removed watermark pictures with the first watermark it was 0.992 for the proposed strategy. This a guaranteed outcome, on the off chance that it is contrasted and the NCC of the DCT strategy, which was 0.423. The proposed technique can be utilized for copyright protection purpose.

**Keywords:** APDCBT, DCT, Image Watermark, Selected Pixel Blocks.

## I. INTRODUCTION

Multimedia information, including image, has become one of the most communication contents. Due to the fast growth of Internet and boundless use of image processing and multimedia technologies. People can easily obtain the extensive multimedia files through the internet, create problems like prohibited copying, forge ownership claims, because of the ease of copying or altering digital documents quickly and without quality loss [1]. The watermarking system has been proposed for avoiding these problems [2] [3][16].

There are two groups of techniques in order to add watermark to images according to their domain. the first group is the spatial domain based watermarking methods, in which the watermarking data are embedded into bearer

picture by adjusting its pixel values, although the spatial domain techniques need less computation power and have less execution time, however, they do not have the ability to resist versus various attacks, the second group is transform domain based watermarking methods [3][4].

Transform domain is more robust than spatial domain methods. In techniques that use the transform domain, the carrier image converted into the frequency domain. before embedding a robust watermark into host-image, researchers commonly tune the coefficients of a transform such as DFT, DCT or DWT [5][6].

In [4] the discrete wavelet change (DWT) and all stage discrete cosine biorthogonal change (APDCBT) gave single value decomposition(SVD) to improve the watermark impalpability, The creators presumed that the proposed plan has minimal perceivable impact on the first picture, and it shows better vigor against run of the mill sign preparing assaults than different calculations.

In [7] algorithm was proposed to guarantee higher visual quality after watermark expansion to picture, Blocks or pixel areas chose for watermark are concealing, for example, locales in the picture. Where changes are least observable by human eyes, the result of proposed was effective in enduring even after four bits on the least noteworthy side of all pixels in the picture was reset.

In [8] a hybrid technique of DWT and DCT used to provides advantages of both techniques. The DWT has the disadvantage of fraction loss in watermark insertion which rises mean square error and the results decreasing PSNR. Where PSNR of the recovered secret image is higher compared to existing DWT and DCT techniques.

## II. APDCBT AND DCT

It is known, for researches of the Discrete Cosine Transformation (DCT) field, that the DCT has good properties related to energy concentration. Therefore, it has been employed in many applications, such as image compression, watermarking, object recognition, etc. [4][9] [17]. This DCT technique is used to convert images or signals from space-time into the spectral domain. This conversion has the power to show perfect energy compaction. The



Hand-Sanitizer to Local Administration, Media Coverage

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एडीएम सिटी  
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सेनिटाइजर

1000 सैनिटाइजर एडीएम सिटी के

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वितरण के लिए उपलब्ध कराए। मीडिया प्रभारी डा. अभिषेक



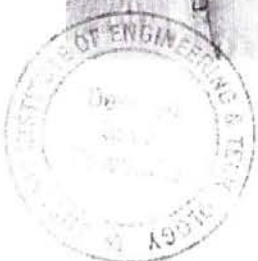
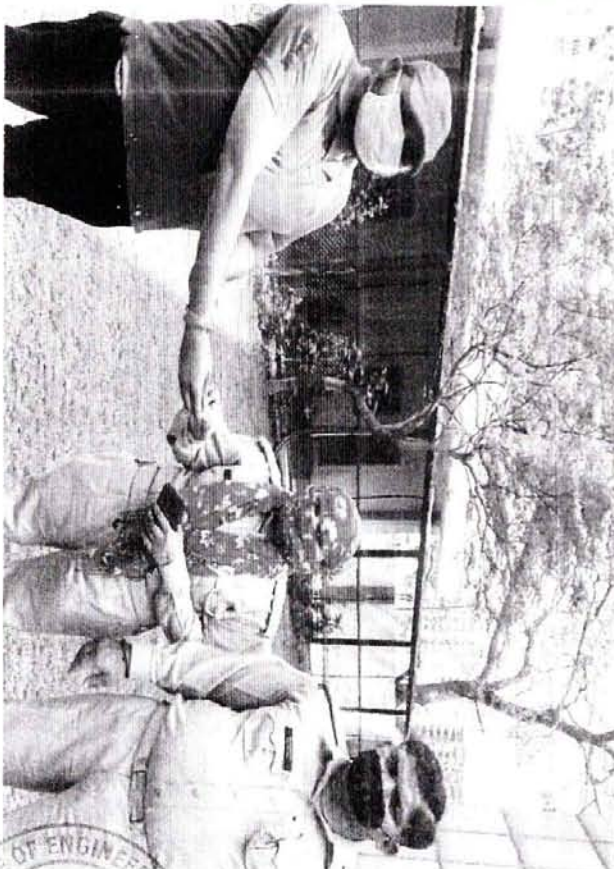
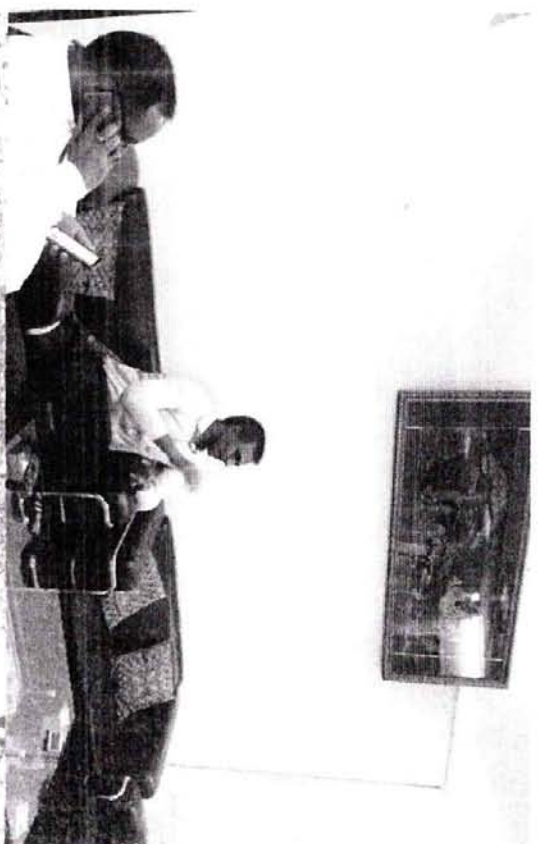
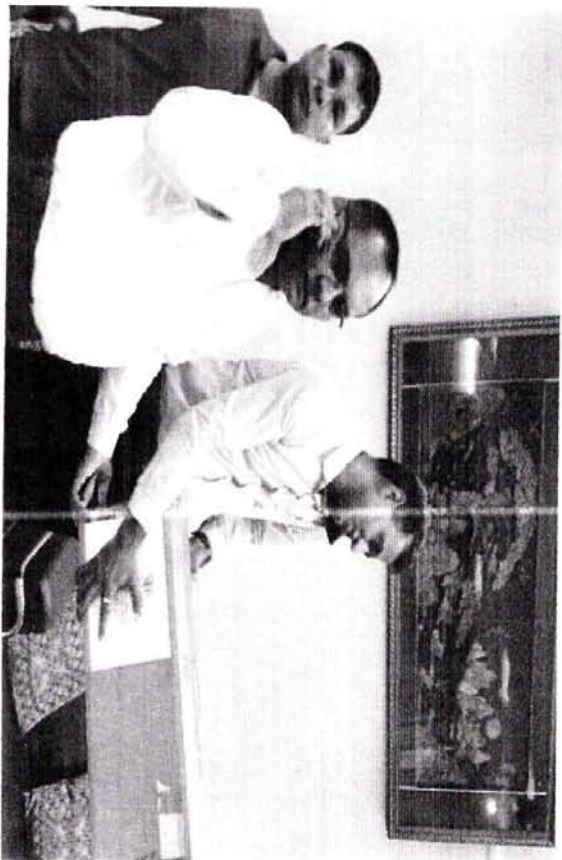
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# Preparation of Alcohol based herbal hand Sanitizer



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(Deemed to-Be Univ.)  
NH-58, Modipuram, Meerut-250110

# Handover of Hand-Sanitizer to Local Administration



*Anil Kumar*  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerkhet, Meerut-250118



To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

Date: 19-01-2019

This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology (Deemed to be University, Meerut) on 18-01-2019 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	NEHA GUPTA	LL.B
2.	PRANAV ANAD	LL.B
3.	RAM GOPAL	LL.B
4.	SHAGUN MANGLA	LL.B
5.	SURINDER	LL.B
6.	KASHISH SINGHAL	LL.B
7.	SANJEEV KUMAR	LL.B
8.	ADITYA VERMA	LL.B
9.	DINESH CHAND SHARMA	LL.B
10.	KARAN SINGH	LL.B

We request you to please communicate to the selected students to join my office at Chamber No. 02 Collectorate Compound, District and Session Court, Meerut on or before 08-08-2019 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

*Gaurav Singhal*  
Advocate  
n. No. - 9513/04

**Gaurav Singhal**  
Advocate

Chamber No. 02 Collectorate Compound, District and Session Court, Meerut

*Gya*  
Director  
(Deemed to be University)  
NH-58, Meerut-250110



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Date: 16-01-2019

To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology ( Deemed to be University, Meerut on 15-01-2019 to interview the final year students of Integrated/Three Years LL.B. Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	SHUBHAM SINGH ADHANA	BA,LL.B
2.	AJIT SINGH	LL.B
3.	ANUJ SINGH	LL.B
4.	ANURAG SRIVASTAV	LL.B
5.	GAURAV SHARMA	LL.B
6.	KAPIL DEV SHARMA	LL.B
7.	KAUSHAL KISHORE	LL.B
8.	MAKARDHVAJ	LL.B
9.	PINKI PAL	LL.B
10.	RADHA	LL.B

We request you to please communicate to the selected students to join my office at Chamber No. 16 New Zila Bar Building, Collectorate Compound at District and Session Court, Meerut on or before 30-07-2019 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.

Thanking You

*16-01-2019*  
*Kuldeep Kumar Singh*  
ADVOCATE (MEERUT)  
Regd. No. 14168/2008

Ch. Kuldeep Kumar Singh  
Advocate

Chamber No. 16 New Zila Bar Building,  
Collectorate Compound ,District and Session Court, Meerut

*Registrar*  
*Shobhit Institute of Engineering & Tech*  
*(Deemed to be University)*  
*NH-58, Meerut-250114*

Ref : SU/ACS/03(CS)/2019

Dated: 02 August, 2019

To,

Excellex Softech  
D-35, Acharya Niketan  
Mayur Vihar-I  
New Delhi-91

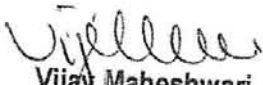
Subject: Training B.Tech. (Mechatronic) Students

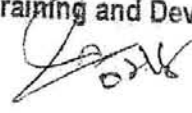
Dear Sir/Madam,

1. Please refer your letter dated 20 July, 2019.
2. I take pleasure in introducing **Mr. Mayank Gautam s/o Sh. Pramod Kumar Gautam**, Univer Roll No- MRT16UGBMT001 is a bonafide student of B.Tech. (Mechatronics) 4<sup>th</sup> Year of University.
3. Shobhit University has no objection to offer an opportunity for internship training to the above nar student by your esteemed organization.

Thanking you for kind cooperation and wish to have closer industry institute interaction in future.

Yours Sincerely,

  
Vijay Maheshwari  
Chairman  
University Training and Development Cell

Copy to :- 

Coordinator, Deptt. of ME

- for info and record, please.



  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



To,  
**Mr. MAYANK GAUTAM**  
H. No. – 850, SECTOR-9, SHIV PURI  
VIJAY NAGAR GAHAZIABAD-201009  
E mail- [gautammayank60@gmail.com](mailto:gautammayank60@gmail.com)  
Mobile - +91 8744828704

Date: 20/07/2019

**INTERNSHIP OFFER LETTER**

Dear Mayank ,  
ExcelLex SoftTech is pleased to offer you an educational internship opportunity as a **Technical Support Engineer** intern. You will report directly to Mr Amit Sharma. This position is located in D-35, 3<sup>rd</sup> Floor, Mayur Vihar Phase-1, Delhi -110091.

As you will be receiving academic credit for this position, you will not be paid (or, if hourly wage is provided, include those details). Additionally, students do not receive benefits as part of their internship program.

Congratulations and welcome to the team!

Please sign duplicate of this offer letter as token to confirm your acceptance.

With best wishes  
yours truly,

For EXCELLEX SOFTTECH




Sumit Kumar Sharma

HR Manager

I accept the above offer, and will begin on: <01/08/2019 >

  
Signature Date

  
Registrar  
Shri Sri Institute of Engg. & Tech  
(Delhi)  
NH-58, Meerut-250110



**Excellex Softtech**

D-35, Acharya Niketan, Mayur Vihar Phase-I,  
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<http://www.excellexsofttech.co.in>

# Sobhit University 100 Bed Quarantine Area

hindustan times

## Pvt varistiy converts its ho and hostel into isolation ward

HI Correspondent  
New Delhi

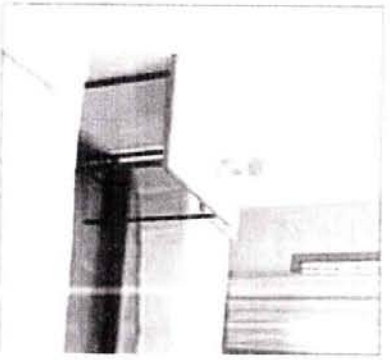
**MEERUT** To help the support the government's efforts in containing the spread of coronavirus, an independent private hospital, a school, a hostel and a hotel, Meerut International Students and Education Welfare, Delhi.

Sobhit University, with the help of a private hospital, Meerut, has also provided 100 beds of student and staff hostel and school for quarantine preparation in the month of March. The school has also been under the control of the local health administration.

While the government has the district's preparation to deal with the situation, the private sector is also playing a role. And the private sector is also playing a role in the situation. The school and support extended to Sobhit University.

At Meerut, Sobhit University is also providing support to the health department. The school has also been converted into an isolation ward of 100 beds. The school has also been converted into an isolation ward of 100 beds.

The university's chairman, Dr. Anurag Singh, said that the school has been converted into an isolation ward of 100 beds. The school has also been converted into an isolation ward of 100 beds.

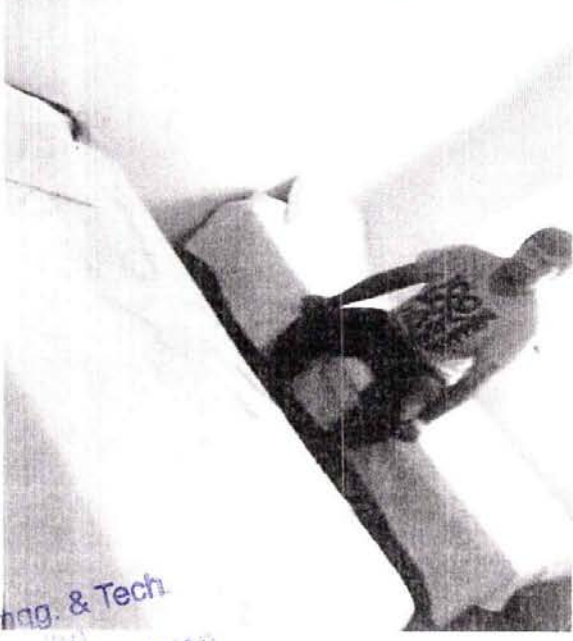
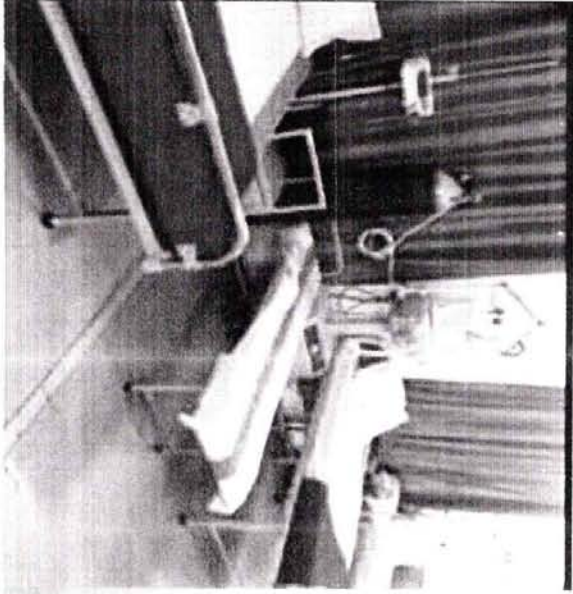


One of hostel rooms converted as a Covid-19 quarantine area at Sobhit University in Meerut.

**The hostel for international students in Meerut campus have been converted into an isolation ward of 100 beds.**

**These rooms have separate bathrooms and comfortable beds.**

**Meerut International Students and Education Welfare, Meerut.**



**आइसोलेशन वॉर्ड के लिए मेरठ के शोभित विश्वविद्यालय ने सौंपा 100 बेड का हॉस्टल**

दिल्ली में कोरोना वायरस के मामलों को नियंत्रित करने के लिए सरकार ने आइसोलेशन वॉर्ड को बढ़ावा दिया है। सोभित विश्वविद्यालय ने 100 बेड का हॉस्टल को आइसोलेशन वॉर्ड में बदल दिया है।



Registrar  
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(Deemed to be University)  
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www.dayalgroup.com fertilizers@dayalgroup.co  
CIN : U24121UP19781TC00468

Dated –18-October-2021

Batch-14

TO WHOM IT MAY CONCERN

This is to certify that **Mr . Sarthak Sirchi** Student of **SHOBHIT UNIVERSITY , MEERUT** , has successfully completed 54 days (from 15-Aug -2021 to 8-Oct -2021 ) Internship at DAYAL FERTILIZERS (P) Limited, Meerut.

During this period, we extended full cooperation to his endeavors to acquaint himself with practical operation of working in manufacturing as well as trading department of Dayal fertilizers Ltd. His manners and behavior has been excellent and cooperative. He has been keen to learn and performed well on the tasks assigned to him throughout the internship period.

We wish him every success in life.

  
(R.K. Agarwal)  
Sr. Vice President

**RAJESH K. AGARAWAL**  
Sr. Vice President  
DAYAL FERTILIZER (P) LTD.  
PARTAPUR, MEERUT

  
Regional Sales & Tech  
(Delhi Road, Partapur, Meerut-250111)  
NH-58, Meerut-250111


# राम कुमार मिश्रा मेमोरियल इण्डर कॉलेज

फरीदपुर (बरेली)


पत्रांक. 132/188.

दिनांक... 23.03.2021.....

प्रमाणित किया जाता है की छात्र/छात्रा - आरती आर्या  
01/0 संजीव कुमार ने दिनांक 01.01.2021 से 23.03.2021  
तक विद्यालय में इंटर्शिप का कार्य पूर्ण किया।  
विद्यालय के सभी कार्यक्रमों में भाग लिया।  
विद्यालय इनके उज्ज्वल भविष्य की कामना करता है।

  
प्रधान  
राम कुमार मिश्रा मेमोरियल इण्डर कॉलेज  
फरीदपुर (बरेली)



  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deenbandhu Puram, Meerut)  
NH-58, Meerut - 250116

# राम कुमार मिश्रा जी की शैक्षणिक प्रमाणपत्र

(संख्या: 25011/2024)

दिनांक: 31/05/2024

पृष्ठ संख्या: 1/1

प्रमाणित किया जाता है कि छात्र/छात्रा **राम कुमार मिश्रा** ने  
01/0 संघीय कुशल में **विद्यार्थी संख्या: 25011/2024** से **विद्यार्थी** के रूप में  
तक **विद्यालय** में **विद्यार्थी** का काम किया है।  
विद्यालय के सभी **कर्मियों** में **समय** में।  
विद्यालय इनके **विद्यार्थी** प्रमाणित है, **कार्य** करती है।



*[Signature]*  
Registrar  
Sheela Institute of Engg & Tech  
(Deer Park, Lucknow)  
NH-58, Lucknow-250111





Dr. Alpana Joshi &lt;alpana.joshi@shobhituniversity.ac.in&gt;

## Fwd: #Partnership proposal for "Shobhit University" at 16th World Education Summit 2020 , in Hyderabad, Telangana : Join India's Premier Summit on innovation in Education

1 message

shiva sharma <shiva.sharma98@gmail.com>  
To: "Dr. Alpana Joshi" <alpana.joshi@shobhituniversity.ac.in>

Mon, Dec 27, 2021 at 8:52 PM

----- Forwarded message -----

From: **Devinder Narain** <devinder.narain@shobhituniversity.ac.in>  
Date: Mon, 27 Dec 2021, 19:43  
Subject: Fwd: #Partnership proposal for "Shobhit University" at 16th World Education Summit 2020 , in Hyderabad, Telangana : Join India's Premier Summit on innovation in Education  
To: shiva sharma <shiva.sharma98@gmail.com>

----- Forwarded message -----

From: **Devinder Narain** <devinder.narain@shobhituniversity.ac.in>  
Date: Fri, Jan 3, 2020 at 5:24 PM  
Subject: Re: #Partnership proposal for "Shobhit University" at 16th World Education Summit 2020 , in Hyderabad, Telangana : Join India's Premier Summit on innovation in Education  
To: Akash Raj Agarwal <akashraj@digitalllearning.in>, Akhilesh Singh Shobhit University <akhilesh.singh@shobhituniversity.ac.in>

Dear Mr Akash,  
Greeting of New Year,

In reference to your proposal and our discussion, the University is agreed to be part of this event as University partner and ready to contribute Rs. 100000 plus GST.

You agree to offer the following deliverables:

- **Promoting your organisation as 'University Partner'**
- Speaking opportunity for Hon'ble Chancellor sir as Keynote/Expert on Education/ Innovation. (7 to 10 min)
- Speaking opportunity in a panel discussion
- 1 Award nomination in the higher education category
- **Networking** with decision-makers
- **Networking** with Government/ Ministries/ Education regulatory bodies representatives
- **Logo branding** on the event website
- **Logo branding** on event collateral (On Stage, Welcome panel, Registration desk etc)
- **Logo branding** & Promotion on social media like - LinkedIn, Facebook & Twitter
- **1 Full-Page Ad** in Digital Learning Magazine
- **1 Full-Page Interview coverage/ Article** in Digital Learning Magazine
- Speaker's Video Clip & Interview Coverage on **Elets TV**. <http://tv.eletsonline.com/category/education/>
- **3 VIP delegate** passes complimentary with meal coupons (For both days)

Please acknowledge and share the size etc. for logo and advertisement.

Thanks

Devinder Narain  
Director CR

*Signature*  
Registrar  
Shobhit Institute of Engg & Tech  
(Deemed to be University)  
NH-53, Madhapur, Hyderabad-250119



On Mon, Dec 30, 2019 at 4:55 PM Akash Raj Agarwal <akashraj@digitalllearning.in> wrote:

*Connecting Scholars Since 2014*

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*Bringing ideas into reality.....*

**Sc**  
Unit of SDPL



[www.insc.in](http://www.insc.in)

# *Certificate*

*This is to certify that*

**Alka Sahrawat**

*is recognized as Reviewer for the following  
Journal of Institute of Scholars (InSc)*

**InSc - International Journal of Basic and Applied  
Sciences**



Nanjesh Bennur  
Director, InSc

*Signature*  
Registrar  
Shri. ...  
(Deen ...)  
NH-58, ...





P-ISSN: 2349-8528  
 E-ISSN: 2321-4902  
[www.chemijournal.com](http://www.chemijournal.com)  
 IJCS 2020; 8(2): 148-154  
 © 2020 IJCS  
 Received: 28-01-2020  
 Accepted: 30-02-2020

**Alka Sahrawat**  
 Shobhit Institute of Engineering  
 and Technology, Meerut,  
 Uttar Pradesh, India

**Siddarth N Rahul**  
 A.N.D.U.A. & T., Kumarganj,  
 Ayodhya, Uttar Pradesh, India

**Sameer K Singh**  
 A.N.D.U.A. & T., Kumarganj,  
 Ayodhya, Uttar Pradesh, India

**Shweta Patel**  
 A.N.D.U.A. & T., Kumarganj,  
 Ayodhya, Uttar Pradesh, India

## The potential benefits of weeds: A comparative study: A review

Alka Sahrawat, Siddarth N Rahul, Sameer K Singh and Shweta Patel

DOI: <https://doi.org/10.22271/chemi.2020.v8.i2b.10134>

### Abstract

A weed in a general sense is a plant, usually wild or feral, that is commonly considered to be a nuisance in a garden, lawn, or other agri-cultural development. More specifically the term is often used to describe plants that grow and reproduce aggressively. Weeds may be unwanted because they are unsightly, or because they limit the growth of other plants by blocking light or using up nutrients from the soil. The term weed in its general sense is a subjective one, without any classification value, since a plant or herb is not a weed when growing where it belongs or is wanted. Despite of being harmful some weeds are called, beneficial plants or herbs as they are edible, use for food or herbal medicine. Other advantage of such beneficial herbs may be the keeping away of some insect pests of crops. Many researchers have pointed out that there is scarce evidence to prove that pests move from the alternative host in sufficient numbers to cause significant crop damage, even in the case of pests such as some of the aphids which are obliged to alternate between hosts to complete their life cycle.

**Keywords:** Weed, harmful, beneficial effect, alternate host

### Introduction

Weeds are defined as any plants that are growing in unwanted areas or plants growing in everlastingly human-disturbed environments but do not depend on human interference for reproduction and survival. These plants may be found growing on agricultural fields and gardens or as ruderal plants (Ngugi *et al.* 1978; Stephen 1982; Casas *et al.* 1996) <sup>[1, 85, 3]</sup>. Weeds are usually seen to have adverse effects not only in agricultural lands but also in natural wild ecosystems. In terms of agriculture these plants compete against crop plants for available resources, lower the quality of agricultural produce, lower quality of pastures. Despite of these some are poisonous, increase costs of production, harbor pests, while some block irrigation after growing immeasurably (Ngugi *et al.* 1978; Klingman *et al.* 1982; Ivens 1989; Cousens & Mortimer 1995) <sup>[1, 4, 5, 6]</sup>. In concern to biodiversity conservation considerations weed and other aggressive species are often supposed to act as "plant pests" (Miller 1999), one of the two major threats to biodiversity, second to habitat damage (Heywood 1995; Mungoro & Tezoo 1999) <sup>[8, 9]</sup>. This may be especially so when weed species are lack natural enemies, grow faster than native plant species and are able to produce plenty of seeds (Richardson *et al.* 1992) <sup>[10]</sup>. The species which grow on their own, without human efforts can be termed as weeds. They are in general harmful to the crops and can dominate the vegetation if not cared for. The weeds are of no use as they are harmful to crop. They are generally controlled from crop fields and destroyed. Many of the weeds are found to be medicinally important. Such weeds can be collected from crop fields and used for curing the diseases.

### Losses caused by weed

The losses caused by weeds exceed the losses from any other category of agricultural pests, such as insects, nematodes and rodents. Among the total annual losses of agricultural product from various pest, weeds account for 45%, insects for 30%, diseases 20% and other pest 5% as shown in Figure 1 (Rao 2000) <sup>[81]</sup>

**Corresponding Author:**  
 Siddarth N Rahul  
 A.N.D.U.A. & T., Kumarganj,  
 Ayodhya, Uttar Pradesh, India

Registrar  
 Shobhit Institute of Engg. & Tech.  
 ~ 148 ~  
 (Deemed to be University)  
 NH-58, Meerut-201002 (UP)





Dr. Alpana Joshi &lt;alpana.joshi@shobhituniversity.ac.in&gt;

## IEEE Webinar by Dr. Shivam Verma, titled "Spintronic Devices and Non-volatile Logic,"

1 message

IEEE eNotice <enotice@enotice.ieee.org>  
 Reply-To: Nayaneesh Mishra <nayaneesh@gmail.com>  
 To: alpana.joshi@shobhituniversity.ac.in

Tue, Dec 28, 2021 at 12:46

If you are having trouble reading this message, click here for the web version.

The world's largest technical professional organization dedicated  
 to advancing technology for the benefit of humanity



Dear IEEE Members

IEEE UP Section is organizing IEEE Webinar, by Dr. Shivam Verma titled, "**Spintronic Devices and Non-volatile Logic**". You are cordially invited to attend the same. The detail of the event are as follows:

Event: IEEE Webinar

Topic: **Spintronic Devices and Non-volatile Logic**Speaker: **Dr. Shivam Verma**, Assistant Professor, Indian Institute of Technology (BHU)Date: **28th December 2021**Time: **05:00 pm (GMT+5:30)**

Mode: Online

WebEx meeting link: <https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m390dc59c46db42d87d9e46659ecb6f6b>

Who should attend: UG/PG Students, Research Scholars/ IEEE members

**This event does not require any registration.****Speaker biography:**

Shivam Verma received the B.E. degree in electronics and communication engineering from Shri Vaishnav Institute of Technology and Science Indore, Indore, India, in 2010, the M.Tech. degree in Microelectronics from the Indian Institute of Technology (BHU) Varanasi, in 2012, and the Ph.D. degree in Electronics and Communication Engineering from the Indian Institute of Technology, Roorkee, in 2016. He was an Assistant Professor with the Department of Electronics and Communication Engineering, National Institute of Technology, Warangal, from 2018 to 2019. He is currently an Assistant Professor with the Department of Electronics Engineering, Indian Institute of Technology (BHU), Varanasi. His current research interests include spin-transfer-torque-based memories and all spin logic.

**Brief of the talk:**

This lecture will cover fundamental concepts of spintronics

- Brief History of spintronics
- Motivation for spintronic devices
- Magnetic Tunnel Junctions
- Non-volatile spin torque memory
- Non volatile logic.

---  
 Thanks and regards  
 Ankit  
 IEEE UP Section SAC

**Attachments:**

IEEE Webinar by Dr. Shivam Verma on Spintronic Dev

Uttar Pradesh Section : <http://www.ieeeup.org/>

Manage your IEEE Communication Preferences at the IEEE Privacy Portal

Register at  
 Shobhit Institute of  
 Technology & Tech  
 (Deemed to be University)  
 NH-58, Madhaurpur, Varanasi-221010



# Shobhit

Institute of Engineering & Technology  
Deemed to-be-University

EDUCATION EMPOWERS

Shobhit Institute of Engineering & Technology

(A NAAC Accredited Deemed to-be University)

NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

The Principal/Manager

Date- 14/01/2021

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from .....to..... (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

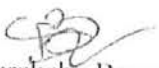
So, it is my request that please give the permission for your kind co-operation.


Name- Ameer Faisal

Father's name- Saleem Akhtar

Roll No.- MRT190GBED024

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to-be-University)  
NH-58, Modipuram, Meerut-250110





# AZAD HIGH SCHOOL

## MUZAFFARNAGAR

Manager / Principal  
Beside Tehsil Sadar  
694.1, Rehmat Nagar  
Muzaffarnagar (U.P.)  
Ph. 9557268234

(A Recognised Minority Institution)

Ref. No. 21.6.....

Date 11.01.21...

### प्रमाण-पत्र

प्रमाणित किया जाता है कि अमीर फैसल पुत्र श्री सलीम अख्तर, 204 दक्षिणी खालापार, मु0नगर ने इस विद्यालय में दिनांक 15.01.2021 से दिनांक 14.05.2021 तक चार माह का अध्ययन प्रशिक्षण (ऑन लाइन) प्राप्त किया। इनकी अध्यापन शैली उत्कृष्ट है तथा पाठ्य सहगामी क्रिया कलापों में रूचि प्रशंसनीय है।

मैं इनके सुखद व उज्ज्वल भविष्य की कामना करता हूँ।

प्रधानाचार्य  
Principal  
आजाद हाई स्कूल  
AZAD HIGH SCHOOL  
मु0नगर Muzaffarnagar

Registrar  
Shehnaaz Begum, B.A. & Tech.  
(Deemed to be  
NH-58, Muzaffarnagar, Dist-250114)





# Shobhit

Institute of Engineering & Technology

Deemed to be University

Shobhit Institute of Engineering & Technology  
11th Floor, Shobhit Tower, Sector-10, Noida-201301  
U.P. INDIA. Ph: 0120-2711000, 2711001, 2711002  
E: shobhit@shobhit.ac.in, shobhit@rediffmail.com  
www.shobhit.ac.in

Ref: SU/RO/ADS/5(Law)/2020

Dated: 12<sup>th</sup> June, 2020

To,

**Mr. Amit Rai**

S/o Shri R.E Rai

B-504 Rustomjee Orana Gandhi Nagar  
Near Mig Club Mumbai

**Sub: Appointment of Co- Supervisor**

Dear Mr. Amit Rai,

- Please refer this University letter No SU/RO/ADS/5(Law)/2018 dated 24 December, 2018
- As per the provisions of Ph.D. Ordinance (December-2018 print), the supervisor has been re-appointed as under to supervise your research work. You are requested to contact with your new supervisor for guidance on your research work.

<b>Enrolment No</b>	2018130046	<b>Registration No</b>	SU/Ph.D./P.T./Law/18/06
<b>Date of Registration</b>	29 <sup>th</sup> August, 2018	<b>Subject</b>	Law
<b>Research Topic</b>	Role of Media in Protecting Human Right in India		
<b>Supervisor(s)</b>	1. <b>Prof.(Dr.) Rashmi K. Nagpal</b> , Professor & Dean, SLCS Shobhit Institute of Engg. & Tech. (A NAAC Accredited Deemed to be University), NH. 58, Modipuram, Meerut-10 2. <b>Prof.(Dr.) M. P. Singh</b> , Chief Professor, Centre for Comparative Law National Law University, Delhi		

Yours Sincerely,

**Dr. Ganesh Bhardwaj**

Offg. Registrar

Copy to :

- Prof.(Dr.) Rashmi K. Nagpal**, Professor & Dean SLCS  
Shobhit Institute of Engg. & Tech.,  
(A NAAC Accredited Deemed to be University),  
NH-58, Modipuram, Meerut
- Prof.(Dr.) M. P. Singh**, Chief Professor  
Centre for Comparative Law, National Law University, Delhi  
Internal : School of Law and Constitutional Studies

- for information, please.

Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250114



To,

Date- 22/06/2021

The Principal/Manager  
..KUSUM..PUBLIC..SCHOOL.....  
..SAKOTI..TANDA..MEERUT

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

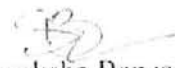
As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 15/01/2021.....to 17/05/2021..... (4 Months). We can't organize the program without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation


Name- Amit Sirohi  
Father's name- Ashok Sirohi  
Roll No.- MRT1906BED049

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

Principal,  
Shobhit University Meerut

  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110

Permission is being granted  
for internship of B.Ed II year  
  
SK-SMA 2021  
22/06/2021  
Principal,  
Kusum Public School  
Dashrathpur, NH 58  
Meerut





# KUSUM PUBLIC SCHOOL

Affiliated to CBSE, New Delhi. Affiliation No. : 2130888  
N.O.C. No. 748/15-7-16 (113) 2005  
School No. 60400

9410683692  
9761777549  
9927922626

Dashrathpur, Sakoti (Tanda) Meerut, 250223

Ref. No. ....

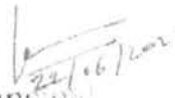
Dated 22/06/2021

## TO WHOM SO EVER IT MAY CONCERN


It is to certify that **Mr. Amit Sirohi** S/o Shri Ashok Sirohi has worked with us in the capacity of Assistant Teacher during the period **18 Jan 2021 to 17 May 2021**. During his tenure, while working in the school.

Amit Sirohi has been a very sincere honest, hard working, punctual & obedient teacher & has always given his best performance as a teacher.

## WE WISH AMIT SIROHI A BRIGHT FUTURE AHEAD

  
Principal  
Kusum Public School  
Dashrathpur NH-58  
.....Meerut.....

(S.K SHARMA)  
PRINCIPAL

  
Registrar  
Shri Yantri Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Meerut, Distt-250114



# शिवम उ० मा० विद्यालय, मालैण्डी

जनपद-शामली (उ० प्र०) मो० : 9719637173, 8923686745

पत्रांक

दिनांक. 25/05/2021

- This is to certify that Mr. Ankur Choudhary S/o Mr. Kanwarpal Singh, Roll No. MART19UGBED002 student of B.Ed 2 yr program in Shobhit Institute of Engineering & Technology, Meerut has successfully completed 4 months (from 13/01/2021 to 15/05/2021) internship in our school. His internship activities include Teaching, organizing of morning assembly, maintenance of attendance register, organization of co-curricular activities etc.
- During the period of his internship program with us, He has been exposed to different process was found punctual, hardworking & unquiescent. We wish him very best in all his future endeavors.

Yms  
Registrar  
Shobhit Institute of Engg. & Tech  
(Distt. Meerut)  
NH-50, Meerut  
250114

Principal  
Shivam H.S. School  
Malendi (Shamli)





Dr. Alpana Joshi &lt;alpana.joshi@shobhituniversity.ac.in&gt;

---

**Internship letter**

1 message

---

**Dr. Alpana Joshi** <alpana.joshi@shobhituniversity.ac.in>

Mon, Jul 12, 2021 at 5:27 PM

To: avanish.kumar@dayalgroup.com, jitendra.kumar@dayalgroup.com, jk.singh@dayalgrouo.com

Dear Sir/Madam,

Our students are interested in an internship at Dayal company as a part of their RAWE program of B.Sc Ag degree and I am sending a consent letter regarding that in the attached files.

Let me know if anything else required from my side,

Thank you,

--

**Dr. Alpana Joshi**

Associate Professor &amp; Head

Department of Agriculture &amp; Agri-Informatics

School of Biological Engineering &amp; Sciences

Shobhit Deemed University

**Mobile: 9634712358****E-mail id:** joshi.alpana@gmail.com**URL:** www.shobhituniversity.ac.in**Internship\_Letter\_Anshika Sharma.pdf**

366K



*Alpana Joshi*  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-68, Meerut - 250110



## DAYAL SEEDS (P) LIMITED

Delhi Road, Pattapur, Meerut - 250 103

0121-2440028, 2440130-132. Toll Free : 1800 270 1979

www.dayalgroup.com seeds@dayalgroup.com

CIN : U51311DL1998PTC094653

September 25, 2021

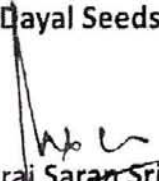
### TO WHOM IT MAY CONCERN

This is to certify that **Ms. Anshika Sharma** D/o Sh. Devendra Sharma, student of B.Sc. (Ag.) at Shobhit University, has undergone Summer Internship from **July 17, 2021 to September 18, 2021** in the Seed Lab of our Organization. During the Internship she worked on the projects titled "**Industrial Attachment & Seed Testing Methods**".

During this period her conduct & behavior has been found satisfactory.

**We wish her great success in his future endeavors**

For **Dayal Seeds (P) Limited**

  
**Neeraj Saran Srivastava**  
Assistant Vice President  
Human Capital & Administration



  
Registrar  
Shri Yantra  
(Dept. of Agriculture & Tech  
NH-58, Meerut-250111)

(A DAYAL GROUP COMPANY)



To,

Date- 7/01/2021

The Principal/Manager  
.....  
.....

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from ..10 जनवरी 2021.....to....10 मई 2021..... (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- KM ANSHU DHIMAN

Father's name- RADHAY SHYAM

Roll No.- MKT19UGBED033

Thanking you

Dr. Suraksha Baiswal

Head, School of Education

Shobhit University, Meerut

*M. Dey*  
प्रधानाचार्य  
सुखतरा सुखतर माध्यमिक विद्यालय  
स्कुलपुर कैलेश्वर गौली (मु0 नगर)

*Dr. Suraksha Baiswal*  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



प्रेषक:-

।। विद्या ददाति विनयम् ।।

फोन नं. 9837473325

प्रधानाचार्य/प्रबन्धक

सेवा में,

# राजवंश 30 मा० विद्यालय

ग्राम रसूलपुर-कैलोरा, खतौली (मु० नगर)

विषय:-

पत्रांक.....

दिनांक 10/05/2021.....

जमापित किया जाता है कि हाजा कुं अंशु बीजापुर पुत्री शिक्षण विद्यालय में आद्यपि का के रूप में 10 जनवरी 2021 को डी.पी. के लिये निष्कृत को जर्ज इनकी कक्षा 6th में टि-टी और समाधि 5 मिघाम किने जपे कक्षा में हाजा/हाजाको को बहुत ही सरल तरीके समझाया और पंजाप फिलो हाजा के उत्साह भी देखते को फिला विद्यालय प्रबन्ध कीमति में लक्ष्य में केवल बहुत कुछ है प्रबन्ध कीमति इनके उल्लवत भविष्य की व्यापन) करते है।

कार्यकाल 10 जनवरी से 10 मई 2021 तक

*Prady*  
 प्रधानाचार्य  
 राजवंश उच्चतर माध्यमिक विद्यालय  
 रसूलपुर कैलोरा खतौली (मु० नगर)



*Shobhit*  
 Registrar  
 Shobhit Institute of Engineering & Tech.  
 (Deoria, Uttar Pradesh)  
 No. 53, Mohanpur, Deoria-250111



## Novel H-shaped EBG in E-plane for Isolation Enhancement of Compact CPW-fed Two-Port UWB MIMO Antenna

Anubhav Kumar, Asok De & R.K. Jain

To cite this article: Anubhav Kumar, Asok De & R.K. Jain (2021): Novel H-shaped EBG in E-plane for Isolation Enhancement of Compact CPW-fed Two-Port UWB MIMO Antenna, IETE Journal of Research, DOI: [10.1080/03772063.2021.1986147](https://doi.org/10.1080/03772063.2021.1986147)

To link to this article: <https://doi.org/10.1080/03772063.2021.1986147>



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## Gain Enhancement Using Modified Circular Loop FSS Loaded with Slot Antenna for Sub-6 GHz 5G Application

Anubhav Kumar<sup>1,\*</sup>, Asok De<sup>2</sup>, and Rakesh K. Jain<sup>1</sup>

**Abstract**—In this paper, a modified circular loop Frequency Selective Surface (FSS) loaded on a slot antenna is proposed for sub-6 GHz 5G applications. The proposed FSS reduces the resonant frequency to lower bands of conventional circular FSS without change in its size. The operating bandwidth (–10 dB) of the proposed antenna with polarization-insensitive single-layer FSS varies from 3.6 GHz to 6.1 GHz with an average gain of 7–7.5 dB and a maximum realized gain of 7.87 dB. An FSS superstrate is loaded onto a slot antenna to increase the realized gain up to 4 dB, where the FSS shows desirable electromagnetic wave reflection characteristics over operating bandwidth and can be used in 5G sub-6 GHz band applications.

### 1. INTRODUCTION

Frequency selective surface (FSS) structure is used for gain, bandwidth enhancement and grating lobe reduction in microstrip antenna, which can reflect or pass the EM waves coming from the antenna. Several gain enhancement techniques have been investigated to enhance the properties of microstrip antenna such as artificial magnetic conductor (AMC) [5], metamaterial [1, 6, 13], single [8, 10], and double-layer FSS [2, 7, 11]. In [1], a double split ring reflector based on mu-negative characteristic of the metasurface is used for gain enhancement. The dual FSS layers based on stopband reflector are loaded on a ultra-wideband (UWB) antenna, where a split ring in the top layer and the combination of Jerusalem cross (JC) FSS with a square loop in the bottom layer are used for gain enhancement [2]. A parabolic cylinder FSS reflector is accomplished on a dielectric resonator antenna (DRA) and monopole antenna to enhance the gain [3]. Due to the tremendous reflecting and absorbing property of FSS, multilayer FSS is also a popular approach for enhancing the parameters of a microstrip antenna. In [4], a multi-layer bandpass FSS placed above the antenna is used to enhance the gain. In [5], a triple band AMC structure is used below the antenna for gain enhancement where AMC represents zero reflection phases in the resonant frequencies. In [6], split-ring resonator (SRR) metamaterial is loaded on a DRA to enhance the gain with stable efficiency in the operating bandwidth. In [7], a double-layer passband FSS is used to influence the gain at ISM band placed over microstrip antenna. In [8], the single-layer passband substrate integrated waveguide (SIW)-FSS is loaded to enhance the gain of a microstrip antenna whereas in [9] an FSS combined with a DRA is used for gain enhancement. In [10], double-side single layer FSS incorporated with chip resistor is used for gain enhancement of a DRA in X-band. Similarly in [11, 12], a double-layer FSS reflector is designed for UWB applications, improving the gain effectively. In [13], a metamaterial SRR incorporated with the antenna in the same substrate is used to enhance the gain in two operating bands. In the proposed paper, a modified circular loop FSS is designed. The insensitive polarization FSS is analyzed for the gain improvement of a slot antenna based on microstrip-feed in sub-6 GHz operating bandwidth.

Received 11 March 2021, Accepted 24 May 2021, Scheduled 30 May 2021

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<sup>1</sup> Department of Electronics and Communication Engineering, Shobhit Institute of Engineering and Technology, (Deemed to be University) Meerut, Uttar Pradesh, India. <sup>2</sup> Department of Electronics and Communication Engineering, Delhi Technological University (DTU), New Delhi, India.

Registrar  
Shobhit Institute of Engg. & Techn  
(Deemed to be University)  
NH-58, Meerut, Uttar Pradesh-250114





# INDICATOR BASED CYBER THREATS DETECTION FOR DATA OF SMART CITIES USING BIO-INSPIRED ARTIFICIAL ALGAE ALGORITHM

**Arpit Chhabra**

Ph.D. Research Scholar, Sir Chottu Ram Institute of Engineering & Technology,  
Ch. Charan Singh University, Meerut, India

**Niraj Singhal**

Professor, Shobhit Institute of Engineering and Technology (Deemed University),  
Meerut, India

## ABSTRACT

*Smart cities can become attractive targets for large-scale cyber threats and security attacks, which have a wider impact on the entire smart city ecosystem and the smart cities residents. To apply the detection strategy that matches the appropriate detection approaches to risks, resources and examine the activity in environments and compare with the single action and aggregate action against a set of known malicious or suspicious activity. In order to deploy the indicator based threat detection system with AAA algorithm is the quickest form of detection searches and highly effective for scoping an environment post observation and their value is highly dependent on the adversary's rate of change*

**Keywords:** Smart cities, Cyber threats, smart solutions, APT's, Artificial Algae algorithm, Epicenter.

**Cite this Article:** Arpit Chhabra and Niraj Singhal, Indicator Based Cyber Threats Detection for Data of Smart Cities using Bio-Inspired Artificial Algae Algorithm, *International Journal of Advanced Research in Engineering and Technology*, 11(11), 2020, pp. 1530-1536.

<http://www.iaeme.com/IJARET/issues.asp?JType=IJARET&VType=11&IType=11>

## 1. INTRODUCTION

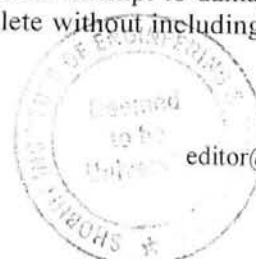
Cyber threats to smart cities are one of the most important challenges. Considering the ever-expanding risk landscape, emerging in smart cities may be targeted for various adversary interests. Cyber threats means the possibility of a malicious attempt to damage or disrupt a computer network or system. This definition is incomplete without including the attempt to

*Signature*  
Registrar

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Nri-58, Meerut, U.P. India. Ph: 0591-250119

<http://www.iaeme.com/IJARET/index.asp>

1530



editor@iaeme.com



Dr. Alpana Joshi &lt;joshi.alpana@gmail.com&gt;

**Fwd: Summer Internship with Sumitomo**

1 message

Dr. snigdha tiwari <snigdha.tiwari@shobhituniversity.ac.in>  
To: joshi.alpana@gmail.com

Fri, Dec 24, 2021 at 1:17 F

----- Forwarded message -----

From: **manoj gupta** <manojguptaagri@gmail.com>

Date: Wed, Jun 26, 2019 at 11:30 PM

Subject: Summer Internship with Sumitomo

To: &lt;snigdha.tiwari@shobhituniversity.ac.in&gt;

Cc: Jaspal singh &lt;jaspalsingh\_bayer@yahoo.com&gt;, &lt;sakshi@sumichem.co.in&gt;, Enna &lt;cpds-internal@sumichemindia.com&gt;

Dear Snigdha,

In reference with our telephonic discussion regarding Summer project with Sumitomo Chemical.

Please find below the internship opportunity for B.Sc. Agriculture students .

Company Name :- Sumitomo Chemical India Ltd.

**About the company** :- Sumitomo Chemical Co., Ltd. is a major Japanese chemical company. The company is listed on the first section of the **Tokyo Stock Exchange** and is a constituent of the on the **Nikkei 225 stock** index. It's a member of the Sumitomo group and was founded in 1913 as a fertilizer manufacturing plant.

**Eligible students** :- B.Sc Agriculture ( Pre - final and Final year Students ) .

The students will be given certificate on successful completion of their training .

**Stipend** :- Rs. 15,000/- per month (Inclusive of all Accomodation and Fooding)**Requirement** : 10**Duration** : 35 days ( 5th July to 10th Aug )


As this is a Field project. So Motor cycle with valid driving license is mandatory.

The students will get corporate training and real time field/ trade knowledge of agrochemicals. .

I request you to kindly share the student list with their contact no. and permanent adress at earliest. .

Thanks &amp; Regards,

**Manoj Gupta**  
+91 9041912200

  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modhera, Gandhinagar, Meerut-250114



12/26/21, 12:03 PM

Gmail - Fwd: Summer Internship with Sumitomo

On Wed, Jun 26, 2019 at 11:30 PM manoj gupta <manojguptaagri@gmail.com> wrote:  
**Dear Snigdha,**

**In reference with our telephonic discussion regarding Summer project with Sumitomo Chemical.**

**Please find below the internship opportunity for B.Sc. Agriculture students .**

**Company Name :- Sumitomo Chemical India Ltd.**

**About the company :-** Sumitomo Chemical Co., Ltd. is a major Japanese chemical company. The company is listed on the first section of the **Tokyo Stock Exchange** and is a constituent of the on the **Nikkei 225 stock** index. It's a member of the Sumitomo group and was founded in 1913 as a fertilizer manufacturing plant.

**Eligible students :-** B.Sc Agriculture ( Pre - final and Final year Students ) .

The students will be given certificate on successful completion of their training .

**Stipend :-** Rs. 15,000/- per month (Inclusive of all Accomodation and Fooding)

**Requirement : 10**

**Duration : 35 days ( 5th July to 10th Aug )**

As this is a Field project. So Motor cycle with valid driving license is mandatory.

The students will get corporate training and real time field/ trade knowledge of agrochemicals. .

I request you to kindly share the student list with their contact no. and permanent adress at earliest. .

Thanks & Regards,

**Manoj Gupta**  
**+91 9041912200**

---

**Dr. Alpana Joshi, Ph.D (IIT Kharagpur), PDF (ARS-USDA)**

Associate Professor & HOD

Department of Agriculture & Agri-Informatics

School of Biological Engineering & Life Sciences

Shobhit Institute of Engineering & Technology (Deemed-to-be-University), Modipuram, Meerut

<https://orcid.org/0000-0001-6417-7663>

Scopus Author ID: 57209838682

---

**Dr. Alpana Joshi, Ph.D (IIT Kharagpur), PDF (ARS-USDA)**

Associate Professor & HOD

School of Agriculture technology & Agri-Informatics

School of Biological Engineering & Life Sciences

Shobhit Institute of Engineering & Technology (Deemed-to-be-University), Modipuram, Meerut

**Phone:** 9634712358

<https://orcid.org/0000-0001-6417-7663>

Scopus Author ID: 57209838682



**Students Training List.docx**

48K



Handwritten signature and blue stamp: "Shobhit Institute of Engineering & Tech. Modipuram, Meerut-250110"



shiva sharma &lt;shiva.sharma98@gmail.com&gt;

## Fwd: Summer Internship with Sumitomo

1 message

**Dr. Alpana Joshi** <alpana.joshi@shobhituniversity.ac.in>  
To: shiva <shiva@shobhituniversity.ac.in>

Sun, Dec 26, 2021 at 11:55 AM

----- Forwarded message -----

From: **Dr. Alpana Joshi** <joshi.alpana@gmail.com>  
Date: Fri, Dec 24, 2021 at 3:13 PM  
Subject: Fwd: Summer Internship with Sumitomo  
To: Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>

----- Forwarded message -----

From: **Dr. snigdha tiwari** <snigdha.tiwari@shobhituniversity.ac.in>  
Date: Fri, Dec 24, 2021 at 1:20 PM  
Subject: Fwd: Summer Internship with Sumitomo  
To: <joshi.alpana@gmail.com>

----- Forwarded message -----

From: **Dr. snigdha tiwari** <snigdha.tiwari@shobhituniversity.ac.in>  
Date: Wed, Jul 3, 2019 at 5:14 PM  
Subject: Re: Summer Internship with Sumitomo  
To: manoj gupta <manojguptaagri@gmail.com>

Good Evenng!

Dear Manoj,

I have hereby attached the list of students of Dept. of Agriculture and Agri-informatics for training schedule from 05-07-2019 to 10-08-2019. Kindly go through the attached file.

With Regards  
Dr. Snigdha Tiwari

On Tue, Jul 2, 2019 at 3:48 PM Dr. snigdha tiwari <snigdha.tiwari@shobhituniversity.ac.in> wrote:

Hello Manoj,

I will provide you the list of students by tomorrow. Actually, with one student it's not certain yet whether he will be able to join or not. Sorry for the delay.

With Regards  
Dr. SNIGDHA TIWARI  
Asst. Professor & Coordinator  
Department of Agriculture & Agri-Informatics  
School of Biological Engineering & Life Sciences  
Shobhit Deemed University, Meerut  
Mob: +919457907517  
E-mail id: snigdha.tiwari@shobhituniversity.ac.in  
snigdha.tiwari07@gmail.com

*Signature*  
Registrar  
Shobhit Institute of Engg. & Tech.  
Meerut-250110



## Comparison of Treatment Planning Parameters of Different Radiotherapy Techniques for Craniospinal Irradiation

Brijesh Goswami<sup>1,2\*</sup>, Rakesh Kumar Jain<sup>2</sup>, Suresh Yadav<sup>3</sup>, Sunil Kumar<sup>1</sup>, Saji Oommen<sup>1</sup>, Sapna Manocha<sup>1</sup>, Ganesh K. Jadhav<sup>1</sup>

1. Department of Radiotherapy, Indraprastha Apollo Hospital, New Delhi-110076, India
2. Department of Physics, Shobhit Institute of Engineering & Technology, Meerut, Uttar Pradesh-250110, India
3. Department of Radiotherapy, Gandhi Medical College, Bhopal-462001 (M.P.), India

ARTICLE INFO	ABSTRACT
<p><b>Article type:</b> Original Paper</p> <p><b>Article history:</b> Received: Jan 05, 2020 Accepted: Jun 17, 2020</p> <p><b>Keywords:</b> Three-Dimensional Conformal Radiotherapy Helical Intensity-Modulated Radiotherapy Linear Accelerator Craniospinal Irradiation</p>	<p><b>Introduction:</b> The current study aimed to compare linear accelerator-based three-dimensional conformal radiotherapy (Linac-3DCRT) technique with different techniques of the Radixact-X9 for the treatment of craniospinal irradiation (CSI).</p> <p><b>Material and Methods:</b> Following a retrospective design, 22 CSI patients (Medulloblastoma) treated with Linac-3DCRT using the Novalis-Tx unit were selected for analysis. For each patient plan, additional sets of plans were generated using Helical, Direct-3DCRT, and Direct-intensity-modulated radiotherapy (Direct-IMRT) techniques of the Radixact-X9 unit. The dose prescription for brain planning target volume (brain PTV) and spine PTV were 36 Gy in 20 fractions and kept the same for all techniques. Planning time, patient setup time, homogeneity index (HI), and different dose-volume parameters for both PTV and organs at risk (OARs) were evaluated for comparison.</p> <p><b>Results:</b> The Radixact-X9-Helical technique can generate a plan in a more comparable and better manner in respect of maximum and minimum doses for most of the organs. The Radixact-X9-Helical technique resulted in better PTV homogeneity in comparison with Linac-3DCRT, Radixact-X9-Direct-3DCRT, and Radixact-X9-Direct-IMRT. The values of HI were <math>3.57 \pm 0.77</math>, <math>17.37 \pm 1.44</math>, <math>8.15 \pm 1.02</math>, and <math>8.62 \pm 0.98</math>, respectively.</p> <p><b>Conclusion:</b> Not only administration of the Radixact-X9-Helical treatment technique is easier, but also can generate a better homogeneous plan than other treatment techniques like 3DCRT and IMRT regarding different parameters for comparisons like dose-volume received by OARs, patient setup time, move isocenter, and many more. So it can be an integral part of the radiotherapy department, according to their clinical needs like shorter treatment time with good sparing of critical OARs.</p>

► Please cite this article as:

Goswami B, Jain RK, Yadav S, Kumar S, Oommen S, Manocha S, Jadhav GK. Comparison of Treatment Planning Parameters of Different Radiotherapy Techniques for Craniospinal Irradiation. Iran J Med Phys 2021; 18: 164-170. 10.22038/ijmp.2020.45574.1712.

### Introduction

Medulloblastoma is the most common malignant neoplasia of the central nervous system (CNS) in children, which constitutes about 20% of pediatric brain tumors. It is less common among adults (a prevalence of <1%) [1]. Recently developed radiotherapy technologies resulted in better outcomes for such patients [2, 3]. A good understanding of anatomy and radiobiology can help clinicians for making better decisions regarding the diagnosis and treatment of this disorder [4]. Currently used standards of care contain safe and maximum resection, followed by chemotherapy and radiotherapy, resulting in a 5-year rate of >80% for average-risk patients and >50% for high-risk patients [5]. In craniospinal irradiation (CSI), the planning target volume (PTV) has a complex shape and large volume, because it is highly challenging to plan and deliver. For children, there has been a continuous improvement in the long-term survival of medulloblastoma cases. Despite providing good

survival, it has some important long-term side effects, including growth issues, hearing problems, endocrine dysfunction, cataract, neurocognitive decline, cardiomyopathy, second malignancies, and infertility.

In contrast to the traditional landmark technique on X-ray film, computed tomography (CT) simulation is a modern technique of field-shaping [6, 7]. Modern radiotherapy techniques developed for CSI are intended to minimize long-term side effects with a more conformal and homogeneous dose to target. The conventional bilateral field for the brain with two or three posterior fields for the spine is sufficient to cover the whole target. Due to field size limitation in Linac, junction matching is always necessary for underdose and overdose areas. Multiple isocentric techniques are associated with reduced homogeneity; however, they increase the complexity of planning [8, 9]. Radixact-X9 (Accuray, WI, USA), the generally advanced form of previous tomotherapy unit, can give the dose in any direction of 360° by using intensity-

\*Corresponding Author: Tel: +91 8527308145, Email: brijeshgoswami2014@gmail.com, brijeshccs@rediffmail.com

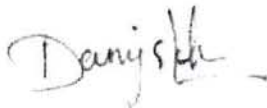
**CERTIFICATE**

This is to certify that Mr Deepak Kumar has completed an internship at **Technoarete** from 08/01/2020 to 09/12/2020 as a Business Developer – Intern.

During the period of his internship programme with us his performance standard considered as Good.

We wish him all the best for his future endeavours.

Warm Regards,



Ms. Daniya Khan

HR-Technoarete Group



  
Technoarete Group & Tech  
Chennai  
Phone: +91-44-25011333

# GYANSTHALI PUBLIC SCHOOL

(SENIOR SECONDARY)

Affiliated to C.B.S.E., New Delhi, (Aff. No. 2130790)



GPS/GEN/2020-21/76

10.06.2021

*The HOD  
School of Education  
Shobhit Institute of Engineering & Technology  
Meerut, UP, India*

## Subject: Letter of Internship/ Experience

*This is to certify that Mr Deepak Kumar Dhiman S/O Mr Ramesh Chand Dhiman has successfully completed the internship programme in our school.*

*He has been serving this school since 2011 till date. During this tenure of internship/service his work has been satisfactory.*

*I wish him all the success in life.*

Director

Gyansthal Public School  
Miranpur (Muzaffarnagar)  
UP-251315 Aff.No. 2130790

Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut-250112





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Institute of Engineering & Technology  
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NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

Date- 13/01/2021

The Principal Manager

BAGESHWARI PUBLIC SCHOOL

SADARPUR, GHAZIABAD (U.P)

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be University) is organizing this programme from 15-1-2021 to 14-5-2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- Deepak Kumar Rathi

Father's name- Satendra Kumar

Roll No.- MRTIQUABED012

Thanking you

Dr. Suraksha Bansal

Head, School of Education

Shobhit University, Meerut

Principal  
Bageshwari Public School  
Sadarpur, Ghaziabad  
1-5-21/21



Registrar

Shobhit Institute of Engg. & Tech.

(Deemed to-be University)

NH-58, Modipuram, Meerut-250110





# BAGESHWARI PUBLIC SCHOOL

SADARPUR, GHAZIABAD (U.P)

15.05.2021

This is to certify that Deepak Kumar Rathi  
Son of Satendra Kumar has started  
four month Internship In B.ed II Year  
Programme as faculty of science department  
In BAGESHWARI PUBLIC SCHOOL, SADARPUR  
GHAZIABAD (U.P). He has working  
In our school since 15-1-2021 to  
14-5-2021

Registrar  
Shri. ...  
(Distt. ...)  
NH-58, ...

Ministry of Skill Dev. & Tech.  
250113



Principal  
Bageshwari Public School  
Sadarpur, Ghaziabad

15/5/2021

# Robust Watermarking Technique for Sharing Family Photos on Social Media using Aadhar Number and DCT

Deepti Varshney, Mamta Bansal, Birendra Kumar Sharma

**Abstract:** The mind setup of persons has been changed in today's environment due to the easily available of internet and smart phone on very low-price cost. Smart phone and internet are two main resources which are being used by persons most of the time in his/her daily routine specially in lockdown due to COVID-19. In this lockdown, persons are doing some creative activity, making fun, etc and recording all his/her this personal information in the form of multimedia contents like text, images, audio and video. This created multimedia content is shared by persons frequently on globe through internet in the daily routine life and some other persons are watching this daily routine activity and making huge business with these data by sometimes with original content or sometimes with modified content without concerns/information/permission of the originator. In this process if everything is going in right way then no issues but if something going wrong then require legal issues and for this, we need to protect our data legally through some methodology. So this paper proposed secure watermarking technique for protecting multimedia content like images using Aadhar number and Discrete Cosine Transform (DCT) technique. In this proposed methodology individual can share the information's with watermarked information which is hidden in shared images and on demand at the time of legal issue originator will show the actuality and its ownership. This paper explained details concepts of the embedding and reverse of embedding (i.e. extracting) process for authentication of the images and its protection from the misuse or fraud. The experimental result of the proposed methodology is shown on different family photos shared on globe and found robust results.

**Keywords:** Discrete Cosine Transform (DCT), Document Based (DB), Working Domain Based (WDB), Human Perception Based (HPB) and Application Based (AB), Discrete Wavelet Transform (DWT), Intellectual Property Right (IPR), Similarity Ratio (SR)

## I. INTRODUCTION

Digital Watermarking is the technique or process to embed or hide the secrete information in multimedia contents in such a way so that it is neither visible to human eyes nor easily detectable to human. It is used to prove the ownership of the multimedia contents through its own Intellectual Property Right (IPR). The Intellectual Property Right shows the meaning of documents in the form of self explanatory (i.e. the word intellect originates from the "intellectus" (i.e. understanding).

The iintellectual means a specific person for giving or suggesting the solution of generic problems like social problem, business related problem, critical thinker for research related problems. The intellectual property is self explained word and meaning is ownership of intangible property like symbols, artistic works, names, software's, images etc used in commerce [19]. The IPR means own rights of the creators / researchers to the developed his new technological creation and to share it with society for the progress others to live with healthy and happiness without any dispute among them. The basic purpose of this concept is to help in the others in terms of technology, economic growth, better improvement in education, betterment of health status physical and mental both etc. It also provides rights of his creation with identity and protection from theft. In the survey of Business Software Alliance, 2018, the use of unauthorized software by people are very high and due to this IT industries are losing every year billions of dollars. As per BSA survey 2018 in 2017 only the amount losses by Asia-Pacific, Western Europe, Northon America, Latin America are \$16.4, \$ 9.5, \$9.5, \$5.0 respectively [10]. This shows every country is losing huge amount of unauthorized use of software's. In similar way many more things are used by persons without authorization and people are losing his/her money, name, fame etc. The digital watermarking and IPR are way to minimize all the unauthorized use of all the things. Digital watermarking techniques are very effective way to embed or hide secret information in the documents like text documents, software's, images, digital audio and digital video signals etc in such a smart way of techniques so that undetectable by any other persons. This concept is used to proof / shows the evidence to the creator for his ownership at the time of legal issues / dispute or when we require to produce as on demand and very useful in various protection and enforcement techniques. The "digital watermark" term is not new and it is in use from more than 700 ago but it was introduced first time in 1992 by Andrew Tirkel and Charles in his paper as a "Electronic Watermark"[13]. Earlier it was used by different countries to indicate the paper brand and the mill name to represent the paper quality and its brand. It was used by very few people but after that it spread over globe to recognize the originality in the different forms like strength of paper, paper format, original sheets size, paper quality etc. It was also used as anti counterfeiting measures on currency of different countries as a feature of security and other paper documents [13].

Revised Manuscript Received on August 12, 2020

\* Correspondence Author

Deepti Varshney\*, Department of Computer Science & Engineering, Shobhit Institute of Eng & Technology (Deemed-to-be-University), Meerut, varshney.deepti1@gmail.com

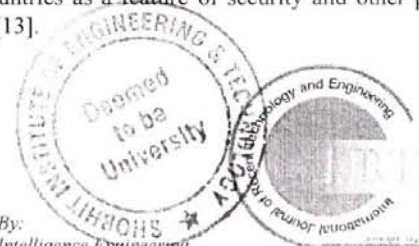
Dr. Mamta Bansal, Department of Computer Science & Engineering, Shobhit Institute of Eng & Technology (Deemed-to-be-University), Meerut, mamta.bansal@shobhituniversity.ac.in

Dr. Birendra Kumar Sharma, Department of MCA, AKG Engineering College, Ghaziabad, bksharma888@yahoo.com

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381

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and Sciences Publication





# Shobhit

Institute of Engineering & Technology  
Deemed to-be-University

EDUCATION EMPOWERS

Shobhit Institute of Engineering & Technology

(A NAAC Accredited Deemed to-be University)

NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To.

Date- 25/01/2024

The Principal/Manager

SUNITA CHAPRANA

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from B.ED II<sup>nd</sup> year to internship (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.

Name- Sonal

Father's name- Dharmveer gite

Roll No.- MRT19UGBED027

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



  
Principal  
Shobhit Institute of Engineering & Technology  
NH-58, Modipuram, Meerut-250110



Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>

## M.Phil/Ph.D lecture, 23rd August 2020

8 messages

Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>  
 To: silsubhoshree@gmail.com  
 Cc: vice chancellor Meerut <vicechancellor@shobhituniversity.ac.in>

Wed, Aug 19, 2020 at 7:33 AM

Greetings of the day,  
 As per your discussion with Dr. Rashmi Nagpal, I have scheduled lecture on 23rd August 2020 at 3:00 PM.

### Lecture Topics:

1. IPR- Advisory on filing and prosecuting a copyright application
2. IPR- Advisory on filing and prosecuting a trademark application

Let me know if you have any query regarding the same.

Thanks and regards,

Dr. Alpana Joshi

Associate Professor & Research Coordinator  
 Department of Agriculture & Agri-Informatics  
 School of Biological Engineering & Sciences  
 Shobhit Deemed University

**Mobile: 9634712358**

**E-mail id:** joshi.alpana@gmail.com

**URL:** www.shobhituniversity.ac.in

Subhoshree Sil <silsubhoshree@gmail.com>  
 To: "Dr. Alpana Joshi" <alpana.joshi@shobhituniversity.ac.in>  
 Cc: vice chancellor Meerut <vicechancellor@shobhituniversity.ac.in>

Wed, Aug 19, 2020 at 4:38 PM

Dear Madam and Sir,

Accept my gratitude for giving me this opportunity. I confirm my attendance for the same.

Warm Regards

On Wed, 19 Aug 2020 at 07:33, Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in> wrote:

Greetings of the day,  
 As per your discussion with Dr. Rashmi Nagpal, I have scheduled lecture on 23rd August 2020 at 3:00 PM.

### Lecture Topics:

1. IPR- Advisory on filing and prosecuting a copyright application
2. IPR- Advisory on filing and prosecuting a trademark application

Let me know if you have any query regarding the same.

Thanks and regards,

Dr. Alpana Joshi

Associate Professor & Research Coordinator  
 Department of Agriculture & Agri-Informatics  
 School of Biological Engineering & Sciences  
 Shobhit Deemed University

**Mobile: 9634712358**

**E-mail id:** joshi.alpana@gmail.com



*Handwritten signature of Dr. Alpana Joshi*

REGISTRAR  
 (Department of Agriculture & Agri-Informatics)  
 NH-58, Meerut-250111

URL: www.shobhituniversity.ac.in

--  
Regards,

Ms. Subhoshree Sil | Advocate

IP Litigation and Advisory,  
D-10, Lower Ground Floor, Nizamuddin East,  
Delhi-110013  
Phn: 8447920821

Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>  
To: Subhoshree Sil <silsubhoshree@gmail.com>  
Cc: vice chancellor Meerut <vicechancellor@shobhituniversity.ac.in>

Thu, Aug 20, 2020 at 11:18 AM

Dear Mam,

Thankyou for confirming from your side. I have scheduled your lecture on 23rd August 2020 at 3:00 PM and can join the class via Google Meet link; <https://meet.google.com/bhn-bmqn-xxg>

Regards

On Wed, Aug 19, 2020 at 4:38 PM Subhoshree Sil <silsubhoshree@gmail.com> wrote:  
Dear Madam and Sir,

Accept my gratitude for giving me this opportunity. I confirm my attendance for the same.

Warm Regards

On Wed, 19 Aug 2020 at 07:33, Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in> wrote:  
Greetings of the day,

As per your discussion with Dr. Rashmi Nagpal, I have scheduled lecture on 23rd August 2020 at 3:00 PM.

**Lecture Topics:**

1. IPR- Advisory on filing and prosecuting a copyright application
2. IPR- Advisory on filing and prosecuting a trademark application

Let me know if you have any query regarding the same.

Thanks and regards,

--  
**Dr. Alpana Joshi**  
Associate Professor & Research Coordinator  
Department of Agriculture & Agri-Informatics  
School of Biological Engineering & Sciences  
Shobhit Deemed University  
**Mobile: 9634712358**  
**E-mail id:** joshi.alpana@gmail.com  
**URL:** www.shobhituniversity.ac.in

--  
Regards,

Ms. Subhoshree Sil | Advocate

IP Litigation and Advisory,  
D-10, Lower Ground Floor, Nizamuddin East,  
Delhi-110013  
Phn: 8447920821

Registrar  
Shobhit University  
(Deemed to be University)  
NH-58, Meerut - 250110





# AADHAR FOUNDATION & SOCIAL WELFARE TRUST

Mob: +91-7302449484  
+91-9084788818

HIG T-100, Pallaypuram Phase II, Modipuram, Meerut UP-250110  
E-mail : aadharfoundation24@gmail.com

Ref No. *ADT/037*

Date *09/07/2021*

## Letter of Appreciation

We are pleased to inform that Dr. Alpana Joshi, Dr. Manisha Rastogi, Dr. Sandeep Kumar and Dr. Saurabh Tyagi along with their students has successfully conducted the "Plantation Drive" along with their Students.

We are highly thankful to them for their supports in successful organization of the event.

Thanking You  
With Regards

Your Sincerely

Dr. Sanjay Kumar Tyagi

*Sanjay*  
Registrar  
Department of Engg. & Tech.  
HIG T-100, Pallaypuram Phase II, Modipuram, Meerut UP-250110



# JANHIT FOUNDATION



मेरठ वाइल्डलाइन मेरठ जनपद में जनहित फाउन्डेशन के माध्यम से संचालित बसहारा / जलकुलमय बच्चों की मदद हेतु एक निशुल्क आपातकालीन सेवा है। इस फोन सेवा का दायर कोई भी बच्चा 1098 नम्बर पर फोन करके ले सकता है। देश के 423 शहरों में संचालित यह सेवा भारत सरकार के महिला एवं बाल विकास मंत्रालय, नई दिल्ली के अधीन कार्य करती है।

यहां 24 घण्टे अवधि में वाइल्डलाइन मेरठ 0 से 18 वर्ष आयु वर्ग के बच्चों के लिए संचालित है। वाइल्डलाइन मेरठ द्वारा पूर्व में भी बच्चों की काउन्सलिंग हेतु आपकी सहायता की गयी रही है एवं वाइल्डलाइन द्वारा आयोजित किये गये विभिन्न कार्यक्रमों में भी आपकी सक्रियता का स्वागत किया गया है। इस दिशा में विभिन्न क्षेत्रों के विशेषज्ञों का एक पैनल तैयार किया जाना है जिससे समाज को विशेषज्ञों के अनुभवों का लाभ इस पैनल के द्वारा संचालित कार्यक्रमों के द्वारा दिया जा सके।

आपसे साअनुरोध निवेदन है कि उपरोक्त पैनल हेतु अपनी सहमति प्रदान करने का कृपया उत्तर दें।

धन्यवाद

भुवदीय  
*Anita Rana*  
अनिता राणा

निदेशिका

वाइल्डलाइन मेरठ / जनहित फाउन्डेशन मेरठ।

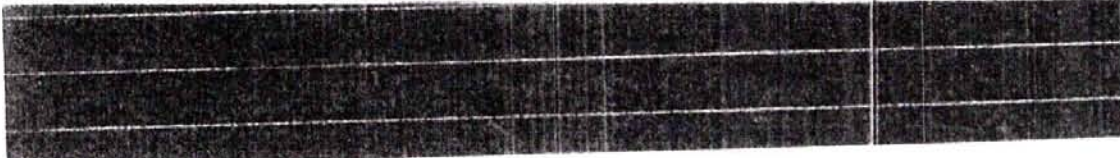
DIRECTOR  
JANHIT FOUNDATION  
D-50, BHASTRINAGAR  
MEERUT (U.P.)

Yans  
Registrar  
Shobhit University  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250114

*gsh*

Shobhit University & Tech  
NH-58, Modipuram, Meerut-250114

14, Ganga Nagar Mawana Road, Meerut (U.P.) Ph. : +91-121-4302021, Mob. : +91-9412706840, +91-8755392502  
mail. : janhitfoundation@gmail.com | Website : www.janhitfoundation.in





# YATHARTH KE SARTHI

## Social Welfare Society

Ref. No. 162.....

Date 25/06/21.....

I Juhi Tyagi hereby informing you that Dr Anita Rathore and Ms. Neha Rani are associated with our organization to regularly organizing the collaborative yoga training and events. Their faculty members of Shrihat University are helping us in the promotion of yoga education from the year of 2016 to till date. We wish a long term collaborations with them.

Tyagi  
25/06/2021

Yan  
Registrar  
Shrihat University, R Tech  
(Deemed to be University)  
NH-58, Meerut, Meerut-250114



9720262626, 7017658459  
yatharthkesarthi@gmail.com





INTERNATIONAL JOURNAL OF  
CONTEMPORARY RESEARCH IN ENGINEERING AND TECHNOLOGY

(Half-yearly Journal of Shobhit University, Meerut)

- Chief Patron** : Dr. Shobhit Kumar, Chairman, Shobhit University, Meerut  
**Patron** : Kunwar Shekhar Vijendra, Chancellor, Shobhit University, Meerut  
**Chief Editor** : Prof. (Dr.) R.P. Agarwal, Academic Advisor and Former V.C., B.U. Jhans  
Dr. H.S. Gour University, Sagar, Shobhit University, Meerut and  
Prof. & Dean, IITR, Roorkee  
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*Note: Opinion expressed in the articles, published in the Journal does not necessarily represent the views of the Shobhit University, Meerut, or the Editor. Any material published in the journal may not be reproduced or reprinted, in any form, without the prior permission from the Editor.*

Printed at Indraprastha Press (CBT), New Delhi-110002

*Yours*  
Registrar  
Shobhit University of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut-250118





# Dr. Garg's

## Multispeciality Dental Clinic and Orthodontic Centre

**Dr. Anshul Garg**  
B.D.S, M.D.S.  
Dental Surgeon  
Consultant Periodontist & Implantologist

**Dr. Ankit Garg**  
B.D.S, M.D.S.  
Consultant Orthodontist

Ref. No.....

Date.....

### Facilities Available :

- ◆ **Implant**  
हड्डी में पेंच द्वारा Fix दांत लगाना
- ◆ **Orthodontic Treatment**  
Esthetic Brackets  
Lingual Brackets  
टेढ़े-मेढ़े दांत ठीक करना
- ◆ **Oral Prophylaxis**  
मशीन द्वारा दांतों की सफाई
- ◆ **Gum Treatment**  
मसूड़ों में पायरिया का इलाज
- ◆ **Splinting**  
हिले हुए दांतों को रोकना
- ◆ **R.C.T**  
दांतों की नसों का इलाज  
एक बार में नसों का इलाज
- ◆ **Cosmetic & Bleaching**  
दांतों को सफेद एवं सुन्दर बनाना
- ◆ **Tooth Coloured Filling**  
दांतों में दांत के रंग का मसाला भरना
- ◆ **Denture & Bridge**  
जबड़ा बनाना एवं खाली  
जगह पर Fix दांत लगाना
- ◆ **Tooth Extraction**  
दांत निकालना
- ◆ **Impaction**  
अक्कल जाड़ की सर्जरी
- ◆ **Jaw Fractures**  
जबड़ों के फ्रैक्चर का इलाज
- ◆ **Digital X-ray (RVG)**  
डिजिटल एक्स-रे
- ◆ **Tooth Jewellery**  
दांतों में डायमंड लगाना

Pt. Name :

Age /Sex :

Rx

Ref. No.:

Dated: June 25, 2021

### SANCTION ORDER

1. Dr. Deepika Arora, School of Biological Engineering and Life Sciences, Shobhit Institute of Engineering and Technology, (Deemed to-be-University), Meerut-250110
2. Dr. Aniket Kumar, department of Biomedical Engineering, Shobhit Institute of Engineering and Technology, (Deemed to-be-University), Meerut-250110
3. Dr. Jayant Mahato, School of Engineering & Technology, Shobhit Institute of Engineering and Technology, (Deemed to-be-University), Meerut-250110

**Subject:** Sanction of grant from **Dr. Garg's Multi-speciality Dental Clinic and Orthodontics Centre, Meerut** for Comparative analysis of biomaterials used for orthodontic implants.

Dear Sir

1. The undersigned is directed to convey the approval of sanction grant from **Dr. Garg's Multi-speciality Dental Clinic, Meerut** for Comparative analysis of biomaterials used for orthodontic implants for one year.

2. The scope of work, the estimated cost of the project and amount of grant sanctioned from **Dr. Garg's Multi-speciality Dental Clinic, Meerut** is given below:

S. No.	Scope of work	Cost proposed by Entity	Cost Estimate Sanctioned for Grant	Amount of Grant Sanctioned
1.	Comparative analysis of biomaterials	Rs. 7,50,000/-	Rs. 5,00,000/-	Rs. 5,00,000/-

3. You are also requested to share the account details signed by Registrar office to release the grant.

Signature of Authority

*Anshul Garg*

1. Copy to: The Registrar, Shobhit Institute of Engineering and Technology, (Deemed to-be-University), Meerut-250110
2. Accounts File - for CA

**TIMINGS :** Morning : 10.30 a.m. to 2.00 p.m.  
Evening : 3.00 p.m. to 8.00 p.m.

NOT FOR MEDICO LEGAL PURPOSE

First Floor F-6, Nirbhaya Arcade, Next to R.G. P.G. College,  
Western Kutchery Road, Meerut (U.P.) 250001  
Contact No. : 9410605190, 8755313139, 9410620887, 8630984741

Registrar  
Shobhit Institute of Engineering and Technology  
(Deemed to be University)  
NH-58, Meerut-250110



# Dr. Garg's

## Multispeciality Dental Clinic and Orthodontic Centre

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B.D.S, M.D.S.

Dental Surgeon

Consultant Periodontist & Implantologist

**Dr. Ankit Garg**

B.D.S, M.D.S

Consultant Orthodontist

Ref. No.....

Date.....

### Facilities Available :

- ◆ **Implant**  
हड्डी में पेंच द्वारा Fix दांत लगाना
- ◆ **Orthodontic Treatment**  
Esthetic Brackets  
Lingual Brackets  
टेढ़े-मेढ़े दांत ठीक करना
- ◆ **Oral Prophylaxis**  
मशीन द्वारा दांतों की सफाई
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मसूड़ों में पायरिया का इलाज
- ◆ **Splinting**  
हिले हुए दांतों को रोकना
- ◆ **R.C.T**  
दांतों की नसों का इलाज  
एक बार में नसों का इलाज
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जगह पर Fix दांत लगाना
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अक्कल जाड़ की सर्जरी
- ◆ **Jaw Fractures**  
जबड़ों के फ्रैक्चर का इलाज
- ◆ **Digital X-ray (RVG)**  
डिजिटल एक्स-रे
- ◆ **Tooth Jewellery**  
दांतों में डायमंड लगाना

Pt. Name :

Age /Sex :

Ref. No.:

Dated: November 15, 2021

Rx

### Release of Research Grant

The Registrar  
Shobhit Institute of Engineering & Technology  
(Deemed to-be-University), Meerut-250110

**Subject: Release of 1<sup>st</sup> Instalment of Research Grant**

Dear Sir,

With reference to our earlier sanction letter dated June 25, 2021 and the acceptance of the work by the faculties of your University, the undersigned is directed to convey the approval of sanction grant from Dr. Garg's Multi-speciality Dental Clinic, Meerut for Comparative analysis of biomaterials used for orthodontic implants.

2. The distribution of instalment of releasing the fund is given below:

S. No.	Total Research Grant	1 <sup>st</sup> Instalment	2 <sup>nd</sup> Instalment	3 <sup>rd</sup> Instalment
1.	Rs. 5,00,000/-	Rs. 1,50,000/-	Rs. 2,00,000/-	Rs. 1,50,000/-

Note: The grant should be utilized within the sanctioned budget head as given at the time of project submission.

Signature of Authority

*Anshul Garg*

Registrar  
Shobhit Institute of Engineering & Technology  
(Deemed to-be-University), Meerut-250110

**TIMINGS :** Morning : 10.30 a.m. to 2.00 p.m.  
Evening : 3.00 p.m. to 8.00 p.m.

NOT FOR MEDICO LEGAL PURPOSE

First Floor F-6, Nirbhaya Arcade, Next to R.G. P.G. College,  
Western Kutchery Road, Meerut (U.P.) 250001  
Contact No. : 9410605190, 8755313139, 9410620887, 8630984741

जय जवान

राजकुमार सिंह

प्रधान

ग्राम संचायक कालनी

तह. मरधना, जिल्हा पंजळ

जय किसान

विठ्ठल परमपूर इंदूर

वा. 9769423395

9068890210

दिनांक 08/12/2020

### सराहना पुरस्कार

मुझे इस निष्पत्ति से बतते हुए हांडी लुशी हो रही है कि शोकांत डाटेरथर लॉफ इंजीनियरिंग एंड टेक्नोलॉजी (डीमड प्रोविडेंसिटी) के डा. दिनेश कुमार और डॉ. अल्पना जोशी ने ग्राम कोल-डी, तहसील मरधना (गैर) के किसानों के संस्कारी योजनाओं और नीतियों से अलग-अलग कराया और बताया कि कैसे अधिकतम लाभ उठाया जा सकता है।



*[Handwritten signature]*



अवधीय  
ग्राम प्रधान

*[Handwritten signature]*  
Registrar  
Shaheed Institute of Engineering & Tech  
Jabalpur  
Dist. Jabalpur  
M.P. - 481001  
Phone: 250118



**STEM RESEARCH SOCIETY**

Science Technology Engineering Management



Ref.: STEM-EXT\_Award/2021/WS01

Dated: 9<sup>th</sup> November 2021

## **STEM – RS Extension Activity Award**

This award conferred to

*[Faint handwritten name]*

*[Faint handwritten address]*

*in recognition of Organizing  
**Wellbeing Summit***

under

National Health Mission



*[Handwritten signature]*  
STEM Research Society  
K. J. Somaiya Institute of Tech  
(Deemed to be Univ.)  
NH-58  
250110



*[Handwritten signature]*

6, Pawan Dham Saharanpur, Dist.: Saharanpur. PIN: 241 341, Uttar Pradesh, INDIA

+91-9456086759



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## Certificate

*This is to certify that*

**Dr. Jayanta Kumar Mahato**

*is recognized as Reviewer for the following  
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Agriculture chemistry



  
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drjyotisharma24@gmail.com

### Reviewer Id - REV-5096



Welcome Jyoti Sharma

**Welcome:** Prof. Jyoti Sharma

**Date of membership:**

**Area of interest:** Agriculture chemistry

**phone No.:** 9412833952

**Department:** Agriculture chemistry

**journals:** Indian Journal of Agricultural Research

**Description:**

**ReviewerId:** REV-5096

**Address:** Shobhit university (Deemed to be University) Meerut

**Email:** drjyotisharma24@gmail.com

**Designation:** Professor

**Institute Affiliated With:** Shobhit university (Deemed to be University) Meerut

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Article Id	Review Status	Review Date	Review
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 Registrar  
 Shobhit University (Deemed to be University) & Tech  
 (Deemed to be University) Meerut  
 NH-53, Meerut - 250116  
 Phone: 9412833952



Ref - SC/EA/0205

### Letter of Appreciation

We are pleased to inform that Dr. Saurabh Tyagi, Dr. Sudheesh Shukla and Dr. Sandeep Kumar along with their students has successfully explained the "Discussion on the Identification of Useful Plant Materials for Cosmetic product development to the Housewives" and their uses in the management of the disease at Village Daurala, District Meerut, State Uttar Pradesh, India.

We are highly thankful to them for their supports in successful organization of the event.

Thanking You

With Regards

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1/10/2020

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तः सरधना (मेरठ) उ.प्र.

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धर्मपत्नी श्री विपिन लालियान

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ग्राम- छुर निकट गांव गांधी

सरधना, मेरठ

दिनांक: 07/11/2020

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मैं बेटे द खुशी के साथ ये बातमा  
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डीएड यूनिवर्सिटी की डॉ. मनीषा रस्तोगी  
और डॉ. शिवा शर्मा ने ग्राम छुर  
तहसील सरधना, मेरठ उन्फुं के  
किरानों को डेगुं एवं चिकनगुमिया  
के लक्षण एवं बचाव के तरीकों  
से जावगत कराया।

भवदीय

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*Award*  
*for*  
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We are pleased to confer the award for active participation of Dr. Manisha Ratogi and Dr. Shiva Sharma from Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Uttar Pradesh in collaborative extension activity Awareness programme on Processing of Medicinal Plant Material to the Homemakers held on February 21, 2021 at Village Maithana Inder Singh, Block Daurala, Distt. Meerut, Uttar Pradesh

Director

Address: Sanclum Life Science Pvt. Ltd. c/o. Mr. Swadesh Kumar Das  
Kharipukuriya, P.O.- Nachinda, Midnapore, West Bengal - 721444, India  
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**Reference:** JHRM

**Date:** September 29, 2021

The certificate is awarded to

**Neha Vashistha**, NICE School of Business Studies, Shobhit Institute of  
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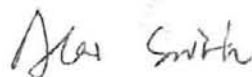
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**Date: 03.07.2021**

To

Dr Neha Vashistha

Assistant Professor

Dept. of General Management, HRM, OB

Shobhit Institute Of Engineering & Technology (Deemed To Be University)

E-20, European Estate Colony, Kanker Khera

Mob: +918755087739

Email ID: nehavashistha@shobhituniversity.ac.in


**Sub: Reviewer appointment letter.**

Dear Dr Dr Neha Vashistha,

It is indeed a pleasure to announce your appointment as Reviewer in reviewer board of "**Journal of Management Research and Analysis**". By accepting the appointment your name will appear as reviewer on the website for buffering period [www.ipinnovative.com](http://www.ipinnovative.com) and under "Reviewer Board" in website link of the journal. The appointment is initially for two years commencing on 1st March 2021. Your term may be renewed consecutively for two more years if you, Editor-in-chief, Editorial board and IP Innovative Publication agree upon this.

As a Reviewer, you will be expected to:

- Providing written, unbiased feedback in a timely manner on the scholarly merits and the scientific value of the work, together with the documented basis for the reviewer's opinion.
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- Complying with the editor's written instructions on the journal's expectations for the scope, content, and quality of the review.
- Providing a thoughtful, fair, constructive, and informative critique of the submitted work, which may include supplementary material provided to the journal by the author.
- Determining scientific merit, originality, and scope of the work; indicating ways to improve it; and recommending acceptance or rejection using whatever rating scale the editor deems most useful.

Your benefits as Reviewer of "**Journal of Management Research and Analysis**":

- Reviewer certificate in end of year.
- Establish your expertise in the field and expand your knowledge.
- You will be aware of the latest methods and trends in your area of expertise. You can improve your editing and writing skills, master new styles of writing.
- Peer reviewed journal articles are the major deliverables of scientific research, and they are necessary to progress in one's career and demonstrate that your future research is worth funding.
- Complying with the editor's written instructions on the journal's expectations for the scope, content, and quality of the review.
- Providing a thoughtful, fair, constructive, and informative critique of the submitted work, which may include supplementary material provided to the journal by the author.
- Determining scientific merit, originality, and scope of the work; indicating ways to improve it; and recommending acceptance or rejection using whatever rating scale the editor deems most useful.

We hope you accept the appointment subject to the above terms, you're welcome to sign one copy of this letter and return the scanned version via email to us before 18th July 2021. Thank you for your support! We look forward for good association.

Please accept our Congratulations.

With regards,  
Yours faithfully,



[Anshu Chauhan]  
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Athens, 22 September 2021

**To Whom It May Concern**

This is to certify that **Dr. Neha Yajurvedi, Associate Professor, School of Business Studies, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, India,** served on the Reviewers' Board of Athens Journal of Business & Economics.

The Athens Institute for Education and Research would like to express its gratitude and appreciation for the contribution made by **Dr. Neha Yajurvedi** to the reviewing process of the Athens Journal of Business & Economics.

For your information, the Athens Institute for Education and Research was established in 1995 as an independent world association of Academics and Researchers. Its mission is to act as a forum, where scientists from all over the world can meet and exchange ideas on their research, and discuss future developments in their disciplines. Membership at present stands at approximately 2500 from 116 countries.

Sincerely yours,

Dr Gregory T. Papanikos  
President



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**Invitation for Membership of Editorial Advisory Board- NICE Journal of Business**

---

NICE Journal <editornjb@gmail.com>  
To: Dr Garima Gupta <garimagupta@fms.edu>  
Cc: DPS Verma <dpsverma@hotmail.com>

Sat, Sep 11, 2021 at 4:12 PM

Dear Prof. Garima,

We invite you to the Editorial Advisory Board of our journal, *NICE Journal of Business*, which is a half-yearly research journal in the field of business and management, published by Shobhit Deemed University, Meerut. As a member of the board, you are expected to help us in the evaluation and selection of the articles for publication.

An electronic copy of the last issue of the journal, Vol. 14, is attached for your ready reference.

I hope you will give your consent for the purpose.

A line in confirmation will be appreciated.


With best wishes,

--


**Prof. D.P.S. Verma**

**Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110  
Mobile no.09818134500**

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## Invitation for Membership of Editorial Advisory Board- NICE Journal of Business

5 messages

NICE Journal <editornjb@gmail.com>

Mon, Jul 19, 2021 at 6:43 PM

To: "Dr. Ramesh Chandra Dangwal" <rameshdangwal@hotmail.com>

Cc: DPS Verma <dpsverma@hotmail.com>

Dear Prof. R. C. Dangwal,

Greetings of the Day!

As you know that the *NICE Journal of Business* is a half-yearly, peer-reviewed journal in the field of Business Management. It publishes quality articles authored by eminent experts. You have been associated with us as a member of the Editorial Advisory Board for quite some time.

We wish to continue you to be a member of the Board for the next issue. I hope you will give your consent for the purpose.

Members of the Editorial Advisory Board are expected to help the journal in the selection, evaluation, and improvement of the articles.

The Consent may be sent at an early date.

With warm regards,

--

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110  
Mobile no.09818134500

Dr. Neha Yajurvedi

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110

Mobile no. 9454838216  
8650111287

Dr. Ramesh Chandra Dangwal <rameshdangwal@hotmail.com>

Mon, Jul 19, 2021 at 7:21 PM

To: NICE Journal <editornjb@gmail.com>

Cc: Verma Dps <dpsverma@hotmail.com>

Dear Sir,

Thank you so much for your mail regarding the Invitation for Membership of Editorial Advisory Board- NICE Journal of Business . I feel honoured to be the part of NICE Journal of Business and sending my consent for the same. I feel happy to render my services as and when required.

Regards

Prof RC Dangwal

  
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(Deemed to be University)  
NH-50, Modipuram, Meerut-250110, U.P.



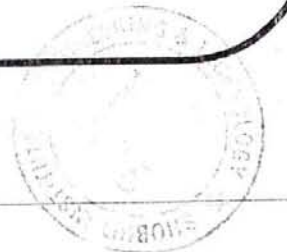
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## Article for Review

---

NICE Journal <editornjb@gmail.com>  
To: Ruchi Gupta <ruchigupta.sbsc@gmail.com>

Mon, Aug 16, 2021 at 10:51 AM

Dear Dr. Ruchi Gupta,

Thank you for agreeing to review an article, titled "**INFLUENCE OF CONSUMER SATISFACTION ON PURCHASE INTENTION: A Study of Selected FMCG Products**" is received for publication in the *NICE Journal of Business*.

I shall be extremely grateful if you review the article and send your report on the proforma attached within 2-3 days.

With regards,

--



**Dr. Neha Yajurvedi**

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110


Mobile no. 9454838216  
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(Dept. of Management Studies)  
NH-30, Delhi

Dept. of Management Studies  
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(Dept. of Management Studies)  
Delhi-110029 (Phone: 250111)





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---

NICE Journal <editornjb@gmail.com>  
To: Surender Munjal <munjalsurender@gmail.com>  
Cc: DPS Verma <dpsverma@hotmail.com>

Mon, Jul 19, 2021 at 6:44 PM

Dear Prof.Surendra Munjal,

Greetings of the Day!

As you know that the *NICE Journal of Business* is a half-yearly, peer-reviewed journal in the field of Business Management. It publishes quality articles authored by eminent experts. You have been associated with us as a member of the Editorial Advisory Board for quite some time.

We wish to continue you to be a member of the Board for the next issue. I hope you will give your consent for the purpose.

Members of the Editorial Advisory Board are expected to help the journal in the selection, evaluation, and improvement of the articles.

The Consent may be sent at an early date.

With warm regards,

--

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
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Modipuram, Meerut - 250 110  
Mobile no.09818134500

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## Invitation for Membership of Editorial Advisory Board- NICE Journal of Business

---

**Surender Munjal** <munjalsurender@gmail.com>  
To: NICE Journal <editornjb@gmail.com>

Thu, Jul 22, 2021 at 4:54 AM

Dear Sir

Thank you for your email.

I am more than happy to serve on the editorial advisory board of NICE Journal of Business.

Best wishes  
Surender

[Quoted text hidden]



  
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## Article for Review

---

NICE Journal <editornjb@gmail.com>  
To: furqan qamar <qamar.pc@gmail.com>

Tue, May 25, 2021 at 5:27 PM

Dear Prof. Furqan Qamar,

Thank you for agreeing to review the article titled, "**Does Foreign Portfolio Investment Increase Stock Market Volatility? - Recent Evidence from India.**" received for publication in *NICE Journal of Business*. I shall be extremely grateful, if you review the article and send your report on the proforma attached at the earliest, preferably within two weeks.

With Best Wishes and Regards,

--

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110



Mobile no.09818134500

Dr. Neha Yajurvedi

Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110  
Mobile no. 9454838216  
7617505013

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### 2 attachments

-  Reviewer's format (4) (1).docx  
12K
-  Do PPPs deliver better outcomes.docx  
451K



  
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2 messages

NICE Journal <editornjb@gmail.com>

Mon, Jul 19, 2021 at 6:41 PM

To: Harish purohit <hcpurohit\_mbe@rediffmail.com>, hcpurohit24@gmail.com

Cc: DPS Verma <dpsverma@hotmail.com>

Dear Prof. H. C. Purohit,

Greetings of the Day!

As you know that the *NICE Journal of Business* is a half-yearly, peer-reviewed journal in the field of Business Management. It publishes quality articles authored by eminent experts. You have been associated with us as a member of the Editorial Advisory Board for quite some time.

We wish to continue you to be a member of the Board for the next issue. I hope you will give your consent for the purpose.

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Modipuram, Meerut-250110

Mobile no. 9454838216  
8650111287

Prof HC Purohit <hcpurohit24@gmail.com>

Tue, Jul 20, 2021 at 10:04 AM

To: NICE Journal <editornjb@gmail.com>

Thank you very much for your email for continuing to be a member of the editorial board esteemed research journal of *NICE Journal of Business*. I accept the offer and thanks for associating me with your team of legendary researchers of commerce and management fraternity.

Thanks & Regards

**Dr H C PUROHIT**, FICA

Professor & Head

School of Management

Doon University, Dehradun 248001, Uttarakhand- INDIA

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**Article for Review**

2 messages

NICE Journal <editornjb@gmail.com>

Sat, Jul 24, 2021 at 9:47 AM

To: Hardeep Chahal <drhardeepchahal@gmail.com>, Hardeep Chahal <chahalhardeep@rediffmail.com>, hardip chahal <hardipchahal@yahoo.com>

Cc: DPS Verma <dpsverma@hotmail.com>

Dear Prof Hardeep Chahal,

Greetings of the Day!

We have received an article, titled **CONSUMERS' PURCHASE INTENTION FOR ORGANIC FOOD AND ENVIRONMENTAL CONCERN: The Mediating Role of Consumer Attitudes**, for publication in *NICE Journal of Business*.

I shall be extremely grateful if you review the article and send your report on the proforma attached within 4-5 days.

With warm regards,

--

Prof. D.P.S. Verma

Editor, NICE Journal of Business  
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Modipuram, Meerut - 250 110  
Mobile no.09818134500


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**2 attachments**

 **Consumers' Purchase Intention for Organic Food and Environmental Concern.docx**  
96K

 **Reviewer's format.docx**  
12K

Hardeep Chahal <drhardeepchahal@gmail.com>  
To: NICE Journal <editornjb@gmail.com>

Fri, Jul 30, 2021 at 10:52 AM

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(Deemed to be University)  
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**Article for Review**

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**Hardeep Chahal** <drhardeepchahal@gmail.com>  
To: NICE Journal <editornjb@gmail.com>

Fri, Jul 30, 2021 at 10:52 AM

Dear Sir

Kindly find attached herewith the comments on the reviewed paper.

Thanks and Regards

[Quoted text hidden]


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Dr Hardeep Chahal  
Professor  
Department of Commerce  
University of Jammu  
Jammu- 180006

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 **Consumers Purchase Intentions for Organic Food.docx**  
16K



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4 messages

**NICE Journal** <editornjb@gmail.com>  
To: Ramji Sharma <ramjirdsharma@rediffmail.com>  
Cc: DPS Verma <dpsverma@hotmail.com>

Mon, Jul 19, 2021 at 6:43 PM

Dear Prof. R. D. Sharma

Greetings of the Day!

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With warm regards,

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**Prof. D.P.S. Verma**

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**Mobile no. 9454838216  
8650111287**

**R D Sharma** <ramjirdsharma@rediffmail.com>  
To: "editornjb@gmail.com" <editornjb@gmail.com>

Tue, Jul 20, 2021 at 5:08 AM

Very good morning Prof Verma ji. I feel privileged to remained associated as proposed.

Regards  
R D Sharma

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NICE Journal <editornjb@gmail.com>  
To: Ramesh Chander <dalal.kuk@gmail.com>  
Cc: DPS Verma <dpsverma@hotmail.com>

Mon, Jul 19, 2021 at 6:56 PM

Dear Prof. Ramesh Chander,

Greetings of the Day!

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**Ramesh Chander** <dalal.kuk@gmail.com>  
To: NICE Journal <editornjb@gmail.com>

Mon, Jul 19, 2021 at 7:01 PM

It's an honor Sir to be there in your mentorship.

Regards

[Quoted text hidden]



Shri. Ramesh Chander, Director & Tech  
NICE Journal of Business, Noida, India  
Phone: +91-11-25011111

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5 messages

**NICE Journal** <editornjb@gmail.com>  
To: "Mishra, Sanjay" <smishra@ku.edu>  
Cc: DPS Verma <dpsverma@hotmail.com>

Mon, Jul 19, 2021 at 6:44 PM

Dear Prof.Sanjay Mishra,

Greetings of the Day!

As you know that the *NICE Journal of Business* is a half-yearly, peer-reviewed journal in the field of Business Management. It publishes quality articles authored by eminent experts. You have been associated with us as a member of the Editorial Advisory Board for quite some time.

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Associate Editor  
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Modipuram, Meerut-250110

Mobile no. 9454838216  
8650111287

**Mishra, Sanjay** <smishra@ku.edu>  
To: NICE Journal <editornjb@gmail.com>, "Mishra, Sanjay" <smishra@ku.edu>  
Cc: DPS Verma <dpsverma@hotmail.com>

Mon, Jul 19, 2021 at 7:15 PM

I am happy to continue on the Editorial board.

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**Article for Review**

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**NICE Journal** <editornjb@gmail.com>

Wed, Jun 9, 2021 at 6:54 PM

To: sunilk4gupta@yahoo.co.in

Cc: DPS Verma &lt;dpsverma@hotmail.com&gt;

Dear Prof. Sunil Gupta,


Thank you for agreeing to review the article titled, "MICROFINANCE AND WOMEN ECONOMIC EMPOWERMENT: CASE OF RURAL HARYANA", received for publication in *NICE Journal of Business*. I shall be extremely grateful, if you review the article and send your report on the proforma attached by Saturday, 12-06-2021.

With Best Wishes and Regards,

--

**Prof. D.P.S. Verma****Editor, NICE Journal of Business  
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**2 attachments** **Micro Finance and Women Economic Empowerment.docx**  
392K **Reviewer's format (6).docx**  
12K

  
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NICE Journal <editornjb@gmail.com>

Tue, Aug 17, 2021 at 11:01 AM

To: drvksingh@gkv.ac.in

Cc: DPS Verma <dpsverma@hotmail.com>

Dear Prof. V.K. Singh,

Thank you for agreeing to write a Book Review for publication in the NICE Journal of Business. I am enclosing the Guidelines for Book Reviewers, which you may like to go through.

With best wishes,

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**Prof. D.P.S. Verma**


Editor, NICE Journal of Business  
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Modipuram, Meerut - 250 110  
Mobile no.09818134500

**Dr. Neha Yajurvedi**


Associate Editor  
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(Deputy Registrar)  
NH-53, Sonapat-250110

## Invitation for Membership of Editorial Advisory Board- NICE Journal of Business

4 messages

**NICE Journal** <editornjb@gmail.com>  
To: Rajan Yadav <rajan.yadav.dsm@gmail.com>  
Cc: DPS Verma <dpsverma@hotmail.com>

Mon, Jul 19, 2021 at 6:42 PM

Dear Prof.Rajan Yadav,

Greetings of the Day!

As you know that the *NICE Journal of Business* is a half-yearly, peer-reviewed journal in the field of Business Management. It publishes quality articles authored by eminent experts. You have been associated with us as a member of the Editorial Advisory Board for quite some time.

We wish to continue you to be a member of the Board for the next issue. I hope you will give your consent for the purpose.

Members of the Editorial Advisory Board are expected to help the journal in the selection, evaluation, and improvement of the articles.

The Consent may be sent at an early date.

With warm regards,

--

**Prof. D.P.S. Verma**

**Editor, NICE Journal of Business  
Shobhit University  
Modipuram, Meerut - 250 110  
Mobile no.09818134500**

**Dr. Neha Yajurvedi**

**Associate Editor  
NICE Journal of Business  
Shobhit University  
Modipuram, Meerut-250110**

**Mobile no. 9454838216  
8650111287**

**Rajan Yadav** <rajan.yadav.dsm@gmail.com>  
To: NICE Journal <editornjb@gmail.com>

Mon, Jul 19, 2021 at 7:42 PM


Dear Sir,

It is my privilege and honour to continue my association with the journal.

Best Regards

Prof. Rajan Yadav

[Quoted text hidden]

  
Registrar  
Shobhit University  
(Deemed to be University) Modipuram, Meerut-250110  
& Tech  
NH-28, Modipuram, Meerut-250110

**NICE Journal** <editornjb@gmail.com>

Mon, Jul 19, 2021 at 7:47 PM

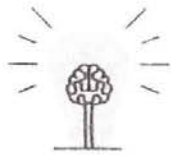
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*Handwritten signature*

& Tech

ut-250118



2.09.2021

To,

**Shobhit Institute of Engineering & Technology(Deemed-to-be-University),  
Meerut,  
Uttar Pradesh.**

Dear Ma'am,

Hope you are doing well.

We are extremely pleased and delighted to announce that NextgenInnov8 in association with World Record Organization is aiming at the World Record of "**Assembling the Maximum Number of UVC SURAKASHA KIT in a Single Day**".

We humbly request you to participate in this noble cause and become the World record partner of NextGenInnov8, help society to fight these testing Covid times. This is not just a World Record Attempt; it is our philanthropic way of letting everyone know that "We Care for Everyone" and "**We Are in This Together**".

**As a partner institution:**

- 1) Buy a minimum 25 boxes for your College / Company before September 30th Sept, 2021.
- 2) We will put your logo, along with the World Record logo on our partner landing page.
- 3) As a partner your College / Company will get a world record partner certificate & all participated students /faculty/staff will get a world record participation certificate along with a CSR certificate from NEXTGENINNOV8.

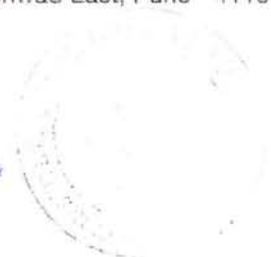
**About the Event:**

- Every participant of the event will be provided with basic materials to assemble the DIY Suraksha Kit.
- The materials will consist of MDF material, aluminum Foil, UVC Light, Wire, Plug and mesh etc. These materials will be couriered at your given address.
- On 2nd Oct 2021, a webinar will be conducted to showcase how to assemble a DIY Suraksha Kit.
- Based on the instructions, you will be required to assemble and upload photographs of your Suraksha Kit, on a link that will be shared on your mail-id.
- The box can protect your environment/ office/college, also it can protect yourself and your loved ones. You can also donate the box to a needy, frontline workers and underprivileged people around your campus to make your campus more safe and secure.

**Nextg**

CTS 4698, PL 11 S129, Sweet Home Bungalow, Mahavir Park, Mohan Nagar, Chinchwad East, Pune - 411019  
Email: Info@nextgeninnov8.com

*[Handwritten Signature]*  
Registrar  
Shobhit Institute of Engg & Tech  
Noida  
201307-250110







### What is Suraksha Kit:

Suraksha Kit is a UVC light sterilization box invented by Pune based 15 years old boy Aditya Pachpande. He is young innovator and social entrepreneur. The Suraksha box can be used to sanitize vegetables, newspapers, dairy products, wallets, newspapers, stationery items, cheques, keys etc. The kit is a shield of protection for any type of germs, bacteria, and viruses including all strains of COVID. The box has a mesh on which the items will be put and sterilize by using UVC light in a controlled environment for 360-degree sterilization. The Suraksha Box has a Government of India (MC&I) patent published and is tested, approved, and certified by CSIR-CMERI (ICMR Approved lab) of Govt. of India.

**Cost of Participation:** The registration fees for participating is INR 2000, which includes material cost, GST and transportation charges as well, **total amounting to INR 50000 for 25 boxes.**

**Payment Details: Account Name : Nextgeninnov8 Global Solutions Pvt Ltd.  
Account No. 38600200000315, IFSC Code: BARB0AUNDHX, Branch: Aundh Branch**

We are looking forward to your official confirmation, so as to proceed with adding your logo across.

Looking forward to the tremendous synergies this partnership can bring.

Thanks & with best regards,

**Dr. Sandeep Pachpande**  
Co-Founder NextGenInnov8  
Chairman, ASM Group of Institutes

**Mr. Aditya Pachpande**  
Co-Founder NextGenInnov8

**for any further query**  
9130098212 / 9821914843 / 9922991756

  
Sandeep Pachpande  
(Director)  
NH-53, ... & Tech  
... 250114



**Nextgeninnov8 Global Solutions Private Limited**

CTS 4698, PL 11 S129, Sweet Home Bungalow, Mahavir Park, Mohan Nagar, Chinchwad East, Pune - 411019  
Email: Info@nextgeninnov8.com



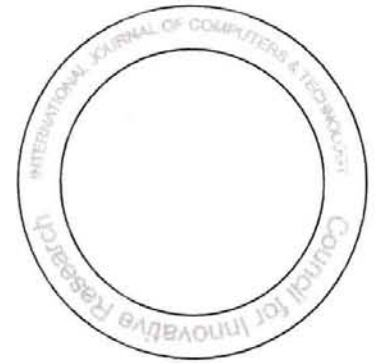
**Certificate of Reviewer**

Council For Innovative Research certifies that

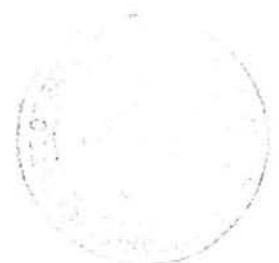
Dr. Niraj Singhal  
sonia\_niraj@yahoo.com

*as Reviewer of International Journal of Computers & Technology.*

--  
Editor  
International Journal Of Computers & Technology  
Council for Innovative Research  
[ijct@cirworld.com](mailto:ijct@cirworld.com)  
<http://cirworld.org/journals/index.php/ijct>



*[Handwritten Signature]*  
Secretary  
International Journal of Computers & Tech  
(Department of Computer Science)  
NH-50, Durgam Chauraha, Meerut-250110



The Science and Information (SAI) Organization Ltd  
19 Bolling Road, Bradford,  
BD4 7BG,  
West Yorkshire,  
United Kingdom



08 October 2020

To whom it may concern,

This letter is to confirm that Niraj Singhal, has contributed to International Journal of Advanced Computer Science and Applications (IJACSA) as a Reviewer.

We thank Niraj Singhal for thorough and timely review of the following manuscript,

Year 2018

1. BigAnalytic: Large-Scale Data Management and Analysis Framework
2. Content based Two Threshold Two Divisor Algorithm with Multi-Level Hashing Technique to Enhanced Data Deduplication
3. Parallelized Sequential Regression Multiple Imputation for High Dimensional Multivariate Data in Cloud Environment

Year 2019

1. A Survey: Agent-Based Software Technology under the Eyes of Cyber Security, Security Controls, Attacks, and Challenges

Year 2020

1. Deep SMS Spam Detection using H2O Platform

We also appreciate the effort and expertise that Niraj Singhal contributed to ensure the quality of publication.

If there are queries please do not hesitate to contact us by email at [editorijacsa@thesai.org](mailto:editorijacsa@thesai.org).

Yours Sincerely,

Kohei Arai  
Editor-in-Chief  
International Journal of Advanced Computer Science and Applications (IJACSA)  
The Science and Information (SAI) Organization Limited  
Email: [editorijacsa@thesai.org](mailto:editorijacsa@thesai.org)  
Website: [www.ijacsa.thesai.org](http://www.ijacsa.thesai.org)

Registrar  
Shobhit Institute of Technology  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250118



# SARASWATI SHIKSHA NIKETAN



INTER COLLEGE

KRISHNA NAGAR, BAGU, GHAZIABAD

This is to certify that Dr. Paul Sharma of Shobhit Institute of Engineering and Technology (Deemed-to-be-University) has collaborated with us. The collaboration was focused on enhancing teaching skills and learning practice of B.ed students. This collaboration provided benefit to us as well as to B.ed students. We wish Dr. Paul Sharma

*PS*  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-65, Bagu, Ghaziabad

Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-65, Bagu, Ghaziabad  
Ph: 0120-2501111



*Paul*  
16/6/21

Principal

Principal



# CERTIFICATE OF ORGANIZING



## 3<sup>RD</sup> INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MULTI-DISCIPLINARY RESEARCH (ICRTMDR-2020)

26<sup>TH</sup> & 27<sup>TH</sup> DECEMBER 2020 | MALDIVES



The Organizing Committee Congratulates

Shobhit Deemed University, Meerut, Uttar Pradesh, India

**Dr. Preeti Garg**

has done *[Signature]* of

excellence in Organizing the "3<sup>rd</sup> International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR-2020)"

Organized by Institute For Engineering Research and Publication on 26<sup>th</sup> - 27<sup>th</sup> December 2020 at Maldives.

*[Signature]*

**Dr. Andres C. Pagatpatan**  
Professor & Campus Administrator  
Eastern Samar State University - Cutaan Campus  
Philippines

*[Signature]*

**Prof. Jake R. Pomperada, MAED, MT, MIT**  
Science Research Specialist II  
Technological University of the Philippines Visayas  
City of Talisay, Negros Occidental Philippines

*[Signature]*

**Dr. V. Shyamala Susan**  
Assistant Professor & Head  
Department of Computer Science  
A.P.C Mahalaxmi College For Women  
India

*[Signature]*

**Mr. Rudra Bhanu Satpathy**  
CEO & Founder  
IFERP



# Advances in Research

Certificate No: SDI/HO/PR/Cert/65056/FEL

2020

Certificate of Excellence in Reviewing

awarded to

**Preeti Garg**

Shobhit University, MEERUT

*In recognition of an outstanding contribution to the quality of the Journal.*

Dr. M Basumondal  
Chief Managing Editor

Rep. Offices:  
India: Guest House Road, Street no - 1/6, Hooghly, West Bengal, India, Tele: +91 861752708, UK: Third Floor, 207 Regent Street, London, W1B 3HH, UK, Fax: +44 20 3031 1429



Registrar  
Shobhit Institute of Engg. & Tech.  
(Meerut)  
Meerut-250110

स्थापना-2016

# शुभ लाल उत्कृष्ट उच्च माध्यमिक विद्यालय

रामविशानपुर, राघोपुर (सुपौल)

स्कूल कोड- 42383

पत्रांक- 1526-2

दिनांक...14/07/2020...

प्रेषक :- प्राचार

प्रेषित :- सेवा में,

विषय :-

## इन्टरशिप के संबंध में

प्रमाणित किया जाता है कि नितिश कुमार, पिता- राजकुमार यादव

Shobhit Institute of Engineering & Technology, Meerut

B.Ed- II<sup>nd</sup> Year की छात्र है इस विद्यालय में इन्होंने शिक्षक इन्टरशिप

के अन्तर्गत 15 दिसम्बर 2019 से 14 अप्रैल 2020 (4 माह) का शिक्षण कार्य की है।

उस दौरान इनका कार्य उत्तम एवं सराहनीय रहा है।

अतः हम इनके उज्ज्वल भविष्य की कामना करता हूँ।

Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modinagar, Meerut-250110



उदयशंकर कुमार  
प्रधानाध्यापक  
शुभलाल उ० उ० मा० वि०  
रामविशानपुर, राघोपुर (सुपौल)



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12<sup>TH</sup> & 13<sup>TH</sup> JUNE 2021 | VIRTUAL CONFERENCE

This is to Certify that .....

Shobhit University, India

**Dr. Preeti Garg**

..... of

..... has done his/her

excellence in organizing the "International Conference on Applied Sciences, Engineering, Technology & Management

(ICASETEM - 2021)" organized by Crown University International Chartered inc, Ghana held on 12<sup>th</sup> & 13<sup>th</sup> June 2021.

**H E UNESCO Laureate Prof. Sir Bashiru Aremu**  
Department of CS, I&CT  
The Vice Chancellor  
Crown University Intl Chartered Inc, Ghana



**Mr. Rudra Bhannu Satpathy**  
CEO & Founder  
Institute For Engineering Research  
and Publication (IFERP)

Registered Office: Shobhit University (Deemed to be University) NH-58, Modipuram, Meerut-250119



# Journal of Management Research and Analysis

Reviewer Certificate No - JR-JMRA-09712-12005-AR13471

## *Certificate of Excellence in Reviewing*

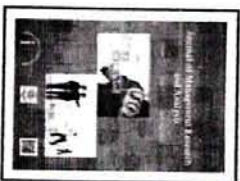
Manuscript title - 'Sustainable management of food wastes using effective microorganisms compost'  
**awarded to**

**Dr. PREETI GARG**

---

**Shobhit Institute of Engineering & Technology, Deemed to be University,  
Meerut**

in recognition of an outstanding contribution to the quality of the journal.



**Anshu Chauhan**  
Editorial Manager

Registrar  
Shri  
(Dr)  
NH-30, Meerut

Tech  
250114



# INTERNATIONAL JOURNAL OF CONTEMPORARY RESEARCH IN ENGINEERING AND TECHNOLOGY

*(Half-yearly Journal of Shobhit University, Meerut)*

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Shobhit University, Meerut  
**Asstt. Editor** : Mr. Aniket Kumar, Shobhit University, Meerut

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*Note: Opinion expressed in the articles, published in the Journal does not necessarily represent the views of the S University, Meerut, or the Editor. Any material published in the journal may not be reproduced or reprinted, in form, without the prior permission from the Editor.*

Printed at Indraprastha Press (CBT), New Delhi-110002

*[Handwritten Signature]*  
Shobhit University  
(Department of E&CE)  
NH-58, Khaspurani, Meerut-250110



# (ॐ) NANDIT RUDRAKSHAM

To,

Dr. Sandeep Kumar , Professor

Shobhit University, Meerut

**Regarding:** Collaboration with Rudraksha Research Centre

Dear Professor

We would like to invite to for a special guest lecture on “Ruraksha and its Medicinal Value” at village Sisoli, Meerut Uttar Pradesh. There are more than 30 females are invited for the self help group formation , In the lieu of that we request you that to give a preliminary knowledge about Rudraksha. We will highly thankful to you.

Regards

*Sandeep Kumar*  
Director 20/05/21  
Aanandit Ruraksham

Gali No. 3, Phool Bagh Colony, Meerut-250002

Mob No: +91-8279941057

Email: [aananditrudraksham@gmail.com](mailto:aananditrudraksham@gmail.com)

*Shobhit*  
UNIVERSITY  
Meerut

& Tech.  
Meerut-250110



SANCLUM

SANCLUM LIFE SCIENCE PVT. LTD.

CIN- U73200WB2020PTC238140

Ref No: SLS/2020-21/008-LS

Date: January 28, 2021

*Award  
for  
Extension Activities*

We are pleased to confer the award for active participation of Dr. Sandeep Kumar and Dr. Saurabh Tyagi from Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Uttar Pradesh in collaborative extension activity Development on Useful Herbal Remedies from Medicinal Plant - An approach towards Entrepreneurship held on at Village Maithana Inder Singh, Block Daurala, Distt. Meerut, Uttar Pradesh

Director

*Saurabh Tyagi*

*[Signature]*  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut - 250114

Address: Sanclum Life Science Pvt. Ltd. c/o. Mr. Swadesh Kumar Das  
Kharipukuriya, P.O.- Nachinda, Midnapore, West Bengal - 721444, India  
Phone: 7300869547 Email: info@sanclum.com  
Website:



Mob: +91 702449484  
+91 9084788818

### ADHAR FOUNDATION & SOCIAL WELFARE TRUST

HIG. I-100, Pallaspuram Phase II, Madipuram, Madurai - P.250116  
E-mail : adharfoundation24@gmail.com

Ref No.....

Date..... 23/10/20

#### Letter of Appreciation

We are pleased to inform that Dr. Sandeep Kumar D . Manoj Kumar, Dr. Manisha Rastogi, Ms. Vandana Kanyal and Dr. Saurabh Tyagi Worked in Kishan Ghosthi to enhance the crop productivity along with their Students.

We are highly thankful to them for their supports in successful organization of the event.

Thanking You  
With Regards

Your Sincerely

Dr. Sanjay Kumar Tyagi

Registrar  
Shri... & Tech  
(Den...)  
NH-50... 250116





**STEM RESEARCH SOCIETY**  
 Science Technology Engineering Management



Ref.: STEM-EXT\_Award/2021/EDU01

Dated: 15<sup>th</sup> February 2021

## **STEM – RS Awareness Award**

This award conferred to

*Dr. Anjali K.*

*in recognition of conducting*

***Awareness session in organic farming***

**under**

*The Green Earth Scheme*  
**In the vicinity of Saharanpur**

f) Director – STEM-RS



STEM  
 Research Society



*Shobhit Singh*  
 Registrar  
 State Technical Education  
 Saharanpur  
 U.P.  
 Phone-2501113



**To Whomsoever It May Concern**

This is to certify that Dr. Shiva Sharma, Assistant Professor, Shobhit University was associated as a consultant on a collaborative project with our company for a period of 1 year (2020-21). She has a wide knowledge in Applications of Computer in Biomedical Sciences and having good exposure in academics & research.

She has performed her duties in a diligent and satisfactory manner and was a valuable member of our project team.

We wish her all success in his future endeavours.

A handwritten signature in black ink, appearing to read "Ajay Sonohra", with a horizontal line underneath.

Director

  
Registrar  
Shobhit University (Engg. & Tech.)  
(Delhi)  
250114



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7, Square House, 3<sup>rd</sup> Floor, Krishna Nagar, Opp. B4/148B, Safdarjung Enclave, New Delhi 110029

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# मेरठ किडनी हॉस्पिटल प्रा. लि.



पभात नगर, एल.आई.सी. रोड, मेरठ - 250 001

फोन : 7500291291, 0121 - 3265888, 2672022 फैक्स : 0121-2672021

## To whom so ever it may Concern

It is our pleasure to inform that Dr. Shiva Sharma, Assistant Professor, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut is our collaborator to provide the Technical and Scientific support to the Biomedical Engineering, Department. This collaboration is for four years since 2020 to 2024 and we wish this joint collaboration will outcome in high quality research papers, technical and other educational support to the department.

Ramsha Ahmed

Biomedical Engineer

Meerut Kidney Centre

Registrar  
Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
Meerut

250110







## BEE BREEDER OF HIGH QUALITY QUEEN BEE

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& All Beekeeping Equipments  
Mobile : 9759424652

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Producer of :  
Natural Honey  
Bee Pollen  
Royal Jelly  
Pure Wax  
Propolis

Ref No. ....

File No.: JA/File/2021/182

Dated : .....

Dated: October 21, 2021

### Sanction Order

**Subject:** Financial Sanction of the research project titled "Quality Testing of Honey" Reg. No. SUG/Project/2021/07

#### **Principal Investigator (PI):**

**Dr. Shiva Sharma**  
Assistant Professor  
Department of Biomedical Engineering  
Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut

#### **Co-Principal Investigator (PI):**

**Dr. Shivani**  
Assistant Professor  
Department of Agriculture Technology  
Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut

Sanction of the Jyoti Apiaries, Nanauta, Road, Gangoh Distt. Saharanpur (Uttar Pradesh), India is hereby accorded to release an amount of INR 1,00,000/- (Rupees One Lakh), as 1<sup>st</sup> instalment out of sanctioned total project cost of INR 6,00,000/- (Rupees Six Lakhs) to the Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut. The release of grant would as be following:

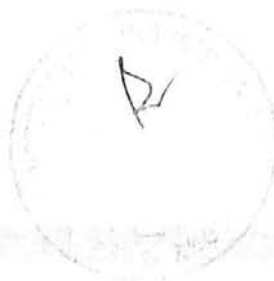
Instalment Schedule	Amount	Remarks
1 <sup>st</sup> Instalment With Sanction Letter	INR 1,00,000/-	Oct - Nov. 2021
2 <sup>nd</sup> Instalment After Submission of First Report	INR 2,00,000/-	March 2022
3 <sup>rd</sup> Instalment After Submission of Second Report	INR 2,00,000/-	August 2022
4 <sup>th</sup> Instalment After Submission of Final Report	INR 1,00,000/-	Oct - Nov. 2022

**Note:** The grant should be utilized within the sanctioned budget head.

Signature of Authority

For Jyoti Apiaries

Prop.



Shobhit Institute of Engineering & Technology  
(Deemed to be University)  
Meerut-250110  
NH-58  
250110



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Jaipur - 302017 (Raj) | Tel: 0141 4046263 | Mob: 9414047023  
Web: www.jaricowellness.com | E-mail: info@jaricowellness.com

Ref No:

Dated: June 17, 2021

## SANCTION ORDER

- 1. Dr. Subrata Das (Principal Investigator)**  
Associate Professor, School of Biological Engineering and Life Sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut
- 2. Dr. Alpana Joshi (Co-Principal Investigator)**  
Associate Professor, School of Biological Engineering & Life Sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut
- 3. Dr. Sandeep Kumar (Co-Principal Investigator)**  
Professor, School of Biological Engineering and Life Sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut

**Subject:** Sanction of grant from Jarico Wellness Pvt. Ltd. Malviya Nagar, Jaipur for Development and Evaluation of Herbal Medicines for Implants.


Dear Sir/Madam

1. The undersigned is directed to convey the approval of sanction of grant from Jarico Wellness Pvt. Ltd. Malviya Nagar, Jaipur for carrying out the research on "Development and Evaluation of Herbal Medicines for Implants" for a period of two years.


2. The scope of work, the estimated cost of the project and amount of grant sanctioned from Jarico Wellness Pvt Ltd. Malviya Nagar, Jaipur is given below:

S. No.	Scope of work	Cost proposed	Cost Estimate Sanctioned for Grant	Amount of Grant Sanctioned
1.	Development of herbal medicine	Rs. 17,00,000/-	Rs. 10,00,000/-	Rs. 10,00,000/-

3. You are requested to send us the account details signed by Registrar office to release the grant.

  
Signature of Authority

Copy to: The Registrar, Shobhit Institute of Engineering and Technology (Deemed to-be-University), NH-58, Modipuram, Meerut-250110

  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





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Web : www.jaricowellness.com | E-mail : info@jaricowellness.com

Ref. No.:

Dated:- November 15, 2021

## Release of Research Grant

**The Registrar,**  
Shobhit Institute of Engineering & Technology  
(Deemed to-be-University),  
NH-58, Modipuram, Meerut-250110

**Subject:** Release of 1<sup>st</sup> Installment of Research Grant

Sir/Ma'am,

1. With reference to our earlier sanction letter dated June 17, 2021 and the acceptance of the work by the faculties of your University, the undersigned is directed to convey the approval of sanction grant from Jarico Wellness Pvt. Ltd, Malvia Nagar, Jaipur for "Development and Evaluation of Herbal Medicines for Implants"

2. The distribution of instalment of releasing the fund is given below:

S. No.	Total Research Grant	1 <sup>st</sup> Instalment	2 <sup>nd</sup> Instalment	3 <sup>rd</sup> Instalment
1.	Rs. 10,00,000/-	Rs. 2,00,000/-	Rs. 3,50,000/-	Rs. 4,50,000/-

**Note:** The grant should be utilized within the sanctioned budget head as given at the time of project submission. .

JARICO WELLNESS PVT. LTD.

Director

Signature of Authority

Copy:

1. The Principal Investigator, Dr. Subrata Das, Shobhit Institute of Engineering & Technology, Deemed to-be-University, Modipuram, Meerut-25110
2. Accounts File – for CA

Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to-be-University),  
NH-58, Modipuram, Meerut-250110





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June 12, 2021  
Expert Collaborator # IAM/7-2021

To,  
**Dr. Shudheesh K. Shukla,**  
School of Biomedical Engineering,  
Shobhit Institute of Engineering & Technology (Deemed to-be-University),  
Modipuram, Meerut, 250110, India

**Re: Letter of Expert Collaborator for Sustainable Science and Technology Work with  
Institute of Advanced Materials (IAAM), Sweden**

Dear Dr. Shukla,

We are happy to consider you “**Expert Collaborator for Sustainable Science and Technology**” activity with Institute of Advanced Materials (IAAM), Sweden. This joint collaborative work is based on mutual consent with myself under framework of sustainable agenda of UN and IAM organization. The subject of joint science and technology research is multidisciplinary therefore you have to participate in expert meetings from time to time and update your progress with experts’ suggestions.

Institute of Advanced Materials, IAAM, work extensive research and studies which enhance and upgrade the existing tools and technology in the sectors of Energy, Environment, and Health in the line of United Nation SDGs and Horizon Europe priorities (<https://www.iaam.se/translational-research>).

With Best Regards | Med Vänliga Hälsningar

**Dr. Anshuman Mishra, PhD, FICS**

Prof. Herbert Gleiter Fellow

Group Leader, Translational Research & Sustainable Healthcare Management

Institute of Advanced Materials, IAAM; **Web:** <https://www.iaam.se/anshuman-mishra>,

**Email:** [anshuman.mishra@iaam.se](mailto:anshuman.mishra@iaam.se) and **Mobile:** (+46) 739299485

**Address:** Room No. G04, Gammalkilsvägen 18, Ulrika 590 53, Sweden

**ORCID:** <https://orcid.org/0000-0002-9390-9971>

**ResearchGate:** [www.researchgate.net/profile/Anshuman\\_Mishra5](http://www.researchgate.net/profile/Anshuman_Mishra5)

Institute of Advanced Materials, IAAM  
(A body of the Translational Research and  
Innovations of IAAM)  
Org. 559167-3883

Gammalkilsvägen 18, Ulrika  
590 53, SWEDEN

Web: [www.iaam.se](http://www.iaam.se)  
Tel: (+46) 739299485  
Email: [anshuman.mishra@iaam.se](mailto:anshuman.mishra@iaam.se)

  
Registered  
Shobhit  
(Deemed to be University)  
Meerut-250110

Shobhit Institute of Engineering & Technology  
Meerut-250110



**J.C. Bose University of Science & Technology, YMCA, Faridabad**  
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(Established by Haryana State Legislative Act No. 21 of 2009 & Recognized by UGC Act 1956 u/s 22 to Confer Degrees)  
Accredited 'A' Grade by NAAC

**DEPARTMENT OF CHEMISTRY**

To Whom May concern

It is with great pleasure to inform that we are working in collaborative manner with Dr. Sudheesh K. Shukla, Assistant Professor, School of Biomedical Engineering, Shobhit Institute of Engineering & Technology (Deemed to-be-University), Modipuram, Meerut, 250110, India. Dr. Shukla is my sincere and active collaborator in academics as well as research. Together we are working to explore in different aspects of research development and innovation such as publication, project, and student mentorship.

I do hope that this collaboration will go a long way and will bring glories to parent institutions of both of us.

Please feel free to contact me for any additional information required in the near future.

*S. Mangla*  
**Dr Bindu Mangla**

**Associate Professor**

M Sc, M Tech, Ph D

Department of Chemistry

JCBose University of Science & Technology, YMCA, Faridabad

*Shukla*  
**Shobhit Institute of Engineering & Technology**  
Modipuram, Meerut-250110





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**12 June 2021**

To whom it may concern,

This letter serves to inform that Dr. Sudheesh K. Shukla, Assistant Professor, School of Biomedical Engineering, Shobhit Institute of Engineering & Technology (Deemed to-be-University), Modipuram, Meerut, 250110, India is my active collaborator. We are working to explore different aspects of research and development such as publication, project, student mentorship in the area of nanoscience & Nanotechnology, Waste management, environmental challenges.

Please feel free to contact me for any additional information required in the near future.

Thanking you.

Sincerely,

**Dr Ajit Sharma (PhD)**

Associate Professor

School of Chemical Engineering and Physical Science,

Division of Research and Development,

**Lovely Professional University,**

Phagwara, Punjab, India

**Skype ID:** ajit.sharma3

**Email Id:** [ajitsharma2003@gmail.com](mailto:ajitsharma2003@gmail.com)

**Phone:** +91-7355155514 (M),

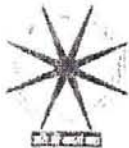
**ORCID iD:** <https://orcid.org/0000-0003-2851-3206>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=56429806100>

**Google scholar :** [https://scholar.google.com/citations?user=3\\_XHyJUAAAAJ&hl=en](https://scholar.google.com/citations?user=3_XHyJUAAAAJ&hl=en)

*Ajit Sharma*  
Registrar  
Shobhit Institute of Engineering & Tech  
ID: 250110  
NH-58, Modipuram, Meerut-250110





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### To Whom May concern

It is my pleasure to inform that Dr. Sudheesh K. Shukla, Assistant Professor, School of Biomedical Engineering, Shobhit Institute of Engineering & Technology (Deemed to-be-University), Modipuram, Meerut, Uttar Pradesh-250110, India is my collaborator. We are working to explore different aspects of research and development such as joint publications, collaborative research project and student mentorship.

Please feel free to contact me for any additional information required at [rafique@mgcub.ac.in](mailto:rafique@mgcub.ac.in) or +91-9006476761.

  
05/05/2021

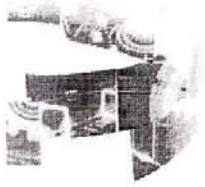
(Dr. Rafique Ul Islam)

Professor, Department of Chemistry

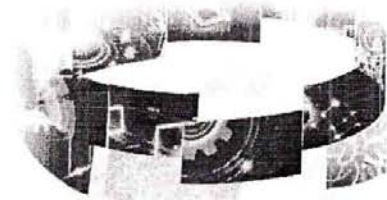
School of Physical Sciences

  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
Modipuram, Meerut - 250110





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Dated: November 16, 2021

To,  
Dr. Sudheesh K. Shukla  
Assistant Professor  
School of Biomedical Engineering  
Shobhit Institute of Engineering & Technology (Deemed to-be-University)  
Meerut 250110, INDIA

**Sub: Confirmation of our collaboration in the translational research & innovation**

Dear Dr. Shukla,

As per your our discussion, this to confirm that we are working as research collaborators in the below mentioned translational research & innovation projects:

1. New frontiers in nanoscience & nanotechnology
2. Separation science & technology
3. Lab-on-a-chip devices
4. COVID science & technology
5. Agricultural research & nano-fertilizer

Thanks & Regards,

*Santanu*

Sincerely

**Dr. Santanu Patra**

*Deputy Director*

*VBRI Innovation Pvt. Ltd.*



*Registrar*  
Shobhit Institute of Engg. & Tech  
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**STEM RESEARCH SOCIETY**  
Science Technology Engineering Management



Ref: STEM-EXT\_Award/2021/EDU01

Dated: 20<sup>th</sup> September 2021

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This award conferred to

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**under**

**Right to Education Awareness Scheme**



Director - STEM RS  
S.T.E.M.  
Research Society



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+91-9456086759



Registrar  
Shri Bhanu Prasad Institute of Tech & Tech.  
(Dah...)  
NH-58, Saharanpur, Dist. Saharanpur, PIN-250111



# Shobhit

Institute of Engineering & Technology  
Deemed to-be-University

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NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

Date- 22-01-2021

The Principal/Manager

*Ashok Kumar*

*A.S. Inder College, Mauvana*

*Meerut*

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from *31/Jan/2021.....to 30/Apr/2021* (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- *Eshu Dublish*

Father's name- *Harion*

Roll No.- *MRT19UGBED026*

Thanking you

Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

Registrar  
Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut - 250110



# ए० एस० इन्टर कालिज

मवाना (मेरठ)

क्रमांक.....

दिनांक 10/5/2021

प्रमाणित किया जाता है कि ईशू दुहालाश पुत्र  
 श्री हरिओम सिंह मवाना ने इस लॉन्ग में  
 दिनांक 31 जनवरी 2021 से 31 मार्च 2021 तक  
 अध्यापन कार्य किया तथा दिनांक 1 अप्रैल 2021  
 से 30 अप्रैल 2021 तक ON.LINE कक्षाएं भी  
 की।

मैं इनके उच्चतम भावधर्म को कामना करता हूँ।

*(Handwritten Signature)*  
 10/5/2021

*(Handwritten Signature)*  
 Registrar  
 Shobhit Institute of Engg & Tech  
 No. 10, Sector 10, Meerut



**Original article**

**Isolation of lupenone (18-Lupen-3-one) from *Roscoea purpurea* root extract**

G Kaur<sup>1</sup>, V Gupta<sup>1</sup>, P Bansal<sup>1\*</sup>, S Kumar<sup>2</sup>, RK Rawal<sup>3</sup>, RG Singhal<sup>4</sup>

**Abstract:**

**Background:** Endangered plant "Kakoli" is important component of Ashtwarga group of plants and anti-aging Ayurvedic preparations. Due to limited supply of original plant, official substitutes and common adulterants are being used by drug manufacturers. There is a need to identify a marker compound that could differentiate original plant from substitutes and common adulterants. **Objective:** To isolate and characterize the marker compound from roots of this plant. **Material and methods:** The extract of plant root was prepared in methanol and marker compound was isolated from methanol extract through column chromatography by using silica gel (60–120 mesh size) in glass column (1000mm x 50mm). The compound was obtained in fractions numbered 990-1550 and isolated by cutting and pooling of TLC plate of compound having  $R_f = 0.52$  by the use of mobile phase toluene: ethyl acetate: formic acid (9.5: 0.5: 0.1 v/v/v). Compound was characterized by using IR, NMR, Mass and UV spectroscopy. **Results:** The methanol extract was blackish brown in color and showed the presence of alkaloids, terpenoids, phytosterols, flavonoids, phenolics and amino acid. The isolated compound was found to be colorless terpenoid needle with m.p. 168-171°C;  $[\alpha]_D^{25} +62.8^\circ$  (c 1.0, CHCl<sub>3</sub>). Spectral analysis confirmed presence of lupenone. **Conclusion:** In present study lupenone was isolated for the first time from Kakoli. None of adulterants and substitutes of Kakoli are reported to have lupenone hence can be used as marker for identification as well as differentiation of the plant from official substitutes and common adulterants.

**Keywords:** Kakoli; Lupenone; Isolation; Marker; Zingiberaceae

Bangladesh Journal of Medical Science Vol. 19 No. 04 October '20. Page : 692-696  
DOI: <https://doi.org/10.3329/bjms.v19i4.46627>

**Introduction**

Since ages India has been blessed with the wealth of miraculous medicinal plants. Ayurveda was not in text form and was passed on from teacher to taught by recitation and memory. This tradition passed on from generation to generation till the Ayurveda was compiled and found its rightful place at the end of the fourth Veda, the Atharvaveda. Plants and plant products have been recognized in Rigveda and Atharvaveda for cure of a number of ailments<sup>1</sup>. Due to different attitude of rulers at different times and due to advent of other therapies including Unani and

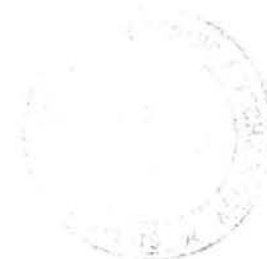
Tibbi, a good deal of Ayurvedic literature was lost. This led to a decline in the glory of Indian medicine in as much as a number of effective remedies were lost. In their place a number of worthless drugs of doubtful origin came in which did not have the curative properties and thus the good name of the Indian system of medicine got over shadowed<sup>2</sup>. The same happened with Ashtwarga group of plants and formulations in which these plants were used as important components. "Ashtawarga" constituting a group of eight plants (Jivaka, Rishbhaka, Meda, Mahameda, Kakoli, Kshirakakoli, Riddhi and

1. G Kaur<sup>1</sup>, UCER, Baba Farid University of Health Sciences, Faridkot, Punjab
2. V Gupta<sup>1</sup>, UCER, Baba Farid University of Health Sciences, Faridkot, Punjab
3. P Bansal<sup>1\*</sup>, UCER, Baba Farid University of Health Sciences, Faridkot, Punjab
4. S Kumar<sup>2</sup>, Central Ayurveda Research Institute for Respiratory Disorders (CARIRD), Patiala, Punjab
5. RK Rawal<sup>3</sup>, ISF College of Pharmacy, Moga, Punjab
6. RG Singhal<sup>4</sup>, Shobhit University, Meerut, Uttar Pradesh

**Correspondence to:** Dr. Parveen Bansal, Joint Director, University Centre of Excellence in Research, Baba Farid University of Health Sciences, Faridkot, India  
E-mail: bansal66@yahoo.com, ucer\_bfuhs@rediffmail.com



Shobhit University  
(Deemed to be University)  
NH-58, Meerut, Uttar Pradesh (250110)



# JK BIOMEDICAL ENGINEERING SERVICES

Srinagar Kashmir-190025, Email: jkbiomess@rediffmail.com

Hilal Ahmad Sofi,  
Shobhit Institute of Engineering Technology,  
(Deemed to be university), Meerut-UP

Dated: 20 Dec. 2020

We are delighted that you will be entering our fellowship program in Field from 25 Dec. 2020 and would like to offer you a fellowship, we outlined for you the terms of the award. Your appointment as a fellow be for the term and would include a stipend or for the period of one year to be distributed in ten lump sum monthly payments in order to maintain fellowship for the period of one year and be eligible for reappointment in future, you must maintain a satisfactory performance record and be employed as a full time. There is no work obligation associated with this award. In the nature of the company budget, reappointment in future year is dependent upon the availability of company funding.

To advise us of your intentions, please sign the duplicate copy of this letter indicating your acceptance or declination of this offer and return it to me. As soon as possible.

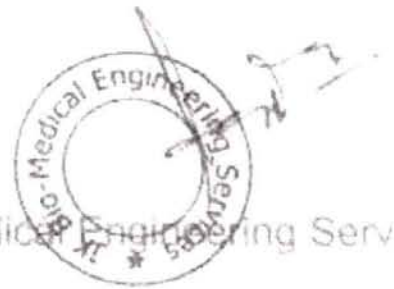
I accept the fellowship as stipulated in this letter.

Signature: Hilal Sofi

Date: 23-12-2020

For

JK Biomedical Engineering Services



Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut, U.P. - 250110



Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut, U.P. - 250110



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E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To.

The Principal/Manager

Date- 15/01/2021

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 15.01.2021 to 15.05.2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records & participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.


Name- Juhi Agarwal

Father's name- Shri Raj Kumar Agarwal

Roll No.- MRT19UGBED010

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
(Dr. B. P. SINGH)  
Principal  
Dr. Ambedkar Inter College  
Tej Garhi, Meerut

From  
Shobhit University, Meerut  
  
Registrar  
Shobhit Institute of Engineering & Technology  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



## Isolation and Characterization of Stigmasterol from *Fritillaria roylei*

Gunpreet Kaur<sup>1,\*</sup>, Vikas Gupta<sup>1</sup>, R. G. Singhal<sup>2</sup>, Parveen Bansal<sup>1</sup>

<sup>1</sup>Baba Farid University of Health Sciences, Faridkot, India

<sup>2</sup>Shobhit University, Meerut, India

Corresponding author\*  
reetjattana21@gmail.com

Manuscript received: 26 June, 2020. Revision accepted: 06 November, 2020. Published: 16 November, 2020

### Abstract

*Fritillaria roylei* (Kshirakakoli) is the threatened species of "Ashtwarga" group suffers lot of confusion for identification & authentication in Ayurvedic system of medicine. Due to lack of natural sources and insufficient availability of kshirakakoli, chances of adulteration and substitution increases which in turn leads to loss of faith of people in herbal drugs. Thus for identification and differentiation, quality standardization and quality assurance of kshirakakoli containing herbal formulations there is a need to isolate chemical marker compound using advanced analytical techniques. The methanol extract of root samples of plant was prepared and phytochemical screening was performed. Marker compound was isolated from the extract using column chromatography. Single compound having  $R_f$  value 0.31 was isolated with TLC by using mobile phase n-hexane: ethyl acetate: formic acid (8:2:0.1 v/v/v) and purified by re-crystallization with methanol. Isolated compound was further characterized by using melting point and spectral analysis. The methanol extract was dark brown in color and showed the presence of steroids, amino acids and flavonoids. The isolated compound was found to be white crystalline powder with melting point range of 167-169°C. Spectral analysis confirmed the presence of *Stigmasterol*. In present study *stigmasterol* was isolated for the first time and can be used as chemical marker for identification and differentiation of the plant from its substitutes.

**Keywords:** Isolation; Kshirakakoli; Marker; Standardization; *Stigmasterol*.

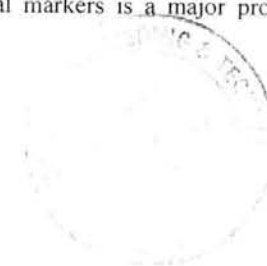
### INTRODUCTION

Ayurveda is one of the most distinctive systems of medicine known to man (Jaiswal and Williams, 2017; Sreena et al., 2011). It is regarded as the oldest divine knowledge in the humankind which is based on the principle of maintaining a balance between the interconnected relations within the body and mind. Ayurvedic medicines include herbs, herbal materials, herbal preparations, minerals and finished herbal products. Ayurveda is blessed with plentiful speculate medicinal plants including Ashtawarga group of eight medicinal plants i.e. Kakoli (*Roscoea purpurea*), Kshirakakoli (*Fritillaria roylei*), Jeevaka (*Microstylis muscifera*), Rishabhaka (*Malaxis acuminata*), Meda (*Polygonatum cirrhifolium*), Mahameda (*Polygonatum verticillatum*), Riddhi (*Habenaria edgeworthii*) and Vridhi (*Habenaria internedia*) (Balkrishna et al., 2012; Saha D et al., 2015). In recent days, herbal medicines are getting more popular with the comprehensive movement of people towards natural therapies. This increasing demand of the population towards herbal medicines results in shortage of authentic raw materials leading to increase in chance of adulteration and substitution because the regulatory authorities lack the strict quality control measures of herbal medicines

(Shukla and Dhanya, 2017). This same situation happens with plants of Ashtawarga group. According to International Union of Conservation of Nature (IUCN) and Conservation Assessment and Management Plan (CAMP), *Fritillaria roylei* (Kshirakakoli) is considered as threatened medicinal plant (Saha et al., 2015; IUCN 2001; Kuniyal et al., 2015). From various studies, it has been found that due to lack of natural sources and insufficient availability to meet the requirements of market for the raw material the Department of AYUSH, Govt. of India, permitted the use of available substitutes in place of original plant. The substitution of *Fritillaria roylei* is done with Ashwagandha (root) (*Withania somnifera*) or Safed musli root (*Chlorophytum arundinaceum* Boker) (Balkrishna et al., 2012; Sagar, 2014). However, literature survey reveals that Ayurvedic parameters as well as pharmacological actions of the *Ashtawarga* plants do not match with their substitutes. The substitute of *F. roylei* that is *W. somnifera* or *C. arundinaceum* shows 33% or 16% similarity which ultimately results in reduced efficacy of the drugs along with loss of faith of people towards use of herbal drugs (Virk et al., 2015). Thus, drug standardization and quality assurance is essential to assess the safety, efficacy and quality of herbal drugs. Lack of chemical markers is a major problem for the

  
Shobhit University  
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Ph: 0182-2501114

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E mail@shobhituniversity.ac.in  
U www.shobhituniversity.ac.in

To,

Date- 13/01/2021

The Principal Manager  
**CHANAKYA INTERNATIONAL**  
**SCHOOL, TAJAJUR**

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir/Madam


As per the norms of NCTE Every pupil teacher will engage with 16 weeks of co-education internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 01st January 2021 to 20th May 2021 (4 Months). We can't organize this programme without your school co-operation.


So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their duty record, records and participation/organized co-curriculum activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- **Komal Kumari**  
Father's name- **Navin Chandra Singh**  
Roll No.- **MRTTUUGBED 006**

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Director  
Chanakya International School,  
Tajpur, Reg. No.-SAM/TAJ/07



  
Registrar  
Shobhit Institute of Engineering & Technology  
(Deemed to be University)  
Meerut

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Shobhit Institute of Engineering & Technology  
(Deemed to be University)  
Meerut





9997539022  
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# दिशा इण्टर कॉलिज

समौली, दौराला (मेरठ)

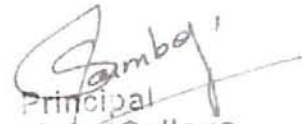
माध्यमिक शिक्षा परिषद् इलाहाबाद उ०प्र० द्वारा मान्यता प्राप्त

पत्रांक संख्या .....

दिनांक 16-5-21

प्रमाणित किया जाता है कि लक्ष्मी प्रसाद सिंह निवासी ग्राम - बडमली डा० - दौराला (मेरठ) ने इस विद्यालय में 18-1-2021 से लेकर विद्यालय खुलने तक ऑनलाइन शिक्षण कार्य किया है।

इसका कार्य व व्यवहार काफी सहयोग प्रद  
रहा है। हम इसके उज्ज्वल भविष्य की कामना  
करते हैं।

  
Principal  
Disha Inter College  
Carioli, Daurala (Meerut)

  
Registrar

Shri. P. K. Singh, B.Tech

Address: Carioli, Daurala (Meerut) - 250113





**Shobhit**

To,

Date: 21-Jan-2021

The Principal/Manager

Saini Public I.C. ....

Saini Mawan Road Mt.

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 21-04-2021 to 24-04-2021. (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- Lovely Saini

Father's name-

Roll No.- MR79UG4BED010

Thanking you

  
Principal,  
Shobhit University Meerut

  
Principal  
Saini Public Inter College  
Balni, Meerut

  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-24, Meerut-250113.





(Govt. Recognized)

Mob. 989702904

# SAINI PUBLIC INTER SCHOOL

Saini, Mavana Road, Meerut.

Ref. No. ....

Dated. 26/04/2021

## बी0 एड0 इन्टर्नशिप प्रमाण पत्र

प्रमाणित किया जाता है कि श्री/कु0/श्रीमति..... भवदीय सेती .....  
ने हमारे विद्यालय से 16 सप्ताह की बी0 एड0 इन्टर्नशिप दिनांक 21-01-2021 से  
21-04-2021 तक श्री/श्रीमति सविता .....के मार्गदर्शन में सफलतापूर्वक पूर्ण की है।

इस अवधि में उन्होंने पूर्ण कालिक अध्यापिका की तरह दैनिक शिक्षण के अतिरिक्त  
विद्यालय से समस्त क्रियाकलापों में कुशलता प्राप्त की है जैसे - प्रार्थना सभा आयोजित  
करना, समय-सूची का निर्माण करना, उपस्थिति पंजिका की प्रयोग, शैक्षणिक व सांस्कृतिक  
क्रिया कलापों का संचालन, स्टाक रजिस्टर बनाना, शुल्क एकत्रीकरण, खेल गतिविधियों का  
संचालन आदि।

इस अवधि में उन्होंने 90 प्रतिशत उपस्थिति पूर्ण की तथा उनका व्यवहार मधुर,  
अनुशासन मय तथा सहयोगपूर्ण रहा है। हम इनके उज्ज्वल भविष्य की कामना करते हैं।

सधन्यवाद।

  
Principal  
Saini Public Inter College  
Saini, Meerut, भवदीय

  
School Head

Tech

180112



# Study of Emission Characteristics of the Projectile Fragments Produced in the Interaction of $^{84}\text{Kr}_{36}$ with Nuclear Emulsion Detector at 1 A GeV

M. K. Singh<sup>\*1</sup>, S. Kumar<sup>2</sup>, R. K. Jain<sup>2</sup>, V. Singh<sup>3,4</sup>

<sup>1</sup>Department of Physics, Institute of Sciences and Humanities, G. L. A. University, Mathura - 281406, India.

<sup>2</sup>Department of Physics, Shobhit Institute of Engineering and Technology, Meerut - 250110, India.

<sup>3</sup>Department of Physics, Institute of Science, Banaras Hindu University, Varanas-221005, India.

<sup>4</sup>Department of Physics, School of Physical and Chemical Sciences, Central University of South Bihar, Gaya - 824236, India.

\*Email: [singhmanoj59@gmail.com](mailto:singhmanoj59@gmail.com)

ORCID ID: <https://orcid.org/0000-0002-5451-6622>

## Abstract

This article is focused on the characteristics of the projectile fragments of charge  $1 \leq Z \leq 10$  produced in the interaction of the  $^{84}\text{Kr}_{36}$  with nuclear emulsion detector at 1 GeV per nucleon. We have studied the average charge distribution and multiplicity distribution of the projectile fragments having charge  $1 \leq Z \leq 10$ . We have also studied the emission behaviour of various projectile fragments produced from the interaction with different target groups of nuclear emulsion detector. From this study we have observed that the emission of projectile fragments is strongly dependent on the interaction with different type of the target groups of nuclear emulsion detector as well as on the mass of the projectile beam. The results are compared with other experimental observations carried out at relativistic energy and found to be consistent.


**Keywords:** Projectile fragmentation characteristics; Nuclear emulsion detector; correlation between projectile fragments with mass of the projectile beam; multiple-charged projectile fragmentation.

**PACS Nos.:** 25.70.Mn; 25.70.Pq; 29.40.Rg

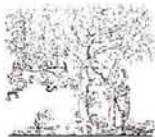
## I. Introduction

Nuclear emulsion detector has a long history of use in nuclear physics and high energy physics [1]. Nuclear emulsion detector is a very sensitive, having high position resolution ( $\sim 1\mu\text{m}$ ), compactness of size,  $4\pi$  detection capability, and large density detector which made its role very important in basic research [1,2]. The high resolution of nuclear emulsion detector makes it more suitable for the detection of short-lived particles such as charmed mesons,  $\tau$  leptons, etc [1-3]. The studies of heavy ion collisions at relativistic energy inspire experimental as well as theoretical physicists because it provides the unique platform for the investigation of interaction mechanism, particle emission characteristics as well as rare physics phenomena at high temperature and high density [4].

In previous studies, most of the researchers focused on the emission characteristics of the singly-charged ( $Z=1$ ), doubly-charged ( $Z=2$ ), and multiple-charged projectile fragments ( $Z>2$ ) [3, 14-18]. In the present work we mainly devoted to discussion of the characteristics of the projectile fragments (such as average charge distribution and the multiplicity distribution) of charge  $1 \leq Z \leq 10$  produced in the interaction of the  $^{84}\text{Kr}$  with nuclear emulsion detector at 1 GeV per nucleon. We have also studied the emission behaviors of the projectile fragments produced from the interaction with different target groups of nuclear emulsion detector.

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deer) ...  
NH-58, ...





## Evaluating green silver nanoparticles as prospective biopesticides: An environmental standpoint

Malini S. Bapat<sup>a, \*\*</sup>, Hema Singh<sup>b</sup>, Sudheesh K. Shukla<sup>c</sup>, Prabal Pratap Singh<sup>d</sup>, Dai-Viet N. Vo<sup>e</sup>, Alpa Yadav<sup>f</sup>, Abhineet Goyal<sup>g</sup>, Ajit Sharma<sup>h</sup>, Deepak Kumar<sup>h, \*</sup>

<sup>a</sup> Cummins College of Engineering for Women, Affiliated to Savitribai Phule Pune University, Pune, 411052, India

<sup>b</sup> Defence Institute of Advanced Technology, Girinagar, Pune, 411025, India

<sup>c</sup> Department of Biomedical Engineering, School of Biological Engineering and Life Sciences, Shobhit University, Meerut, 250110, India

<sup>d</sup> Department of Chemistry, GLA University, Mathura, UP, 281406, India

<sup>e</sup> Institute of Environmental Sciences, Nguyen Tat Thanh University, Ho Chi Minh City 755414, Vietnam

<sup>f</sup> Department of Applied Chemistry, School of Vocational Studies & Applied Sciences, Gautam Buddha University, Greater Noida, Uttar Pradesh, 201308, India

<sup>g</sup> School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab, 144411, India

<sup>h</sup> School of Chemical Engineering and Physical Science, Lovely Professional University, Phagwara, Punjab, 144411, India

### ARTICLE INFO

#### Article history:

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Handling Editor: Derek Muir

#### Keywords:

Biopesticides

Silver nanoparticles (Ag NPs)

Antimicrobial

Agrotechnology

### ABSTRACT

The current method of agriculture entails the usage of excessive amounts of pesticides and fertilizers. The blatant use of conventional pesticides and fertilizers over several decades has led to their bioaccumulation with adverse effects on soil biodiversity and the development of resistance by pests. With the decline in clinically useful antibiotics and increase in multi drug resistant microbes, it is imperative to develop new and effective antimicrobial therapies. Growing awareness and demand for efficacious biorational pesticides are on the rise. Silver nanoparticles are widely known antimicrobials and have been in use for several purposes for a long time. This work reviews the implications of applying silver nanoparticles in agriculture and their possible consequences. The physiological and biochemical changes in plants due to the uptake of silver nanoparticles as a consequence of its morphology, capping biomolecules and method of application are comprehensively discussed in this review article. Studies on tolerance levels or stress due to silver nanoparticles by variation in concentration/doses on diverse flora and fauna are also analyzed here. Further, phytotoxicity and genotoxicity due to the metal as well as its transformation in soil, water and sludge are taken into account. We also gauge the potential of biogenic silver nanoparticles-viable antimicrobial agents for enhanced applications in agriculture as biopesticides.

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### 1. Introduction

Major challenges facing the agriculture sector today are food security, the targeted delivery of pesticides, improved seed germination, healthy plant growth, novel diagnostic devices, improvement in food quality, pest management and food storage. In this decade, nanotechnology has been introduced into agriculture, majorly in pesticides and pest control formulations (Chen et al., 2014). It is the ability to revolutionize modern-day agriculture and make an impact on various aspects in the near future. At the nanoscale, materials show several outstanding properties owing to increased surface area and quantum size effect re-

sulting in higher activity. Due to these unique features, they can play an important role in biological processes since several biomolecules also function at nanoscale. Diverse materials synthesized on nanoscale such as TiO<sub>2</sub>, ZnO, SiO<sub>2</sub>, FeO, CNTs, alumina and metal nanoparticles like Au, Ag, Zn or Cu, polymer capsules, chitosan, etc. have shown promising results in agriculture (Hasanpour et al., 2015; Ghormade et al., 2011; Adhikari et al., 2015). Metal nanoparticles with at least one dimension less than 100 nm have a huge potential application in nanotechnology (Cao et al., 2004). These can be synthesized by a number of physical, chemical and biological methods and conjugated with ligands, antibodies and polymer chains (Fajardo et al., 2012; Khodakovskaya et al., 2013). Such engineered nanomaterials (ENMs) have opened up avenues of various applications in biomedical, food processing and agrochemical industries (Jeyaraj et al., 2012). Silver is known to be an antimicrobial used for treating wounds due to its broad-spectrum toxicity and low toxic effects to humans. Numerous types of

\* Corresponding author.

\*\* Corresponding author.

E-mail addresses: malini.bapat@cuminscollegeforwomen.ac.in (M.S. Bapat), deepak.sharma99967@gmail.com (D. Kumar).

<https://doi.org/10.1016/j.chemosphere.2021.131750>

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& Tech  
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E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

Date- 02/02/2021

The Principal/Manager

श्री. ए. के. सिंह, ए. ई. टी. मेरठ  
जयवंत कॉलोनी, मालियाना, मेरठ।

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship, in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from .....15/1/2021.....to.....16/5/2021..... (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- ममता शर्मा

Father's name- लक्ष्मण सिंह

Roll No.- MRT19UGBED015

Thanking you

Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

Madhu  
P.T. Sec. School  
Jyawan Colony, Maliyana  
Meerut.

Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250114



वी०के० एस० हायर सैकण्डरी स्कूल  
मलियाना मेरठ।

अनुभव प्रमाण पत्र

विषय:- B.Ed Student 'S Internship Programme.

प्रार्थी ममता रानी पुत्री श्री लक्ष्मण सिंह माता संतोष देवी निवासी :-  
पत्नि अमित, 44 होली चौक मलियाना मेरठ। दिनांक  
15/01/2021 से 16/05/2021 तक विद्यालय में इटर्नशिप की  
टीचिंग का कार्य किया। इनका कार्य सतोष जनक रहा। मैं इनके  
उज्ज्वल भविष्य की कामना करती हूँ।

*Mishra*

हस्ताक्षर प्रधानाचार्य जी

*Shobhi*

Registrar  
Shobhi Institute of Engg. & Tech.  
University  
Wazirpur, New Delhi-250114



IIT Roorkee  
Roorkee 247667  
India  
Phone: 91-1332284802 or 91-8979602679  
Email: arup.das@me.iitr.ac.in or arupdas80@gmail.com  
Webpage: [https://www.iitr.ac.in/~ME/Das\\_Arup\\_Kumar](https://www.iitr.ac.in/~ME/Das_Arup_Kumar)

---

**From:** "Subrata Das" <subrata.das@shobhituniversity.ac.in>  
**To:** "Arup KumarDas" <arup.das@me.iitr.ac.in>, "Dr. Arup Kumar Das" <arupdas80@gmail.com>  
**Sent:** Saturday, September 4, 2021 11:43:02 AM  
**Subject:** Re: Regarding microfluidic system development

Dear Dr. Arup Das,

It was nice to talk with you.

I am very much interested to develop diagnostic and drug screening device. The idea is based on our previous research. Need your kind suggestions regarding microfluidics device development for blood leukocyte function tests and drug screening.

Blood leukocytes, specifically neutrophil and macrophages become dysfunctional in many immunological diseases. Quick identification of the defective cells from whole blood is necessary to determine disease progression. There are no clinically validated laboratory tests for neutrophil and macrophage function that limits treatment intervention.


Recently, we have developed an engineered biomaterial that can be internalized into any cell type by phagocytosis. After internalization, cells become increased in size due to massive cell vacuolation. The size change or phagocytosis index upon particle treatment in cells is related to the change in electric potential of the cell compared to without treatment. This principle can be applied for development of diagnostic device to measure phagocytosis index of blood samples. Also, the device can be used for screening of single molecules to identify therapeutic drugs against immunological disorders as well as viral infection.

I am attaching a recent publication on microfluidics device for leukocyte function tests.

Please let me know your view. If you are interested, I can come to your laboratory for more discussion.

Thank you so much.

Regards,  
Subrata K Das,  
Biomedical Engineering,  
Shobhit University,  
Meerut.

  
Registrar  
Shobhit University  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





On Fri, Aug 20, 2021 at 1:22 AM Subrata Das <subrata.das@shobhituniversity.ac.in> wrote:

Dear Dr. Arup Das,

I am Dr. Subrata K Das, Associate Professor from Shobhit University, Meerut, UP, writing to you regarding development of microfluidic system. Currently, we have developed an engineered particle that can internalize in any cell types and make massive cell vacuolation, but no cell death was observed. After cellular uptake, the particle becomes degraded gradually in the vacuole and at the end the vacuole disappears from cells. Basically, the engineered particles enter the phagolysosomal system of cells by phagocytosis and become degraded in the acidic condition of the vacuolar system. Using this system, we have established a drug screening assay system to identify inhibitors interfering endolysosomal trafficking. Currently, I am trying to develop a blood based diagnostic assay kit for sepsis disease. I am very much interested in developing a microfluidic system using the engineered particle. Please suggest me regarding this.

Previously, I worked at BREF Biotek, IIT Kharagpur (2004-2010), Postdoc at University of Utah (2010-2016), Senior Scientist at Patanjali Research Institute, Haridwar (2016-2019), Visiting Scientist at SMST, IIT KGP for last one year, presently I am working at Shobhit University.


I need your kind suggestion regarding microfluidic system. Please reply me My phone no- 7300869547.

Thank you so much.

Regards,  
Subrata K Das

## 2 attachments

 SreePV Research grant Proposal\_ phagocytosis assay.docx  
42K

 SreePV\_2021\_Bio of investigators\_AKDas.docx  
35K

Subrata Das <subrata.das@shobhituniversity.ac.in>  
To: "Dr. Alpana Joshi" <alpana.joshi@shobhituniversity.ac.in>

Tue, Dec 28, 2021 at 3:31 PM

----- Forwarded message -----

From: **Arup Kumar Das** <arup.das@me.iitr.ac.in>  
Date: Tue, Oct 5, 2021 at 9:50 PM  
Subject: Re: Regarding microfluidic system development  
To: Subrata Das <subrata.das@shobhituniversity.ac.in>  
Cc: <arupdas80@gmail.com>

Dear Dr. Das,

Thanks for contacting me. I will be happy to host you on 7th October. Please visit two phase flow and instability lab at Mechanical and Industrial Engineering, IIT Roorkee.

Kindly let me know if any other information needed for your proposed visit.

Regards,

Dr. Arup Kumar Das  
Associate Professor  
Department of Mechanical and Industrial Engineering  
IIT Roorkee  
Roorkee 247667  
India  
Phone: 91-1332284802 or 91-8979602679  
Email: arup.das@me.iitr.ac.in or arupdas80@gmail.com  
Webpage: https://www.iitr.ac.in/~ME/Das\_Arup\_Kumar

----- Original Message -----

From: Subrata Das <subrata.das@shobhituniversity.ac.in>  
To: Arup Kumar Das <arup.das@me.iitr.ac.in>, arupdas80@gmail.com  
Sent: Mon, 04 Oct 2021 12:29:01 +0530 (IST)  
Subject: Re: Regarding microfluidic system development

Dear Dr. Arup Das,

As per telephonic conversations, we are very thankful to you for giving us an opportunity to visit your laboratory. We are planning to visit your laboratory on 07/10/2021 to discuss about future collaborative projects.

Thank you so much.

Sincerely,  
Dr. Subrata K Das.  
Associate Professor,  
Biomedical Engineering,  
Shobhit University, Meerut, UP  
Phone no- 73008695r7

On Sun, Sep 5, 2021 at 1:17 PM Arup Kumar Das <arup.das@me.iitr.ac.in> wrote:

> Dear Dr. Das,  
>  
> Thanks for writing to me. The work is quite interesting. We can fabricate  
> similar channels in laboratory and study. Please make a plan to visit my  
> lab.  
>  
> Regards,  
>  
> Dr. Arup Kumar Das  
> Associate Professor  
> Department of Mechanical and Industrial Engineering  
> IIT Roorkee  
> Roorkee 247667  
> India  
> Phone: 91-1332284802 or 91-8979602679  
> Email: arup.das@me.iitr.ac.in or arupdas80@gmail.com  
> Webpage: https://www.iitr.ac.in/~ME/Das\_Arup\_Kumar  
>  
> -----  
> \*From: \*"Subrata Das" <subrata.das@shobhituniversity.ac.in>  
> \*To: \*"Arup KumarDas" <arup.das@me.iitr.ac.in>, "Dr. Arup Kumar Das" <  
> arupdas80@gmail.com>  
> \*Sent: \*Saturday, September 4, 2021 11:43:02 AM  
> \*Subject: \*Re: Regarding microfluidic system development

[Quoted text hidden]

  
Registrar  
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(Deemed to be University)  
Meerut, India

B.Tech  
2019-2021



# An Inventory Control Problem for the Lifetime Effect with Trade Credit

Manindar Singh<sup>1</sup>, Vipin Kumar Tyagi<sup>2</sup>, Ruchi Goel<sup>3</sup>

<sup>1,2</sup> SBAS, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, U.P., India.

<sup>3</sup> D.N. (PG) College, Meerut, U.P., India.

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**Abstract**— In this competitive world each company try to entice their client. Trade credit is a major tool in this scenario. Giving credit in trade help to boost the sales. This article presents an inventory model studying the credit policy which is optimal to use. Under this model, we have created a replenishment policy with the effect of lifetime. Lead time is taken into consideration which is vague in nature, and the demand rate is assumed to be price sensitive. Mathematical formulation has been developed and the theoretical results are illustrated through numerical examples. In the End, the sensitivity analysis is stated to examine the effect of the various parameters.

**Keywords**- Inventory, non-instantaneous, deterioration, price-sensitive demand, trade credit, uncertain lead time

## I. INTRODUCTION

Inventory is very important & essential part of business. For running a business in profitable manner it's important to know proper knowledge of inventory otherwise it creates a huge loss in business, many companies start using many software like ERP system to make a regular check on inventory. It will be clearer with the example, "Now a days we have grocery market in every city they have a regular check on their inventory what product are short. Which product is required more? Whether they have that product either inventory room or not.

As per the demand of customer it is important to maintain their inventory because customer will not wait for you. On the other hand, there are many businesses which run on price. In short, we can say price sensitive product. Their demand is also up & down as per their prices up & down. Like gold & silver market. This business is very price sensitive. Their demand increases and decrease as per their price increase or decrease. If the price is low, the demand will increase while the demand starts to decrease if the price is high.

Deterioration plays a very important role in an industry. There are some items or raw material which are used for finished goods which deteriorate day by day. Their self-life is either for day/week/month/year. If we talk about fast moving consumer durable (FMCG) their life cycle is very small. So, in this case we cannot keep a huge stock either in raw form or in finished goods. We must set a limit up to which limit we can keep a stock. Wastage in any form become a part of loss. However, there are a lot of products which does not start to deteriorate from the beginning but after some time. The phenomenon is called non instantaneous deterioration and is gaining justifiable attention from the researchers and the practitioners. In recent years Shah and Naik (2018) have developed their model having the price dependent demand and non-instantaneous deterioration. Thereafter, Liao et al. (2020) have also developed their model with non-instantaneous deterioration.



UDISE Code - 10190404015

School Code - SAM/TAJ/07

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N.H.-28, Tajpur (Samastipur)

Ref: 15/21


Date: 22<sup>nd</sup> May 2021

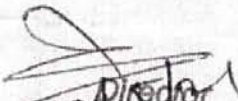
## EXPERIENCE CERTIFICATE

*This is to certify that Miss Komal Kumari, D/o Mr. Navin Chandra Singh has worked in our school as a teacher in the terms of getting internship for four months from 21<sup>st</sup> January 2021 to 20<sup>th</sup> May 2021.*

*She taught Social Science from VI<sup>th</sup> to VIII<sup>th</sup> classes. She has shown the best possible result with good academic performance.*

***We wish for her bright future and good luck in her career.***

  
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Chanakya International School  
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Has completed internship in the department of

**Bio Medical**

at Max Super Specialty Hospital, Saket, New Delhi

from 11<sup>th</sup> June 2021 to 10<sup>th</sup> May 2022

Dr Vinita Jha  
SVP, Personnel & Education  
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# The effect of lifetime on learning and forgetting in a supply chain inventory model with a service level constraint

Manindar Singh<sup>a</sup>, Vipin Kumar Tyagi<sup>a</sup>, Ruchi Goel<sup>b</sup>, Sunil Kumar<sup>c,\*</sup>

<sup>a</sup>SBAS, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, India

<sup>b</sup>D.N. (PG) College, Meerut, India

<sup>c</sup>Department of Mathematics & Statistics, Gurukula Kangri (Deemed to be University), Haridwar, India

## ARTICLE INFO

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Available online xxxx

### Keywords:

Supply chain

Service level constraint

Learning and forgetting

## ABSTRACT

A supply chain inventory model for decaying goods has been established in this paper, assuming that the decaying items have a maximum life period. Uncertain Lead time is assumed taking into account the effect of learning-forgetting on ordering costs. Constraint on the quality of service is incorporated. Mathematical formulation has been performed for both the manufacturer and the supplier. Numerical examples are given to explain the proposed problem of seeking optimal recovery policies. Finally, a sensitivity analysis was carried out to study the influence of differences in various parameters.

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Selection and peer-review under responsibility of the scientific committee of the 1st International Conference on Computations in Materials and Applied Engineering – 2021.

## 1. Introduction

Supply chain management is the backbone of every company. In inventory management supply chain plays a very important role. From storage & managing a stock, controlling sales & fulfillment of order. There are 3 major steps to maximize the profit through inventory management: procuring, storing, delivering. Procuring the raw material for finished goods & sending to warehouses then finished goods to warehouses & finally finished goods to customers. To maximize the profit, it is very important that are supply chain management is strong. If we are weak in this segment, then we have to bear a huge loss. Many e-commerce companies work on their inventory management & supply chain management through various software. To keep a check & maximize the profits. It is important to fulfill the demand of the customer whereas it is our duty to keep a check that there should be no stock will be dead. Inventory management plays a critical role in this management of the supply chain. Goyal (1976) initially developed the field of supplier and buyer coordination. Goyal and Nebebe (2000) assessed the issue of assessing economic performance from a seller to a purchaser.

Impact of life plays a very important role for business for every product. Lifetime value is an estimation of the average income that

the consumer can receive as a customer during his or her lifetime. Customer's life in business, his life in jobs. The problem of handling declining inventories is difficult for a number of reasons, since the life of the produced product is limited and begins to deteriorate after it is manufactured. Frangopol [13] developed and EOQ model for a retailer for deteriorating products and maximum lifetime and trade credit. Jungbluth et al. [14] have developed their model with reliability, deterioration, and lifetime maintenance cost optimization.

There are many constraints are at every level. In inventory we phase many challenges to overcome from them. Constraints like storage capacity, demand forecasting, raw material storage, production policy and many more. It is easy to understand more with the example in the present scenario. Due to COVID 19 situations automobile sector is totally shutdown. Plants are shutdown. So, in this situation company have to analysis through inventory where to store the product? How long they have to keep the finished product in their warehouse? What is the production capacity in future? Customer reaction after the market opens. Chen, and Krass, [7] have developed an inventory models with minimal service level constraints. Dekker, et al. [8] suggested a model on the  $(S - 1, S)$  missing revenue inventory model. BOLLAPRAGADA et al. [9] presented a two-stage inventory model with unclear demand and service level requirements. CAGLAR et al. [10] investigated a two-stage inventory method with a service constraint. Jiang, Shi, and Shen [12] offered a inventory system with service level constrained.

\* Corresponding author.

E-mail address: [glev.sunil@gmail.com](mailto:glev.sunil@gmail.com) (S. Kumar).

<https://doi.org/10.1016/j.matpr.2021.05.073>

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Shobhit Institute of Engineering and Technology  
Meerut, India  
No. Model: 250119



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Institute of Engineering & Technology

EDUCATION & EMPLOYMENT

## Activity Report

<b>Title of the Activity:</b>	Brand Awards Covid-19 ERA
<b>Date</b>	August 16, 2020
<b>Coordinator of the activity</b>	Dr. Vishal Mishra
<b>Conducting Department</b>	SHET
<b>Total Number of the Participants</b>	84
<b>Purpose of the Activity</b>	To assess effect on the education ecosystem Post Covid Era
<b>Venue</b>	SHET campus Meerut
<b>Resource collaboration</b>	Person/In i. Mr. Praveen Mehta, CEO and Principal Consultant, MAARIX, New Delhi ii. Mr. Sandeep Kumar, Senior HR & Leading Talent Acquisition Mkt. 4 India iii. Mr. R. R. Reddy, Chairman & Managing Director, M.S. Infosys Consulting Limited Hyderabad, Telangana State
<b>Financial Support</b>	Rs. 5,00,000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	Post COVID-19 pandemic, has forced the world to engage in the ubiquitous use of virtual learning. An immediate retreat to the traditions of the physical classroom is required.
<b>Feedback:</b>	Participants were acknowledged that the forced shift to online education is a moment of change and given their suggestions on how education could be delivered in the Post Covid Era.

Signature of the Programme Coordinator

Signature of the Dean/HOD/Director -

Shobhit Institute of Engineering and Technology  
NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

Registrar  
Shobhit Institute of Engineering & Tech  
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NH-58, Modipuram, Meerut-250110

Date: 16/08/2020  
Page No: 1/1

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पत्रांक- 1528-2

दिनांक...15/07/2020...

प्रेषक :- प्राचार

प्रेषित :- सेवा में,

विषय :-

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**Shobhit Institute of Engineering & Technology, Meerut**

**B.Ed- II<sup>nd</sup> Year** की छात्रा है इस विद्यालय में इन्होंने शिक्षिका इन्टरशिप

के अन्तर्गत 21 दिसम्बर 2019 से 20 अप्रैल 2020 (4 माह) का शिक्षण कार्य की है।

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To,

The Principal/Manager

Date- 13/01/2021

.....  
Mr. Santosh Kumar  
Chitransh Public School, Bonda

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 15/01/2021 to 15/05/2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.


Name- Monica Gupta


Father's name- Santosh Kr. Gupta

Roll No.- MRT1906BED050

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
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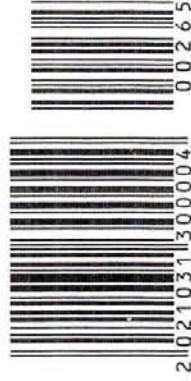
  
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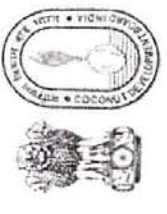
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on "Global Approaches in Natural Resource Management for Climate Smart Agriculture (GNRSA-2020)  
during Pandemic Era of COVID-19" held at Conference Hall, Shobhit Deemed University, Modipuram,  
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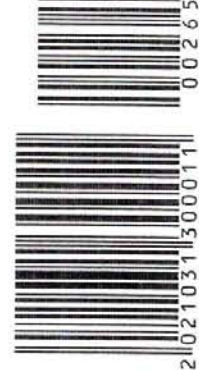
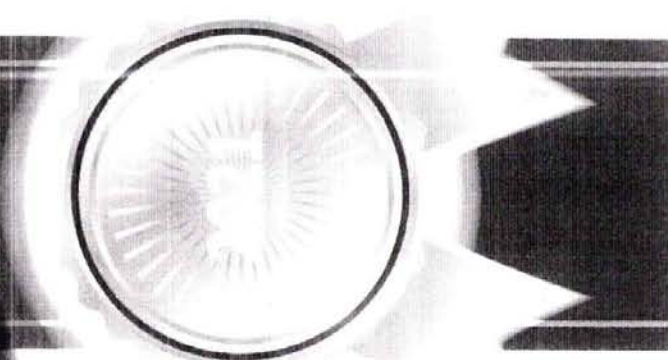


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This is to certify that Dr. Sandeep Chhabra S/o Shri S.P. Chhabra, is currently employed in KIET Group of Institutions, Ghaziabad in the capacity of Professor in the department of Mechanical Engineering. The institute has no objection for Dr. Sandeep Chhabra to work as Guide of Mr. Ashwani Kumar and Mr. Mukesh Kumar who is pursuing Ph.D from Shobhit University.

We allow him to guide Ph.D candidates at Shobhit University, Meerut, Uttar Pradesh.

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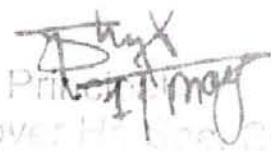
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Ref. No. GSHS/18/168

Dated: 17/8/2022

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शोभा इन्सटीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी  
डीम प्रोविजरी मेरठ के आयुष मदान, सहायक अध्यापक,  
डिपार्टमेंट वायोटेक्नोलॉजी में ग्राम लखवाया, -रसूलपुर  
मेरठ उ०प्र० में विद्यार्थियों को कोविड-19 से बचाव  
के बारे में, विद्यालय की मे उपरिधत दाल-दालाओं  
मस्क, हेण्ड सैनिटाइजर और दूरी की जानकारी दी।

  
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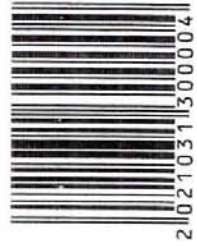
  
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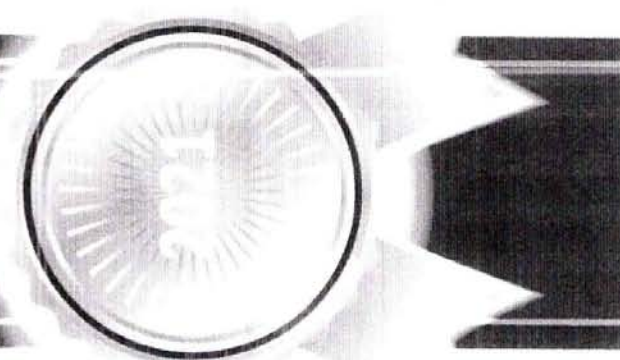


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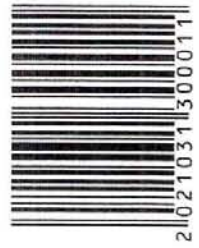
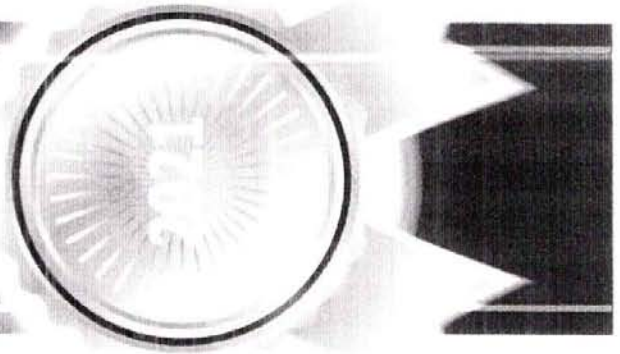


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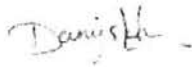


**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Lalit Kumar of M.Com. (Banking & Finance) of Shobhit Institute of Engineering & Technology, Meerut has successfully completed internship during 1-July-2020 to 12-August-2020 at **Institute For Engineering Research and Publication (IFERP)**.

The Project on evaluation fulfils all the stated criteria and the student's findings are his original work.

I hereby certify his work is Excellent to the best of my knowledge.



---

Ms. Daniya Khan

HR- IFERP

  
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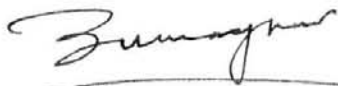
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## To Whom it Concern

This is to certify that Mr. Rajesh Pandey, Shobhit University, Meerut is working on collaborative activity related to new software development with our technical team. This collaboration is effective from October, 2020 to November, 2021 and will be helpful to enhance the technical skills among the staff and troubleshooting of the softwares too.

Regards



Director

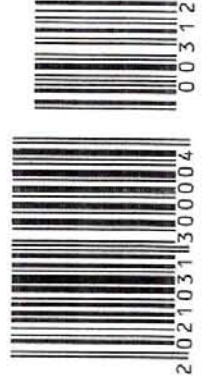
  
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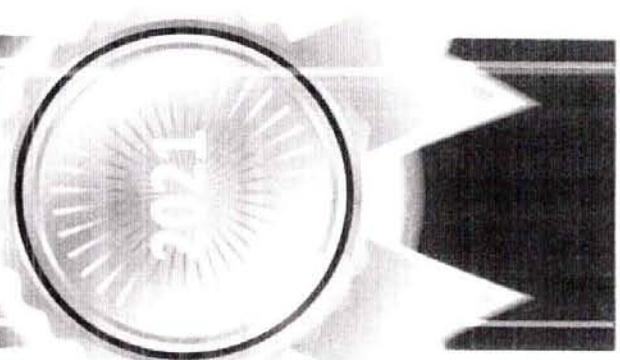


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Prof. Dr. Shiv Kumar  
CEO Chair  
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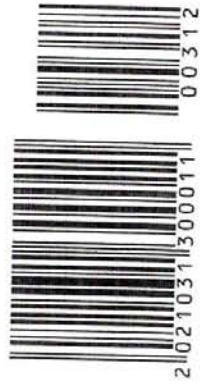
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Shiv Kumar  
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NITRR

250118



Director Chair  
**Dr. Shiv Kumar**

Date: 14-08-20

**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Tarun Singh pursuing LL.B (Legal Studies) at Shobhit Institute of Engineering & Technology, Meerut has completed an internship at **Jotwani Associates** from 15-07-20 to 14-08-20 at the position of IP Consultant.

We found his sincere, hardworking, technically sound and result oriented.

We wish his all the best for her future.

Warm Regards,



---

Ms. Sadaf

HR- **Jotwani Associates**



Shobhit Institute of Engineering & Tech  
(University)  
Meerut-250118

Jotwani Associates, 81, National Park,  
Lajpat Nagar, New Delhi – 110 024. India  
+919730049704  
contact@jotwani.com





**INTERNSHIP CERTIFICATE**

This is to certify that Mr. Vinay Kumar student of MCA at Shobhit Institute of Engineering & Technology, Meerut has completed 95 days internship at our organization from 21-01-20 to 25-04-20 as a Web Developer – Intern.

During the internship we found him work is very good.

We like to wish him for future endeavor.

---

**Ms. Aina Khan**  
**HR- Payiza**



A1-C , Ground Floor, A Block, Sector 16, Noida, Uttar Pradesh  
support@payiza.tech | +91 9811716213



**Shobhit**  
Institute of Engineering & Technology

Deemed to be University  
Meerut, Uttar Pradesh, India

EDUCATION EMPOWERS

Shobhit Institute of Engineering & Technology  
Deemed to be University  
NH-58, Meerut, Uttar Pradesh, India  
www.shobhituniversity.ac.in

Ref: SU/RO/ADS/5/2021

Dated: 19<sup>th</sup> January, 2021

To,

**Mr. Vipin Kumar**

Assistant Director, AICTE

Vasant Kunj, New Delhi

e.mail- [vipin\\_rajv4u@gmail.com](mailto:vipin_rajv4u@gmail.com)

M- 9761800624, 8077911545

**Sub: NOC for accessing facilities related to Mechanical Engg. Department- reg.**

Dear Mr. Vipin Kumar,

1. Please refer to your letter dated 15<sup>th</sup> January, 2021.
2. It is submitted that this University has "No objection" for accessing the facilities of the Department of Mechanical Engineering of this University to carry out research work in the field of **Polymeric Composite**.

Yours Sincerely,

*Ganesh*  
**Dr. Ganesh Bhardwaj**  
Offg. Registrar



Copy to :

1. **The Dean**  
School of Engineering  
Shobhit Institute of Engg & Technology  
(Deemed to-be University), Meerut
2. **The Coordinator**  
Department of Mechanical Engineering

- for info, please

*h*  
Registrar  
Shobhit Institute of Engg & Tech  
(Deemed to be University)  
NH-58, Meerut, UP-250112





Date: 15.01.2021

To,

VC/Registrar/Director  
Shobhit University, Meerut

Subject: - Regarding providing NOC for accessing of facilities related to Mechanical Engg. Department.

Respected Sir,

I, **Vipin Kumar**, working as Assistant Director, AICTE New Delhi. I want to draw your kind attention to the notification approved by IIT Roorkee's Senate (in its 74<sup>th</sup> meeting held on 14<sup>th</sup> Aug 2018) regarding guidelines for the candidate having extensive experience for admission to Ph.D. (Part-Time) Program. In this connection, I am seeking admission for Ph.D. (Part-Time) Program.

I want to pursue research work in the field of Polymeric Composite. For this purpose, I need a **No Objection Certificate** from your esteemed Institute for accessing the facilities related of Mechanical Engineering Department.

So, you are kindly requested to provide me the NOC for the aforesaid purpose.

I am looking forward for your kind support and prompt action.

Thanking You in anticipation.

With Regards


  
(Vipin Kumar)

Assistant Director, AICTE

Vasant Kunj, New Delhi

E-mail: [Vipin.rajv4u@gmail.com](mailto:Vipin.rajv4u@gmail.com)

Mob No. 9761800624, 8077911545

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-50, Meerut, U.P. Pin-250119

**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Vipin Kumar, a student of Shobhit Institute of Engineering & Technology, Meerut has successfully completed 95 days long internship programme (effective from 25-01-2021 to 30-04-2021) at **BioLeagues**. During the period of his internship programme with us, he found punctual and hardworking.

We wish him every success in life.

Warm Regards,



Ms. Harshita Dutt

HR- Bioleagues

  
Registrar  
Shobhit Institute of Engineering & Technology  
Meerut-250110

& Tech  
Meerut-250110

**CLUB**  
FACTORY

Date: 30-Apr-2021

**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Vipul Kumar, a student of Shobhit Institute of Engineering & Technology, Meerut has successfully completed 95 Days internship from 25-Jan-2021 to 30-Apr-2021 at **Club Factory**.

During the internship he was found punctual, hardworking & sincere to work.

We wish him good luck and look forward for brilliant success in his career.

Warm Regards,



**Mr. Kavinder Singh**

**HR- Club Factory**

Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to-Be University)  
NH-58, Modipuram, Meerut-250114



A-16, 1st Floor, Vasant Kunj Marg, Aruna Asaf Ali Marg,  
Outab Institutional Area, New Delhi-110067



**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Virendra Kumar a student of Shobhit Institute of Engineering & Technology, Meerut has successfully completed 45 days long internship programme, effective from 15-07-20 to 29-08-20 at **Prihas Technologies**.

He was found sincere & hard working during this tenure.

We wish him all the best for his future endeavours.

Sincerely,

---

Ms. Harshita Dutta

HR-Prihas Technologies

Registrar  
Shobhit Institute of Engineering & Tech

Meerut-250103



DR. R.S. Mishra,  
Retd. Associate Professor C.S.S.S.(P.G.), College, Machhra, Meerut  
Address: H. No. 510 Phool bagh Colony, Meerut-250002  
Phone: 7980242293

Presently  
Executive  
Editor of  
The  
Journal of  
Pedagogy  
and  
Education

To,  
The Dean,  
School of Education,  
Shobhit University, Meerut-250110 (U.P.).


Dated:21-06-2021


Sub: Consent Letter to be a Co-supervisor for Mrs Neeru Singh, PhD student to guide her research work regarding.

Respected Madam,

With reference to the above mentioned subject, I wish to inform you that I am willing to accept Mrs Neeru Singh W/o Shri Murari Lal as my PhD student and for guiding her research work leading to PhD degree of School of Education, Shobhit University, Meerut-250110 (U.P.). I will guide her for the entire duration of her research work and will Co-supervise her work throughout the research process. Following is the proposed title of her research project "A study of emotional intelligence and interpersonal relationship of B.Ed. students and their impact on academic performance and teaching skills"

Thanking you

  
Yours Sincerely

  
Dr. R.S. Mishra  
Retd. Associate Professor  
C.S.S.S. (P.G.), College,  
Machhra, Meerut

  
Registrar  
Shobhit University  
(College of Education)  
NH-35, Meerut  
Meerut-250110



Date: 10-02-21

**TO WHOM IT MAY CONCERN**

This is to certify that Ms. Akarshak Mishra, pursuing LL.B (Legal Studies) at Shobhit Institute of Engineering & Technology, Meerut has completed an internship at **Ennoble IP Pvt. Ltd.** from 11-01-21 to 10-02-21 at the position of Junior Associate Intern.

We found her sincere, hardworking, technically sound and result oriented.

We take this opportunity to thank her and wish her all the best for her future.

Warm Regards,



Ms. Farzana Sultana

HR-Ennoble IP



info@ennobleip.com

B-17, Sector 6, Noida, Uttar Pradesh  
(201301)

0120 421 0639



  
Registrar  
Shobhit Institute of Engineering & Technology  
(Deemed to be University)  
NH-58, Greater Noida, Uttar Pradesh

Date: 03-02-21

**TO WHOM IT MAY CONCERN**

This is to certify that Mr. Ankur Katariya, pursuing B.B.A. LL.B. (Legal Studies) at Shobhit Institute of Engineering & Technology, Meerut has completed an internship at **Ennoble IP Pvt. Ltd.** from 04-01-21 to 03-02-21 at the position of IP Intern.

We found him sincere, hardworking, technically sound and result oriented.

We take this opportunity to thank him and wish him all the best for her future.

Warm Regards,



Ms. Farzana Sultana


HR-Ennoble IP

info@ennobleip.com

B-17, Sector 6, Noida, Uttat Pradesh  
(201301)

0120 421 0639



  
Registrar  
Shobhit Institute of Engineering & Technology  
Meerut  
250110

# किसान इण्टर कालेज

खरड मु0 नगर

पत्रांक २१/११/६१.....

दिनांक... 10.06.2021.....

मुझे यह बताने के लिए आति धन्य का अनुभव हो रहा कि हमारे विद्यालय एवं शोभित विश्वविद्यालय के संयोजन से शिक्षा एवं स्वरोजगार के विभिन्न आयामों को विविध क्षेत्रों में शोभित के अवसर पर व्याख्यान का आयोजन विभिन्न माह में किया गया। इस विषय में विशेष योगदान शोभित विश्वविद्यालय के शिक्षिका श्रीमती बिना शर्मा को भेजा गया। इस तरह के आयोजन से हमारा विद्यालय शोभित विश्वविद्यालय को आभार प्रकट करता है। इस तरह का कार्यक्रम विश्वविद्यालय के द्वारा आने वाले वर्ष से भी विद्यालय एवं विश्वविद्यालय के संयोजन से आयोजित किया जायेगा।

Registrar  
Shobhit  
(Deem  
NH-58

प्रधानाचार्य 10.06.21  
किसान इण्टर कालेज  
खरड (मु0 नगर)



☎ : 2601067, 9927201771



प्रेषक :  
प्रबन्धक प्रधानाचार्य  
डॉ० अम्बेडकर इण्टर कॉलेज  
तेजगढ़ी, गढ़ रोड, मेरठ।

सेवा में,  
.....  
.....

दिनांक 14.6.2021

पत्रांक .....

विषय : इन्टरनेशनल युवाधन

प्रमाणित किया जाता है कि जूही अग्रवाल पुत्री  
श्री राजकुमार अग्रवाल जी. ए. ए. ए. ए. ए. शोभित  
विश्व विद्यालय मेरठ ने इस विद्यालय में  
दिनांक 15.01.2021 से 15.05.2021 तक  
इन्टरनेशनल कार्य किया है, इनका शिक्षण  
कार्य सन्तोषजनक रहा है।  
ये इनके उच्चतर अधिष्ठान का कामना  
करता है।

(Dr. R. P. SINGH)  
Principal  
Dr. Ambedkar Inter College  
Tej Garhi, Meerut  
14/6/2021

Registrar  
Shobhit Institute of Engg. & Tech  
(Deer  
NH-53, Meerut, U.P. - 250113

# IMS ENGINEERING COLLEGE

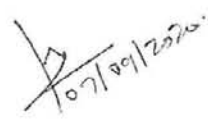
NH#24, Adhyatmik Nagar, Ghaziabad

**Dr S N Rajan**  
Professor & Head,  
Dept of IT

## NO OBJECTION CERTIFICATE

This is to certify that I have NO OBJECTION in guiding Mr Neeraj Kumar Sirohi, as an external supervisor, in his research work for Ph.D Degree at Shobhit Institute of Engineering & Technology, Shobhit University, Meerut.

His topic of research is "Development of Text Summarization Model Using Neural Network with Long-Short-Term-Memory (LSTM)"

  
07/09/2020

Dr Siddhi Nath Rajan

Date: 07-09-2020



  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deer  
NH-5  
20118



TEERTHANKER  
MAHAVEER UNIVERSITY  
Moradabad (U.P.)

## COLLEGE OF LAW & LEGAL STUDIES

Proudly Presents

### *Letter of Appreciation*



Ms. Neha Bharti  
Assistant Professor  
Shobhit Deemed University

for delivering lecture

as a

Resource Person

on

*“An Insight Into Motor Vehicle Act, 1988:*

*With Special Reference to Motor Vehicle (Amendment) Act, 2019”*

on 19<sup>th</sup> June, 2021

*We would like to extend our sincerest gratitude towards you for your speech during the lecture. Your views have broadened our horizons. Please accept our appreciation for such a commendable job.*

Registered  
Shobhit  
(Deemed to be)  
University  
Moradabad-250113

PROFESSOR VIPIN JAIN  
PRINCIPAL, TMIMT



250113



Mount Litera  
Zee School  
Meerut

Great School. Great Future



Ref. No. MLZS/21-22/06/0-LTR-02

Date 16/06/2021

### INTERNSHIP CERTIFICATE

To Whom It May Concern

This is to certify that Ms. Rahil Charles D/o Francis Charles has successfully completed 4 Months (From 15/01/2021 to 15/05/2021) internship in our school. Her internship activities include Teaching, organizing of morning assembly, maintenance of attendance Register, organization of Co-curricular activities, etc.

During the period of her internship program with us she been exposed to different process was found punctual, hardworking & inquisitive. We wish her very best in all her future endeavors.

*Amit Kohli*  
16/06/2021

Mr. Amit Kohli

(Principal)

MLZS, Meerut

Principal

MOUNT LITERA ZEE SCHOOL

NH-58, Roorkee Road,

Modipuram, Meerut-250 110

Phone : 0121 2579951

School Code : 60760

Aff. No.: 2131804

*Amit Kohli*  
Registrar

NH-58, Roorkee Road ;Behind potato research centre, Modipuram, Meerut, 250110 (Uttar Pradesh), India  
www.mountliteralschool.org | mountliteralschool@gmail.com

Welcome No : +91-121-2579951 | For Admission : +91 9760420251 | For Transport : +91 8265957035



Date: 18-01-2021

**CERTIFICATE**

This is to certify that Ms. Sandhya Tyagi, a student of Shobhit Institute of Engineering & Technology, Meerut has successfully completed internship with us from 06-07-2020 to 24-08-2020.

She was working as Intern - Commercial Executive with us.

During the period of her internship, she found to be sincere, hardworking and a keen learner.

We wish her success in life.

Warm Regards,

---

**Mr. Gaurav Gupta**  
**HR- IALM**

Shobhit Institute of Engineering & Technology  
Meerut  
250114



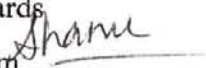
To,  
Dr. Divya Praksha  
Shobhit University, Meerut

Acceptance to the invitation

Thank you for inviting us as a resource person during the Wellbeing Summit organizing on 09/11/2020. Ms Shrishthi Sharma, Biomedical Engineering would be the resource person from our side. She will help you in the management of the therapeutic devices.

Thank you

with Regards,

Shanu Sam 

Head, Yashoda Superspeciality Hospital  
Ghaziabad, Uttar Pradesh



  
Registrar

Shobhit Institute of Engineering & Technology  
(Deemed to be University)

NH-58, Meerut



**TO WHOM IT MAY CONCERN**

This is to certify that Ms. Sona Rajput, of Master of Computer Application of Shobhit Institute of Engineering & Technology, Meerut Shobhit Institute of Engineering & Technology, Meerut has successfully completed 95 Days internship programme, Dated from 15-01-21 to 20-04-21 at **EbizzBox**.

I hereby certify her work was satisfactory to the best of our knowledge.

Warm Regards,



Mr. Kavinder Singh

HR-EbizzBox Online



Professor  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250114





## TO WHOM IT MAY CONCERN

This is to certify that Ms. Sonika Rani, a student of Shobhit Institute of Engineering & Technology, Meerut, India has successfully completed 95 Days long internship programme, effective from 18-01-21 to 23-04-21 at Council of Industrial Innovation and Research (CIIR). During the period of her internship programme with us her performance at the work was satisfactory.

We wish him all the best for his future endeavours.

Best Regards,

A handwritten signature in blue ink, appearing to read 'NTuteja' with a flourish underneath.

Mr. Nitish Tuteja

HR-Council of Industrial Innovation and Research (CIIR)

A handwritten signature in blue ink and a faint purple stamp. The stamp contains the text 'Shobhit Institute of Engineering &amp; Technology, Meerut-250112'.

g. & Tech  
(y)  
Meerut-250112



✉ info@ciir.in

📍 1st Floor, B-17, Sector 6,  
Noida, UP (201301)

☎ +91 9958166931





# KIET

GROUP OF INSTITUTIONS

(A Technical Campus approved by AICTE)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow

An ISO-9001 : 2008 Certified Institute



07/01/2021

To.

Prof. (Dr.) Amar P. Garg  
The Vice Chancellor,  
Shobhit Deemed University,  
Merrut., Uttar Pradesh

Subject: No objection Certificate

Ms. Surbhi Saroha is pursuing her Ph.D from Shobhit Deemed University.

I do not have any objection to guide her as a Ph.D supervisor.

I have already guided 8 Ph.D scholars. Currently, I am guiding 4 students at Dr. A. P. J. Abdul Kalam Technical University, Lucknow.

  
Dr. Anil K. Ahlawat

Prof. & Dean (Academics)

KIET Group of Institutions.

  
Shobhit Institute of Engg. & Tech  
Merrut, U.P.  
Tel: 2501112



★ KIET School of Engg & Technology   ★ KIET School of Management   ★ KIET School of Computer Application

KIET School of Pharmacy

1/2 KIV STONE, GHAZIABAD-MERUT ROAD, GHAZIABAD - 201 209 (U.P.) TEL. 0120-2675314, 2675315, 01232-227976, 227990, 238223, 228224  
TELEFAX : 0120-2675091, Website : www.kiet.edu / www.kietpharmacy.com

**TO WHOM IT MAY CONCERN**

This is to certify that Ms. Uma Rani, of Master of Computer Application of Shobhit Institute of Engineering & Technology, Meerut Shobhit Institute of Engineering & Technology, Meerut has successfully completed 95 Days internship programme, Dated from 15-01-21 to 20-04-21 at **EbizzBox**.

I hereby certify her work was satisfactory to the best of our knowledge.

Warm Regards,



Mr. Kavinder Singh  
HR-EbizzBox Online

  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Meerut)  
Nirman Vihar, Delhi-110092  
e-250111





**TO WHOM IT MAY CONCERN**

This is to certify that Ms. Vaishaly, a student of Shobhit Institute of Engineering & Technology, Meerut, has successfully completed one month long internship programme (effective from 2/10/2021 to 1/11/2021) at **Association of Education Training & Research Institutes (ASSOED)**. During the period of her internship programme with us her performance at the work was Very Good.

The Job title was Intern - Quality Engineer.

We wish her all the best for her future endeavours.

Warm Regards,

Mr. Aayush Gupta

HR-Association of Education Training and Research Institute

  
Shobhit Institute of Engg. & Tech  
(Meerut)  
Meerut-250115





# Guru Govind Singh Senior Secondary School

(Affiliated to C.B.S.E., New Delhi)

**Rohta, Meerut (U.P.)**

योग: कर्मसु कौशलम्

Dated: 15/06/2021

## To Whom It May Concern

This is to certify that **Ms. Vishakha D/o Mr. Balveer Singh** has done her internship in Teaching [**B.Ed.**], Shobhit University from [15 January 2021] to [15 May 2021] under the guidance of **Mrs. Shaloo Malik** (Principal, Guru Govind Singh Public School, Rohta, Meerut.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance satisfied our expectations and she was able to complete her internship on time.

We wish her all the best for her upcoming career.

  
PRINCIPAL  
Guru Govind Singh Sr. Sec. Public School  
Rohta (Meerut)

  
Registrar

Shobhit University, Rohta, Meerut, U.P. & Tech



VILLAGE ROHTA, DISTT. MEERUT. PHONE : 9412432188, 8171719350  
E-mail : ggpsr@gmail.com | Website : www.ggpsr.org

# GLOBAL MEDICAL ENGINEERS

KAMBAGH SIKKA ROAD, CHENNAI - 600 076

Mr. Subashir Hassan Das

Shobhit Institute of Engineering & Technology

(Deemed to be university), Meerut (UP)

Date: 12/12/2020

We are delighted that you will be accepting our fellowship position in the Field from 15<sup>th</sup> Dec 2020 and would like to offer you a job and we have entered for you the terms of the contract. Your appointment as a fellow will be for the term of one year and would include a stipend of Rs. 20,000/- during the fellowship for the period of one year and be eligible for award in the future; you must maintain a satisfactory performance record during the year as a full time. Due to the nature of the company growth, the offer for the future year is contingent upon the availability of company funds. Please sign the duplicate copy of this letter indicating your acceptance or declination of this offer and return it to the office. As soon as possible.

Accept the fellowship as stipulated in this letter.

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

12/12/2020

Managing Director  
Global Medical Engineers



12/12/2020



Shobhit Institute of Engg. & Tech.  
(Deemed to-Be University)  
NH-58, Kambagh Sikkapuram, Meerut-250110



Shobhit Institute of Engg. & Tech  
(Deemed to-Be University)  
NH-58, Kambagh Sikkapuram, Meerut-250110





Ref. No. MLZA/21-22/06/O-LTR-03

Date 16/06/21

INTERNSHIP CERTIFICATE

To Whom It May Concern

This is to certify that Ms. Neema Kaushik D/o Navendra Kaushik has successfully completed 4 Months (From 15/01/2021 to 15/05/2021) internship in our school. Her internship activities include Teaching, organizing of morning assembly, maintenance of attendance Register, organization of Co-curricular activities, etc.

During the period of her internship program with us she been exposed to different process was found punctual, hardworking & inquisitive. We wish her very best in all her future endeavors.

*Amit Kohli*  
16/06/2021

Mr. Amit Kohli  
(Principal)  
MLZS, Meerut

Principal  
MOUNT LITERA ZEE SCHOOL  
NH-58, Roorkee Road,  
Modipuram, Meerut-250 110  
Phone - 0121-2579951  
School Code : 60760  
CBSC Afl. No.: 2131806



NH-58, Roorkee Road ;Behind potato research centre, Modipuram, Meerut, 250110 (Uttar Pradesh), Indi

[www.mountliteralschool.org](http://www.mountliteralschool.org) | [mountliteralschool@gmail.com](mailto:mountliteralschool@gmail.com)

Welcome No : +91-121-2579951 | For Admission : +91-8265957035 | For Transport : +91 8265957035

Registrar  
Shobhit Mittal  
(Deen Dayal Upadhyay)  
NH-58, Modipuram, Meerut-250110



# Shobhit

Institute of Engineering & Technology  
Deemed to-be-University

EDUCATION EMPOWERS

Shobhit Institute of Engineering & Technology

(A NAAC Accredited Deemed to-be University)

NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

Date- 21 January 2021

The Principal Manager

Rashtriya Jute College

Lahar (Meerut)

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir/Madam

As per the norms of NCIE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from January to April (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name-

सिद्धेश्वर सिंह


Father's name-

श्री. हर-द्वारा सिंह

Roll No.-

MRT 19UGBED004

Thanking you

  
प्रधानाचार्य  
राष्ट्रीय इंटर कॉलेज  
लाहड़ (मेरठ)

Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Registrar  
Shobhit Institute of Engineering & Technology  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110

फोन : 01237-285368

प्रेषक :

प्रबंधक / प्रधानाचार्य

राष्ट्रीय इण्टर कॉलिज

लावड़, मेरठ

email : riclawar@gmail.com



सेवा में,

श्रीमान् \_\_\_\_\_

पत्रांक.....


दिनांक.....31.03.21

विषय :-

### प्रमाण-पत्र

प्रमाणित किया जाता है कि श्रीमती नीतू सिंह पुत्री श्री हरेन्द्र सिंह निवासी 802/63, शिवपुरम्, मोहकपुर, मेरठ ने इस संस्था में दिनांक 1 जनवरी 2021 से 31 मार्च 2021 तक अध्यापन, छात्र उपस्थिति पंजिका आदि कार्य किया तथा दिनांक 1 अप्रैल 2021 से Online कक्षा भी की।

इनका कार्य एवं व्यवहार उत्तम है। मैं इनके उज्ज्वल भविष्य की कामना करता हूँ।

  
प्रधानाचार्य  
राष्ट्रीय इण्टर कॉलिज  
लावड़ (मेरठ)

  
Registrar  
Shobh Institute of Tech  
(Deen)  
NH-58, Badli, Meerut-250114







## Memorandum of Understanding (MoU)

Between

**Shobhit Institute of Engineering and Technology (Deemed-to-be University),  
Meerut, Uttar Pradesh.**

&

**Kleeto - Next Gen Paper Solutions Pvt. Ltd**

Memorandum of Understanding  
for

**Consultancy Services by Shobhit Institute of Engineering and Technology (Deemed-To-Be  
University), Meerut, Uttar Pradesh**

This Memorandum of Understanding (MoU) is made on this the 1 day of June 2021 by and between

**Shobhit Deemed University** having its main campus address as NH 58, Modipuram, Meerut, Uttar Pradesh 250110, (hereinafter referred to as 'SUM', which expression shall include their subsidiaries, branch offices, associations, administrator, legal heirs, group institutions etc.),

and

**Kleeto - Next Gen Paper Solutions Pvt. Ltd** (Kleeto) having its offices at Plot No- 424, First Floor UdyogVihar, Phase- IV, Gurgaon- 122016 India, which expression shall include their subsidiaries, branch offices, associations, administrator, legal heirs etc.).

### 1. BACKGROUND

- 1.1. Shobhit Deemed University is a non-profit multi-disciplinary private university. It is a Deemed University under section 3 of the University Grants Commission Act, 1956 and accredited by National Accreditation and Assessment Council, with a vision to be internationally recognized as a premier Indian University with a global perspective that educates leaders who will fashion a more humane and just world.

Registrar  
Shobhit  
Meerut

Engg. & Tech  
(y)  
Meerut-250114





- 1.2. Kleeto is end to end information management solutions. Providing document management, workflow management, electronic document management, and workflow. The company is established by a group of Technical Experts. Kleeto offers comprehensive employee file management services. Other than the regular services of document pickup, retrieval, digitization etc.
- 1.3. Whereas, SUM is desirous of getting associated with Kleeto for consultancy services with the following primary objectives:
  - 1.3.1. **Information Management System**
  - 1.3.2. **Secure Storage Solutions**
  - 1.3.3. **Business Process Management**

The two parties to the MoU, with the intention of both being legally bound, accept the following terms and conditions:

## 2. Key Operational Areas of KLEETO

- 2.1. Document Digitization: Get quick and easy access to any piece of information in an organized way with our strategically designed imaging and indexing process.
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- 2.3. Document Collection and Generation System: Automate all your business requirements with the help of our document generation system enabling easy and efficient customized solutions
- 2.4. Document Inventory Management and Reporting: Have all your document inventory managed in an organized manner and get a snapshot of reports with a click of a mouse
- 2.5. Document Management Consulting: offer consulting services for all kinds of document needs ensuring a tailor-made solution catering to specific business needs
- 2.6. Offsite Document Storage and Logistics: Have all your documents stored at a remote location in a clean, organized and safe environment, which ensures real time accessibility
- 2.7. Data Backup and Retrieval: Our management system ensures a safe document's backup and retrieval process with the help of multi-layered protection feature
- 2.8. Document Tracking: Track all your documents with different versions citing modifications made per date, or by user and get a snapshot of tracking history with this service
- 2.9. Secure Shredding: Dispose your sensitive data with our management system which is compliant with data protection laws
- 2.10. Mailroom Services, Compliance Automation and Notification, Transactional Content Management & other services

## 3. Areas of the consultancy by SUM

- 3.1. To provide technical support as required by Kleeto for its operational areas as above.
- 3.2. To provide financial assistance of Rs. 36 lakhs by Kleeto for carrying our research activities.

  
Registrar  
Shri. ... & Tech  
...-25011





3.3. All other infrastructural and administrative support that would be required in seamlessly carrying on all the activities which are part of this MoU.

**4. Invoicing**

- 4.1. SUM will raise an invoice according to the type of project.
- 4.2. All such invoices will be generated as per mutual price agreed.

**5. Coordination and contact persons**

5.1. For Kleeto: The contact person at Kleeto for the purpose of services and support activities rendered under this MoU will be:  
Sunil Mahajan  
CEO, Kleeto-Next Gen

5.2. The contact person at SUM for the purpose of support activities under this MoU will be:  
  
Dr. NirajSinghal  
Director IQAC  
Shobhit Institute of Engineering and Technology (Deemed-to-be University)  
NH-58, Modipuram, Meerut, Uttar Pradesh 250110

**6. Force majeure**

In the event of non-fulfillment of the terms and conditions due to any reason of force majeure namely fires, wars, riots, strikes, natural calamities, etc., neither SUM nor Kleeto shall be held responsible for any loss or consequential loss.

**7. Breach of MoU**

Both parties to the MoU will have the right to terminate the MoU, in case the terms and conditions of the MoU are violated by either party, by giving a written notice of 3 month to the violating party.

**8. Amendment to the MoU**

The obligation of SUM and Kleeto have been outlined in this MoU. However, during the operation of the MoU, circumstances may arise which call for alteration or modifications of this MoU. These modifications/alterations will be mutually discussed and agreed upon in writing.

**9. Period of validity**

*[Handwritten signature]*  
Date: \_\_\_\_\_  
NH-58



*[Handwritten signature]*  
Registrar  
Shobhit Institute of Engineering and Technology  
(Deemed to be University)  
NH-58, Modipuram, Meerut, Uttar Pradesh 250110



This MoU shall be initially valid for 3 years from the date of signing the MoU and to be renewed subsequently by mutual consent of both the parties.

**10. Dispute resolution**

Any dispute arising with regard to any aspect of this MoU shall be settled through mutual consultations and agreements by the parties to the MoU.

*Ashok Gupta*  
P2 - Project  
For University

---

(*Neeraj*)  
Co-P2 project

For Klecto

*[Signature]*



*[Signature]*  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Meerut-250112



# BIOCHEMICAL EVALUATION OF THE BOTTLE GOURD (*Lagenaria siceraria*) FRUIT BY NONDESTRUCTIVE FOURIER TRANSFORM RAMAN AND ATTENUATED TOTAL REFLECTANCE FOURIER TRANSFORM INFRARED SPECTROSCOPY

NIDHI SHUKLA, M. N. DEO, K. N. UTTAM AND RAJIV DUTTA\*

Amity Institute of Environmental Science, Amity University Madhya Pradesh, Gwalior, MP-474005, India [NS]

High Pressure and Synchrotron Radiation Physics Division, Modular Lab, BARC, Trombay, Mumbai-400085, India [MND]

Saha's Spectroscopy Laboratory, Department of Physics, University of Allahabad, Allahabad-211002, India [KNU]

School of Biological Engineering & Life Sciences, Shobhit Institute of Engineering and Technology (Deemed-to-be-University), NH-58, Modipuram, Meerut, UP-250110, India [RD]

[\*For Correspondence: E-mail: director.sbt@gmail.com]

## Article Information

### Editor(s):

(1) Dr. Ahmed Medhat Mohamed Al-Naggar, Professor, Cairo University, Egypt.

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(1) Shalini Virani, University of Health Sciences, India.

(2) Everaldo Silvino dos Santos, Federal University of Rio Grande do Norte, Brazil.

Received: 06 June 2021

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Original Research Article

## ABSTRACT

In this study, FT (Fourier Transform) Raman and ATR FTIR (Attenuated Total Reflectance Fourier Transform Infrared) spectroscopy has been used as an emerging quality control tool to investigate the biochemical composition and changes in their content in different parts of the nutrient rich vegetable *Lagenaria siceraria*. The natural biological materials as edible vegetables are very complex in terms of their chemical composition and intermolecular interactions that occur between the different biochemicals present in the tissue matrix. The biochemical interaction depends upon the morphology and individual molecular structures of the biochemicals. This complexity appears in the vibrational spectra, investigated by optical phenomenon based technique. This study framed to evaluate the biochemicals and their distribution present in the different parts of the *Lagenaria siceraria* fruit using Fourier Transform Raman Spectroscopy (FT-Raman) and Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIR spectroscopy). Materials and Method: The FT-Raman and ATR-FTIR spectra of the different parts (exocarp, mesocarp and seed) of the *Lagenaria siceraria* fruit have been recorded in the spectral region of 400-4000 $\text{cm}^{-1}$  at a resolution of 4 $\text{cm}^{-1}$ . The Origin 8.0 software package was used for the baseline

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# Vijendra Adarsh Bal Inter College

Arjun Nagar, Chamri (Hapur)-245101

Ref No.....

Dated...10.06.2021

College Code: - 1131

## INTERNSHIP LETTER

This is to certify that **Nisha Rana D/o Mr Surjeet Singh**, a student of B.Ed (2019-2021) of Shobhit Institute of Engineering & Technology, Meerut, worked under my supervision during her internship period from **(13/01/2021-13/05/2021)** and she worked very well. I am pleased to state that she worked hard during her trainee session. The information and findings presented in the report seems to be authentic.

**Nisha Rana D/o Mr Surjeet Singh** possesses a good moral character and pleasing personality. I wish her every success in life.

**Principal**

S.K. SIROHI

Principal

V.A.B. Inter College

Chamri (Arjun Nagar) Hapur

  
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(Deer Park) Meerut  
NH-58, Meerut  
Tech  
201314



REF/HR/01/0001/ NOC /2020-21.  
Date: 13<sup>th</sup> February 2021

Mr. Nishit Sharma  
Quality Auditor,  
Analytical Food Division.

Dear Mr. Nishit Sharma,

**Sub:** NOC to Pursue Ph. D Programme.

This is reference to your request letter dated 28<sup>th</sup> January 2021 on the above mentioned subject. The Management is pleased to permit you to pursue Ph. D Programme from Shobhit University.

This to certify that you are working as a "Quality Auditor" in our Analytical Food Division since 1<sup>st</sup> Nov'2017.

Please ensure by doing so, your day to day duties and responsibilities towards the organization should not be disturbed.

Further, you are not entitled for any kind of leave for this purpose.

With best wishes.

**For VIMTA LABS LIMITED**



Dr. Srinivas B Puppala  
Vice President - HR

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Dated: 24.08.2020

To,

Sh. Nitin Sharma  
JTO (EB)  
O/o CGM, ALTTC  
Ghaziabad

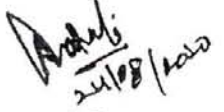
Sub: NOC for admission to pursuing Ph.D. (Part Time) in ECE for academic year 2020-21 from Shobhit University -reg.

Ref: - Your Application Dated 14.08.2020.

Permission of competent authority of ALTTC, Ghaziabad is hereby conveyed for the completion of above mentioned course.

The permission is accorded on the following condition:-

1. You will have to ensure that the pursuit of above course is not detrimental to your official duties and does in no way detract from your efficiency.
2. This permission shall not grant any immunity from transfer to any other station in the interest of BSNL.
3. BSNL has not checked the validity of the course/degree and this permission does not in any way imply that the degree awarded by the college is valid and recognized by BSNL.
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24/08/2020  
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Efficient VLSI Hardware Architecture Design and its FPGA Implementation for Deep Computational Neural Network

A SYNOPSIS

Submitted for the Registration for the Degree

of

Doctor of Philosophy

in

Electronics & Communication Engineering

By

Nitin Sharma

(Regn. No: SU/Ph.D/ECE/06/2020)

Under the Supervision of

Prof. (Dr). R.K. Jain  
Supervisor <sup>to be</sup>  
Shobhit Deemed University, Meerut, (U.P)

Dr. Kavish Seth  
Co-Supervisor  
Director (AE) Synopsis India Pvt. Ltd.,  
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MEERUT-(2020)

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Shobhit Institute of Engineering & Technology  
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Meerut

Approved by his  
external supervisor.  
Dr. Kavish Seth  
*[Signature]*

RK Jain  
28/1/2021



*[Handwritten signature]*  
*[Handwritten signature]*

# **CHANNEL ESTIMATION METHODS FOR 5G MASSIVE MIMO SYSTEMS**

*A SYNOPSIS*

*Submitted for the Registration for the Degree*

*of*

**Doctor of Philosophy**

*in*

**ELECTRONICS & COMMUNICATION ENGINEERING**

*By*

**Parul Varshney**

(Regn. No.: SU/RO/PhD./EC/2021/01)

*Under the Supervision of*

**Dr. Ritesh Pratap Singh**

Co-Supervisor

School of Electrical and Computer Engineering

Harmaya Institute of Technology, HU

Ethiopia

**Prof. (Dr.) R. K. Jain**

Supervisor

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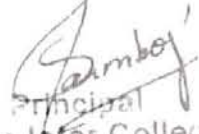
माध्यमिक शिक्षा परिषद् इलाहाबाद उ०प्र० द्वारा मान्यता प्राप्त

पत्रांक संख्या .....

दिनांक 16-5-21.....

प्रमाणित किया जाता है कि कु० पूनम चाल शं० श्री ओमपाल सिंह निवासी - ग्राम - बाननौर, भवाना (मेरठ) ने इस विद्यालय से 18-1-2021 से लेकर विद्यालय खुलने तक ऑनलाइन शिक्षण कार्य किया है। इनका कार्य व व्यवहार काफी सहयोग प्रद रहा है।

हम इनके उज्ज्वल भविष्य की कामना करते हैं।

  
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# Securing Mobile Agents Migration Using Tree Parity Machine with New Tiny Encryption Algorithm

Pradeep Kumar<sup>1(✉)</sup>, Niraj Singhal<sup>1(✉)</sup>, and K. M. Chaitra<sup>2(✉)</sup>

<sup>1</sup> Shobhit Institute of Engineering and Technology (Deemed to Be University), Meerut, India  
pradeep8984@gmail.com

<sup>2</sup> JSS Academy of Technical Education, Noida, India

**Abstract.** A Mobile agents are combination of software programs which works automatically in homogeneous and non-homogeneous environment from one host to another for sharing information among users. Mobile agents migrate in unsecure network, so mobile agent's security is a major concern during the communication and sharing of data & information. Mobile agent's migration has major security issues i.e. data integrity, data confidentiality & authentication, on-repudiation, denial of service and access control. In this paper neural network based synchronization key exchange is proposed for Encryption and Decryption.

**Keywords:** Mobile agent · Neural networks · Tree parity machine · New Tiny Encryption Algorithm

## 1 Introduction

Mobile agents are self-dependent program, works on the basis of host. Mobile agent created by user and migrates from one host to another and works automatically. There are three main parts of mobile agent i.e. state, agent code and Agent Function. Mobile agent program executes on every host. A movable agents are software process automatically move through a heterogeneous network under self-control.

Mobile agents are migrating from one user to another user and contacting with other agents. It decides when and where to migrate. Mobile agents has specific life cycle from starting to end suspend its execution. Characteristic of Movable agents are autonomous, dynamic Behavior, intelligence, goal oriented, intelligence etc.

A mobile (or migrating agent) agent can do task on the behalf of host is host not connected to network. After reconnection of host to network mobile agent returns all the result to host. There are many advantages of using mobile agent like, requirement of less network bandwidth, less network delay (latency), synchronization of protocol, working for homogeneous and non-homogeneous network, automatic and dynamic behavior, robustness etc. Mobile Agents are used in different applications like, E-Commerce, Banking system, Security, data retrieval (centralized and distributed), Monitoring System etc.

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M. Singh et al. (Eds.): ICACDS 2020, CCIS 1244, pp. 1–10, 2020.  
[https://doi.org/10.1007/978-981-15-6634-9\\_13](https://doi.org/10.1007/978-981-15-6634-9_13)

  
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Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-68, Meerut, India. Phone: 250114



# Comparison of the gross tumor volume in end-expiration/end-inspiration (2 Phase) and summated all phase volume captured in four-dimensional computed tomography in carcinoma lung patients

Pramod Kumar Sharma<sup>1,2</sup>,  
Roopam Srivastava<sup>1</sup>,  
Anusheel Munshi<sup>3</sup>,  
Manish Chomal<sup>4</sup>,  
Gagan Saini<sup>4</sup>,  
Madhur Garg<sup>5</sup>,  
Jayanand Manjhi<sup>2</sup>,  
D. V. Rai<sup>2</sup>

## ABSTRACT

**Purpose:** The aim of this study was to compare the delineation and treatment planning of 2 Phase based (end-expiration and end-inspiration) internal gross tumor volume (IGTV) with 10-phase based (four-dimensional (4D)) IGTV.

**Materials and Methods:** Patients with lung tumors at different sites were selected for the study. The location of the tumor in Groups A, B, C were at the upper lobe (attached to the chest wall), middle lobe, and lower lobe, respectively. We contoured the GTV on each of the 10 respiratory phases of the 4D computed tomography (4DCT) data set. The combination of these GTVs produced the IGTV "All Phases." GTV was also generated on the extreme respiratory phases. The combination of these two GTVs produced IGTV "2 Phases." Treatment planning was done, and dose to organs at risks (OARs) were compared in both cases.

**Results:** The average volume of IGTV "2 Phases" and IGTV "All Phases" for Group A were nearly same. However, for Group B and Group C, IGTV "2 Phases" were smaller than the IGTV "All Phases." Lung-GTV doses were less in "exp-insp" phases than in "4DCT" for Groups B, C, whereas it was same for "expiration-inspiration" and "4DCT" in Patient A.

**Conclusion:** Patients with tumor upper lobe tumor have no difference in tumor coverage and OARs sparing in the 2 Phase and all phases but middle lobe and lower lobe have a greater excursion during respiration and hence greater all phases IGTV.

**KEY WORDS:** Four-dimensional computed tomography, lung tumors, motion management, phases

## INTRODUCTION

Lung cancer remains one of the most common causes of cancer death. Radiotherapy (RT) is a cornerstone in the management of locally advanced lung cancer patients. The respiratory motion is an important serious source of error for RT in many patients of nonsmall-cell lung cancer (NSCLC).<sup>[1-3]</sup> The consequent intrafraction-motion is an issue that is becoming increasingly important.<sup>[2]</sup> To account for this motion in the normal course RT treatment planning, a large margin needs to apply to the tumor.<sup>[4,5]</sup> These excessive volumes result in excessive lung tissue irradiation with the risk of causing an increased chance of radiation pneumonitis and also restrict the ability of dose escalation.<sup>[6-9]</sup> Therefore, integration of other technologies such as respiratory gated RT and cone-beam computed tomography (CBCT) verification of patient set-up are important components of intensity modulated radiotherapy (IMRT) and image-guided radiotherapy (IGRT) of the lung.<sup>[1-3]</sup>

Several recent publications have addressed the issue of tumor motion in target delineation of lung tumors and the consequent impact on dosimetry.<sup>[10]</sup> However, the possibility of doing a 2 Phase scan in the treatment of lung cancers has not been explored by investigators. The present study was aimed to do a comparison of the gross tumor volume (GTV) in end-expiration/end-inspiration (2 Phase) and summated all phase volume captured in four-dimensional CT (4DCT) in carcinoma lung patients.

## MATERIALS AND METHODS

For this study, lung cancer patients for RT planning were divided into three groups on the basis of the location of the tumor. Each group contained two patients of similar tumor location.

- Group A: Tumor located at left upper lobe (attached to the chest wall)
- Group B: Tumor located at the right middle lobe
- Group C: Tumor located at left lower lobe.

Departments of  
<sup>1</sup>Medical Physics,  
<sup>2</sup>Radiation Oncology,  
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Scientific Director,

National Dope Testing Laboratory (NDTL), Ministry of Youth Affairs and Sports, Government of India.



(admin/upload/41.jpg)

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Vice-Chancellor Shobhit Deemed University

Modipuram - Meerut

  
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**2021**



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**Dr. M Basumondal**  
Chief Managing Editor

Page: 0/0/0/0/0

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Shobhit



Prof. Moni Madaswamy <moni@shobhituniversity.ac.in>

---

## Reference to your contribution to my forthcoming book

9 messages

Vinanchiarachi <vinanchiarachi@yahoo.com>

Sun, Dec 27, 2020 at 12:13 AM

Reply-To: Vinanchiarachi <vinanchiarachi@yahoo.com>

To: Shinju Damodaran <dshinju@gmail.com>, "Prof. Moni Madaswamy" <moni@shobhituniversity.ac.in>

Cc: Damodaran V K <vkd@ieee.org>, "Damodaran VK Prof." <damodaranvk@gmail.com>, "vkdamodaran@outlook.com" <vkdamodaran@outlook.com>

Dear Mr. Shinju Damodaran and Prof. Moni Madaswamy,

I am extremely grateful to both of you for your great value addition to my forthcoming book. Your contributions will be factored in a special section in the last chapter under the title "Digitalizing agriculture for efficiency gains"

I have added the following about the professional profile, respectively.

### ***Digitalizing agriculture for efficiency gains\****

*\*This section draws entirely on write-ups provided by two eminent experts on digitalization of agriculture, Mr. Shinju Damodaran and Prof. Moni Madaswamy. Mr. Shinju Damodaran has over 20 years of technology management experience, including in the software consulting field in India, and the USA, served as a Vice President of Infosys with Highmark Blue Cross Blue Shield, after his B. Tech. in Electronics and Communication Engineering from the University of Kerala in 1992. He recently completed his Master of Science in Technology Management from Columbia University, New York, with 'Improving crop yield and profitability using computer vision and drones' as his thesis. Prof. M. Moni is a well known Senior Technocrat in the field of Informatics and e-Governance. He is the former Director General of National Informatics Centre, Government of India. After his retirement as Director General (NIC) in May 2013, Prof. M. Moni joined the Shobhit University as Professor Emeritus (Informatics and e-Governance) on invitation, and established the Centre for Agricultural Informatics and e-Governance Research Studies (CARIS). He is the Chairman of CARIS.*

Please let me know whether the above would suffice. Kindly take the liberty of making changes, if any, as you desire.

I am attaching the write-up sent by Mr. Shinju Damodaran for Prof. Moni's information. Once I receive Prof. Moni's write-up, I shall send it to Mr. Shinju for his information.

Once again, a million thanks to both of you for adding to the correctness and completeness of my forthcoming book titled "The Resilience of Indian Economy"

Best regards,

Jebamalai

Dr. Jebamalai Vinanchiarachi

Principal Adviser, Knowledge Management Associates Austria (Present)

Principal Adviser to the Director General United Nations Industrial Development Organization (2006-2009)

---

*Jebamalai*  
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# ICAST 2021: 15. International Conference on Agricultural Science and Technology

May 20-21, 2021 in Berlin, Germany



Conference Code: 21DE05ICAST



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April 15-16, 2021 in Lisbon, Portugal



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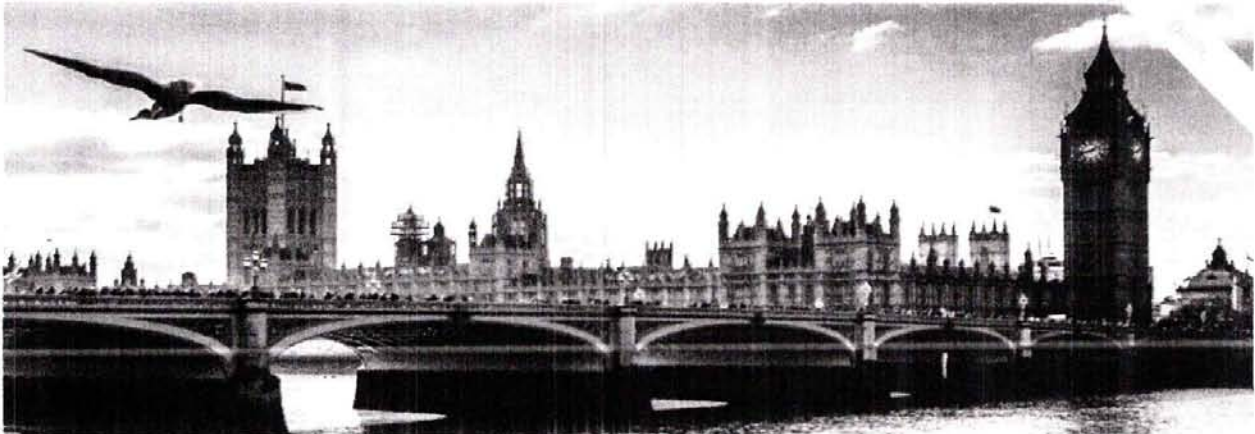
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# ICBT002 2021: 15. International Conference on Bioengineering and Technology

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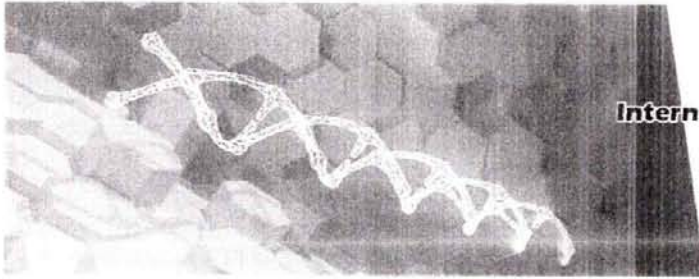
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# ICBM 2021

International Conference on Biomedical Materials

生物医用材料国际研讨会

October 29-31, 2021

Gullin, China

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# ICLS004 2021: 15. International Conference on Life Sciences

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# ICMPFP 2021: 15. International Conference on Molecular Physics and General Principles

March 04-05, 2021 in Rio de Janeiro, Brazil



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Wed, Oct 28, 2020 at 10:58 AM

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Dear Prof. Vijay Maheshwari,

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# Impact of infrared radiation on track etching parameters of Lexan track detector to fission fragments from 252Cf source

R.K. Jain<sup>a</sup>, Ashok Kumar<sup>b,\*</sup><sup>a</sup> Physics Department, Shobhit Institute of Engineering and Technology (Deemed to-be-University), Meerut, U.P., India<sup>b</sup> Physics Department, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, New Delhi 110096, India

## ARTICLE INFO

### Keywords:

Lexan track detector  
Infrared radiation  
Track etching parameters  
Fission fragments  
Activation energy

## ABSTRACT

In this research work, the impact of infrared (IR) radiation on the etching parameters like bulk etch rate  $V_B$ , track etch rate  $V_T$ , Sensitivity  $S$ , Critical angle of etching  $\theta_C$  and track registration efficiency  $\eta$  of Lexan track detector, irradiated to fission fragments from 252Cf source, were investigated. The changes in etching parameters due to infrared radiation for 0, 12 and 24 h at different temperatures (328–348 K) are discussed based on chain scission and cross-linking mechanisms. Bulk and track etch rates increase with infrared radiation in case of post-exposed as compared to un-exposed while sensitivity slightly decreases for 12 h exposure with infrared radiation but slightly increases for 24 h exposure with infrared radiation as compared to un-exposed. On the other hand, bulk and track etch rates decrease with infrared radiation in case of pre-exposed as compared to un-exposed while sensitivity slightly increases. Critical angles increase and track registration efficiency decreases with etching temperatures. Activation energies for bulk and track etching rates have been determined by fitting Arrhenius equation to the experimental data of bulk and track etch rates which show a decrease in bulk activation energies in case of post-exposed but slightly increase in case of pre-exposed as compared to un-exposed Lexan track detectors. Track activation energies show the same trend as for bulk etch rate.

## 1. Introduction

The Lexan track detector is very popular in the field of Solid State Nuclear Track Detectors due to its low cost and high degree of reproducibility and is generally used in many applications of nuclear physics such as detection of high energetic heavy nuclear particles, neutron dosimetry, detection of cosmic radiation, measurement of mass of heavy ion, determination of energy of a nuclear particle by using mass and track length of nuclear particle. Lexan track detector, transparent, quite uniform in sensitivity over large area, quite smooth surfaces and softened Solid State Nuclear Track Detector with chemical composition  $C_{16}H_{14}O_3$ , is particularly well suited for detecting fission fragments because its induced tracks are revealed optically by etching with NaOH [31,32,57,10]. These tracks can then be identified with an optical microscope with 100% efficiency for many fission fragments that are normally incident to its surface such as fission fragments from 252Cf source [22,23,24].

Various researchers have tried to use different types of nuclear track detectors and particles to study Low-LET ionizing radiations like X-rays, gamma rays, infrared radiation, UV radiation, He-Ne laser radiation [13,44,25,49,46,31,32,15,14,16,34].

Khalifa et al. [1], studied the effects of laser irradiation on Nuclear Track Recording Properties of CR-39 nuclear track detector. Their result indicates a significant decrease in chemical track etching rates of irradiated CR-39 samples. Also, the effect of laser appeared in a significant increase in the track density [47,48], investigated on the UV-VIS spectra and etching characteristics of CR-39 plastics irradiated with 150 W infrared radiation lamp for different times ranging from 0 to 24 h. They showed the significant increase in bulk and track etch rates in case of post-exposed for 12 h and 24 h exposure with infrared radiation. Sensitivity also increases with infrared dose but is nearly same for 12 h and 24 h dose. Nada and Mohammed [36], investigated the effect of He-Ne laser of different power on CR-39 irradiated with alpha particles. They found increase in the etching parameters like bulk etch rate, track etch rate, critical angle and sensitivity. Zaki et al. [61] observed the effect of He-Ne laser on CN-85 and CR-39 irradiated with alpha particles. They found increase and decrease in bulk etch rates as compared to the bare CN-85 and CR-39 detectors. Ibrahim and Bhaa-aldeen [20], investigated the effect of Nd:YAG laser (wavelength = 532 nm) on the CR-39 polymer irradiated with 3.0 MeV alpha particles. They calculated bulk etch rate, track etch rate, etching efficiency and etching ratio in case of post, pre and un-exposed CR-39

\* Corresponding author.

E-mail address: [ashokbip@gmail.com](mailto:ashokbip@gmail.com) (A. Kumar).<https://doi.org/10.1016/j.nimb.2020.07.004>Received 7 June 2020; Received in revised form 12 July 2020; Accepted 12 July 2020  
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## Role of ACE2 in Infection by Corona Viruses

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### Introduction

It is the beginning of 21st century when the species of SARS-CoV start spreading the deadly pneumonia into in humans (Drosten et al., 2003, Ksiazek et al., 2003), Middle-East respiratory syndrome corona virus (Zaki et al., 2012) (MERS-CoV), and SARS-CoV-2 (Huang et al., 2020, Zhu et al., 2020).

It was in China, Guangdong where SARS-CoV came to the fore in 2002, spreading via air, infecting 8,098 people and claiming 774 lives in five continents MERS-CoV followed shortly after in 2012 in Arabian Peninsula, expanding to 27 countries infecting 2494 individuals and causing 858 death To this date, it is a weighty health perturbation in the Middle-Eeast. Erstwhile unexplored corona virus, SARS-CoV-2 was ascertained in China, Wuhan (2019) and later sequenced in January 2020 (Zhou et al., 2020, Zhu et al., 2020). Right now SARS-CoV-2 is linked with an underway outbreak of an aberrant pneumonia (Covid-2019) which has affected 123,902,242 people including 2,727,837 deaths as of 9:07 am CET, 25 March 2021 according to WHO, which also proclaimed it as a public health emergency of international concern. Although dromedary camels acted as a reservoir host unfurling the infection to humans but MERS-CoV was propounded to have emanated from bats. (Haagmans et. al., 2014, Memish et al., 2013). SARS-CoV and SARS-CoV-2 are conveniently related to each other and originated in bats (Ge et al., 2013, Hu et al., 2017, Li et al., 2005b, Yang et al., 2015a, Zhou et al., 2020). Palm civets and racoon dogs on the other hand have been acknowledged as intermediary hosts for zoonotic conveyance of SARS-CoV between bats and humans (Guan et al., 2003, Kan et al., 2005, Wang et al., 2005), although recognition of multiple SARS-related corona viruses in bats put



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(A NAAC Accredited Deemed to-be University)  
NH-58, Modipuram, Meerut 250 110, INDIA  
T. : 0121-2575091, F. 0121-2575724  
E. : mail@shobhituniversity.ac.in  
U. : www.shobhituniversity.ac.in

To,

Date- 15/01/2021

The Principal/Manager

DELHI PUBLIC SCHOOL  
NAWADA, BIHAR

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 15/01/2021 to 15/05/2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- Rahul Ray

Father's name- Ramishwar

Roll No.- MRT19UGBED039

Thanking you

15/01/2021  
Principal  
Delhi Public School  
Nawada, Bihar

Registrar  
Shobhit Institute of Engineering & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





# Delhi Public School Nawada

(Run Under Unique Child Education Trust)

Near Kali Mandir, Motibigha, P.O. Gonawar, Dt. Nawada, Bihar - 805110, Ph : 06324 - 213392

Affiliated to CBSE, New Delhi

School Aff. No. : 370692

School code : 50628

Website : www.dpsnawada.com

www.dpsnawada.net

Email : dpsnawada@gmail.com

Date: - 15/05/2021

This is to certify that Rahul Ray  
son of Rameshwar Prasad Yadav has  
started four month Internship in  
B.ed II year programme as faculty of  
Science' Department in DELHI  
PUBLIC SCHOOL, NAWADA, BIHAR.  
He has working in our school since  
15-01-2021 to 15-05-2021.

15/05/2021  
Principal  
Delhi Public School  
Nawada-805110



Registrar  
State Institute of Engineering & Tech  
(Date)  
Nawada-805110

## Internet of Things Based Approach to Detect Obstacle in Fog to Avoid Accidents

<sup>1</sup>Rajesh Pandey, <sup>2</sup>Avinav Pathak, <sup>3</sup>Nidheesh Sharma, <sup>4</sup>Rohit Vats

<sup>1</sup> Assistant Professor, Shobhit Institute of Engineering & Technology, Meerut, (Uttar Pradesh), India

<sup>2</sup>Assistant Professor, Shobhit Institute of Engineering & Technology, Meerut, (Uttar Pradesh), India

<sup>2</sup>Assistant Professor, Dr. K. N. Modi Institute of Engineering & Technology, Ghaziabad, (Uttar Pradesh), India

<sup>2</sup>Assistant Professor, Shobhit Institute of Engineering & Technology, Meerut, (Uttar Pradesh), India

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<sup>3</sup>[nidheesh.sharma@knmiet.edu](mailto:nidheesh.sharma@knmiet.edu), <sup>4</sup>[rohit.vats@shobhituniversity.ac.in](mailto:rohit.vats@shobhituniversity.ac.in)

### Abstract

Human life is of the utmost importance. Every year, many people lose their lives in road accidents. Reasons for an accident are many like over-speeding, poor traffic system, drink and drive, rough driving, etc. this paper aims to develop a model that can be used in vehicles to identify accidents due to Zero visibility in fog in winters and alarming for the same to avoid it. IoT is an emerging technology and can be intensively used for the intelligent transport system. This paper aims to develop an automated IoT enabled system to be used in car for the detection and avoidance of accidents due to zero visibility in fog. To build this system, the Ultrasonic sensor will be integrated with Raspberry Pi along with other supportive components (power-bank, Jumper wires, breadboard, etc.).

### Keywords

IoT, Ultrasonic Sensors, Accident Avoidance, GPS, Raspberry Pi, Fog.

### 1. Introduction

Rapid growth in automobile industries and increasing population on earth leads to more and more traffic on the roads and this increases the accident cases involving human death. Every year, thousands of lives are lost in accidents that occur due to zero visibility in fog in the winter season. According to an article published by Times of India on Jan 5, 2019, the number of people dying in the year 2017 in fog-related road creases is 11,090. The objective of this paper is to save human lives from fog-related road accidents. The aim is to propose an IoT based designed system in cars to detect obstacles in fog so the human lives can be saved by avoiding accidents. To achieve car automation, we use Raspberry pi with a distance sensor and some supporting tools like Wi-Fi adapter, power backup, etc. Using a distance sensor, we'll be able to find out the actual distance of the obstacle in the real environment so that necessary actions or precautions can be taken to ensure the safety of lives. This IoT based system in cars can be used to monitor the data of the live scenario of the roads and alert for the emergency so that safety measure can be taken.

स्थापना-2016

# खुब लाल उत्कृष्ट उच्च माध्यमिक विद्यालय

रामविशानपुर, राघोपुर (सुपौल)

स्कूल कोड- 42383

पत्रांक- 1527-2

दिनांक...15/07/2020...

प्रेषक :- प्राचार

प्रेषित :- सेवा में,

विषय :-

## इन्टरशिप के संबंध में

प्रमाणित किया जाता है कि मो. रामरा तवरेज, पिता- मो. अफजल अहमद  
Shobhit Institute of Engineering & Technology, Meerut  
B.Ed- II<sup>nd</sup> Year की छात्र है इस विद्यालय में इन्होंने शिक्षक इन्टरशिप  
के अन्तर्गत 21 दिसम्बर 2019 से 20 अप्रैल 2020 (4 माह) का शिक्षण कार्य की है।

उस दौरान इनका कार्य उत्तम एवं सराहनीय रहा है।

अतः हम इनके उज्ज्वल भविष्य की कामना करता हूँ।



Registrar  
Shobhit Institute of Engg. & Tech  
(Dsc. Ramkishanpur, Raohapur)  
NH-33, Dist. Raohapur, Pin-250110

उदयशंकर कुमार

प्रधानाध्यापक

खुबलाल उ० उ० मा० वि०  
रामविशानपुर, राघोपुर (सुपौल)



# Triple diffusive convection with Soret–Dufour effects in a Maxwell nanofluid saturated in a Darcy porous medium

Reema Singh<sup>1</sup> · Jaimala Bishnoi<sup>1</sup> · Vipin Kumar Tyagi<sup>2</sup>

Received: 12 January 2020 / Accepted: 10 March 2020  
© Springer Nature Switzerland AG 2020

## Abstract

Soret–Dufour phenomenon in a Darcy–Maxwell Brownian nanofluid is performed using a macroscopic filtration model, suggested by Alishayev (Hydromechanics 3:166–174, 1974). For nanoparticle flux at the boundaries passive management, influenced by the management of concentration flux assumed in Stefan’s flow, is considered. Normal mode technique is used to analyse the stationary and oscillatory convections under the linear stability theory. The effects of different phenomenon are quantified by dimensionless parameters. It is found that the Soret parameter has dual behaviour for stationary convection and destabilizing behaviour for oscillatory convection, whereas the Dufour parameter has a stabilizing effect for both stationary and oscillatory convections. Nonlinear stability analysis provides the behaviour of flux of heat, salt and nanoparticles in the flow field through  $Nu$ ,  $Nu_C$  and  $Nu_\phi$ . Steady and unsteady convections are discussed. A graphical representation of streamlines, isotherms, isohalines and flow lines of nanoparticles concentrations is presented.

**Keywords** Darcy–Maxwell nanofluid · Soret–Dufour-driven convection · Linear and nonlinear instability · Passive management of nanoparticle at the boundaries

## List of symbols

$c$	Nanofluid specific heat at constant pressure	$N_A$	Modified diffusivity ratio
$C^*$	Solute concentration	$N_B$	Modified particle density increment
$C$	Dimensionless temperature	$N_{CT}$	Soret parameter
$C_c^*$	Concentration at the upper wall	$N_{TC}$	Dufour parameter
$C_h^*$	Concentration at the lower wall	$p^*$	Pressure
$(\rho c)_m$	Effective heat capacity of the medium	$p$	Dimensionless pressure
$(\rho c)_f$	Effective heat capacity of the fluid	$Ra$	Thermal Rayleigh–Darcy number
$(\rho c)_p$	Effective heat capacity of the material constituting nanoparticles	$Rm$	Basic density Rayleigh–Darcy number
$D_B$	Brownian diffusion coefficient	$Rn$	Concentration Rayleigh–Darcy number
$D_T$	Thermophoretic diffusion coefficient	$Rs$	Solutal Rayleigh number
$D_S$	Diffusion coefficient	$t^*$	Time
$d$	Dimensional layer depth	$t$	Dimensionless time
$g$	Gravitational acceleration vector	$T^*$	Temperature
$K$	Permeability of the porous medium	$T$	Dimensionless temperature
$Le$	Thermosolutal Lewis number	$T_c^*$	Temperature at the upper wall
$Ln$	Thermo-nanofluid Lewis number	$T_h^*$	Temperature at the lower wall
		$(x^*, y^*, z^*)$	Cartesian coordinates
		$(x, y, z)$	Dimensionless Cartesian coordinates

✉ Reema Singh, reemamalik28@gmail.com; Jaimala Bishnoi, jaimalaccsu1@gmail.com; Vipin Kumar Tyagi, prvipin22@gmail.com | <sup>1</sup>Department of Mathematics, Chaudhary Charan Singh University, Meerut, UP 250004, India. <sup>2</sup>SBAS, Shobhit Deemed University, Meerut, UP 250110, India.



*Reema Singh*

Shobhit Deemed University  
& Tech  
(Meerut)  
Meerut-250110

## ORIGINAL ARTICLE

# Detection and Enumeration of Lactic Acid Bacteria from Human Colostrum using Traditional Microbiology Techniques

Ritesh Kumar Arya<sup>\*1</sup> Jaspreet Singh<sup>2</sup> Amar Garg<sup>3</sup>

<sup>1,2</sup> School of Life Sciences, Jaipur National University, Jaipur.

<sup>3</sup> Vice Chancellor, Shobhit Deemed University, Meerut.

Corresponding Author: [ritesharya43@dr.com](mailto:ritesharya43@dr.com), +918128137690

### ABSTRACT

Human colostrum (HC) is the most basic necessity for proper growth and development of infant and it is very rich in all kind of nutrients essential for nourishment. Traditionally, HC was considered to be a sterile fluid. But, recent studies reveals that apart from all the nutritional aspects, HC also contains large number of commensals and mutualistic bacteria that has the huge potentials of probiotics. These bacteria are generally found to be Lactic Acid Bacteria (LAB). Several studies have demonstrated the presence of LAB with probiotic potentials in human milk, but very little scientific information on the number of bacteria present in HC is available till date. Therefore, LAB were isolated and enumerated from HC so that the precise number could be known. The entire study was carried out using traditional microbiology culture techniques. The study found that HC is a rich source of LAB isolation. Large number of LAB species were isolated from 60 different lactating mothers. All the species of LAB were confirmed biochemically using Bergey's Manual of Systematic Bacteriology. The study found that the average number of LAB count per ml of healthy lactating mother ranges between  $10^8$  to  $10^9$ . The study also found that LAB count of mothers with C-section deliveries were observed to be very low due to intake of antibiotics during lactation period. Several other cases of low LAB count were also observed due unbalanced or poor diet. The current study deals with the detection and enumeration of LAB from HC.

**Keywords:** Human Colostrum, Lactic Acid Bacteria, Probiotics, Infant gut, Gut microbiota.

Received 22.03.2020

Revised 22.05.2020

Accepted 27.06.2020

### How to cite this article:

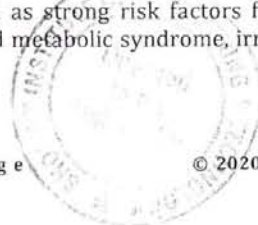
R K Arya, Jaspreet Singh, Amar Garg. Detection and Enumeration of Lactic Acid Bacteria from Human Colostrum using Traditional Microbiology Techniques. Adv. Biores., Vol 11 (4) July 2020: 84-88

### INTRODUCTION

Human Colostrum (HC) is a rich thick fluid providing complete essential nourishment for proper growth and development of the infant's organs [1]. The first milk produced by lactating mothers immediately after the delivery is called colostrum and it is biochemically and functionally different from the mature milk [2]. Colostrum, indeed, contains high concentration of lactoferrin, Immunoglobulin A (IgA), leukocytes and specific developmental factors, a low amount of lactose, potassium, calcium and a large number of Lactic Acid Bacteria (LAB). It provides immunity to the newborns[9].

Microbes are among the most important biological factors providing specific signals to guide immune system development and maturation [2]. Shifts in microbiota composition and activity appear to be related to adverse human health outcomes [7, 8]. The maternal microbial environment impacts the newborn's immune development and, consequently, the infant's health both at early and in later life.

The maternal microbiota is now recognized as a significant determinant of the maternally transferred factors that impact the child's health [1, 3, 4]. Outcome can be affected by specific perinatal factors that also alter infant microbiome development, e.g.- excessive use of antibiotics, unbalanced diet, increasing incidence of cesarean section deliveries, unnecessarily stringent hygiene, and continuous stress influence the maternal microbiome. Alterations and disturbances in microbiota composition along with a reduction in microbial diversity or richness have been described as strong risk factors for the development of lifestyle diseases, such as allergies, diabetes, obesity, and metabolic syndrome, irritable bowel syndrome and other inflammatory-related problems [10].





## Genotypic and phenotypic characterization of *Lactococcus lactis* strain with high probiotic potentials isolated from human colostrum

Riteshkumar Arya <sup>[1]</sup> Komalben Hirani <sup>[2]</sup> Mehul Joshi <sup>[3]</sup> Amar Garg <sup>[4]</sup> Suraj Shukla <sup>[5]</sup> Aishwarya Mayavanshi <sup>[6]</sup>

<sup>[1]</sup>Research Scholar, School of Life Sciences, Jaipur National University, Jaipur, Rajasthan

<sup>[2]</sup>Research Scholar, School of Biological Engineering & Life Sciences, Shobhit Institute of Engineering & Technology (Deemed to be University), Meerut, Uttar Pradesh

<sup>[3]</sup>DNB Student, Department of Obstetrics & Gynaecology, Narayana Multispeciality Hospital, Jaipur, Rajasthan.

<sup>[4]</sup>Vice Chancellor, Shobhit Institute of Engineering & Technology (Deemed to be University), Meerut, Uttar Pradesh.

<sup>[5]</sup>Research Scholar, Department of Microbiology and Biotechnology Centre, Maharaja Sayajirao University, Baroda, Gujarat.

<sup>[6]</sup>Post Graduate Student, C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat.

Corresponding author: [ritesharya43@rediffmail.com](mailto:ritesharya43@rediffmail.com)

### ABSTRACT

The first thick milk produced immediately after the delivery is called human colostrum. It is biochemically and functionally different than mature milk. The period of flow of human colostrum in healthy lactating mothers is from the 1<sup>st</sup> to 6<sup>th</sup> day to delivery. Human Colostrum contains large amount of minerals and nutrients in its composition. Apart from all the nutritional aspects, human colostrum also contains large amount of potentially probiotic lactic acid bacteria. These bacteria play an important role in immune system maturation of infant. Large number of infants throughout the world faces a deficiency of probiotics in their initial stages of life due to several factors. The present study was carried on *Lactococcus lactis* which was isolated from human colostrum. *L. lactis* was found to be very prominent in showing antimicrobial activity against pathogen as well as was able to resist against antibiotics. The primary objective of the current study was to study the biochemical and molecular characteristics of *L. lactis* with high probiotic potentials. According to results, *L. lactis* showed similar homology with several strains of *Lactococcus* which was evaluated using several tools of bioinformatics. The present study will highlight the molecular as well as biochemical characterization of *L. lactis* which was isolated from human colostrum.

**Keywords:** Human colostrum, *L.lactis*, Genotypic and phenotypic characterization

Received 12.01.2021

Revised 25.02.2021

Accepted 31.03.2021

### INTRODUCTION

Human colostrum (HC) is one of the most basic primary necessity of infant to survive in initial days of life. It is very rich in carbohydrates, vitamins, immunoglobulins, proteins, lipids and several other immune factors. Since years, HC was considered to be a sterile thick fluid. But recent studies confer that HC contains large number of mutualistic commensal bacteria that acts as a probiotic in infant gut [1]. These group of bacteria are generally found to be Lactic acid bacteria (LAB). LAB is large group of bacteria that have several health benefits on humans and are used worldwide as probiotics [2]. These group of bacteria are generally found in milk products and decomposing plants which produces lactic acid as their major metabolic end product on fermenting carbohydrates [3]. Several LAB produces proteinaceous bacteriocins which becomes a hurdle for pathogenic microorganisms [4]. LAB has been evidenced by their generally recognized as safe (GRAS) status due to their contribution to healthy microbiota in human mucosal surfaces as well as their several health benefits [5]. The group of LAB comprises of several genera such as *Lactobacillus*, *Pediococcus*, *Aerococcus*, *Leuconostoc*, *Streptococcus*, *Lactococcus* and *Enterococcus* [6]. *L. lactis* belongs to the genera *Lactococcus* which has several health benefits on infant's immune system [17]. *L. lactis* are mostly used as starter cultures in dairy industries due to its wide range

स्थापना-2016

# खुब लाल उन्नमित उच्च माध्यमिक विद्यालय

रामविशानपुर, राघोपुर (सुपौल)

स्कूल कोड- 42383

पत्रांक- 1529-2

दिनांक...15/07/2020...

प्रेषक :- प्राचार

प्रेषित :- सेवा में,

विषय :-

## इन्टर्शिप के संबंध में

प्रमाणित किया जाता है कि रोशनी खातुन, पिता- अशालम

**Shobhit Institute of Engineering & Technology, Meerut**

**B.Ed- II<sup>nd</sup> Year** की छात्रा है इस विद्यालय में इन्होंने शिक्षिका इन्टर्शिप

के अन्तर्गत 21 दिसम्बर 2019 से 20 अप्रैल 2020 (4 माह) का शिक्षण कार्य की है।

उस दौरान इनका कार्य उत्तम एवं सराहनीय रहा है।

अतः हम इनके उज्ज्वल भविष्य की कामना करता हूँ।



  
Registrar

Shobhit Institute of Engineering & Technology  
Meerut  
250110

उदयशंकर कुमार

प्रधानाध्यापक

खुबलाल उ० उ० मा० वि०  
रामविशानपुर, राघोपुर (सुपौल)

## Characteristics of the projectile and target fragments produced in $^{84}\text{Kr}_{36}$ — emulsion interaction at 1 GeV per nucleon

S. Kumar<sup>\*,†</sup>, M. K. Singh<sup>†,¶</sup>, R. K. Jain<sup>\*</sup> and V. Singh<sup>‡,§</sup>

<sup>\*</sup>Department of Physics, School of Basic and Applied Sciences,  
Shobhit University, Meerut 250110, India

<sup>†</sup>Department of Physics, Institute of Applied Science and Humanities,  
G.L.A. University, Mathura 281406, UP India

<sup>‡</sup>Department of Physics, Institute of Science,  
Banaras Hindu University, Varanasi 221005, India

<sup>§</sup>Department of Physics, School of Physical and Chemical Sciences,  
Central University of South Bihar, Gaya 824236, India

<sup>¶</sup>singhmanoj59@gmail.com

Received 14 July 2020

Revised 15 September 2020

Accepted 21 September 2020

Published 27 October 2020

In the present analysis, we have focused on the emission characteristics of the projectile and target fragments produced from the interaction of  $^{84}\text{Kr}$  with nuclear emulsion at 1 A GeV. We have studied the variation of the fragmentation parameter for singly charged ( $Z = 1$ ), doubly charged ( $Z = 2$ ), lower multiple-charged ( $Z = 3-5$ ), medium multiple-charged ( $Z = 6-9$ ) and higher multiple-charged ( $Z > 9$ ), projectile fragments with respect to mass of the projectile and found that they are showing the different behaviors for different projectile fragments. We have also studied the emission behavior of shower particles, with respect to the black and gray particles. The present studies show that the production of shower particles strongly depends on the incident kinetic energy of the projectile and also depending on the interaction of the different types of target nuclei of nuclear emulsion.

*Keywords:* Nuclear emulsion detector; projectile fragmentation; target fragmentation.

PACS Number(s): 25.70.Mn, 29.40.Rg, 25.70.Pq

### 1. Introduction

In the last decade, after the predictions of the new phase of matter known as Quark-Gluon Plasma, the study of the nucleus–nucleus (A–A) and hadrons–nucleus (h–d) collisions at relativistic energy gained much attention by the researchers worldwide.<sup>1–5</sup> The heavy ion collisions at relativistic energy provide an opportunity to

<sup>¶</sup>Corresponding author.



# BRIGHT SCHOLAR PUBLIC SCHOOL

An English Medium.....

Regd. 55294-M

Date 27-05-2021

New Eidgah Colony, Near  
Naumaniya Masjid, Meerut  
Mob.: 09012104154, 09719606929

This is to certify that Mohd Sadique Alam  
son of Late Iftikhar Alam has started four  
months Internship in B.ed. II year Programme  
as a faculty of Science department in  
Bright Scholar Public School Meerut. He  
has working in our school since 28-1-2021  
to 27.5.2021.

Manager  
The Bright Scholar Public School  
Eidgah Road, Meerut

Registrar  
Shri Ram Institute of Engg. & Tech.  
(U.P.)  
Meerut-250111





# Shobhit

Institute of Engineering & Technology  
Deemed to-be-University

EDUCATION EMPOWERS

Shobhit Institute of Engineering & Technology

(A NAAC Accredited Deemed to-be University)

NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

The Principal/Manager

Date-25/04/2024

Sun..Beam..Academy

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE. Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from ..01./Feb./2024 to..31./May/2024.. (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.

Name- Sakshi Sharma

Father's name- Ramod Kumar

Roll No.- MRT19UGBED018

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Registrar  
Shobhit Institute of Engg & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



# SUN BEAM ACADEMY

New Karhera Colony, Gali No. 23, Near Hindon Air Force,  
Mohan Nagar, Ghaziabad, Tel. : 9971715521, 9971235710

Ref. No.

Dated.....

## SCHOOL INTRNSHIP CERTIFICATE

This is to certify that Ms./Mr./Mrs. SAKSHI SHARMA D/O Sh. Pranod Kumar

R/O MRTIQUGBED018 Student of B.ed 2 year program SHOBHIT INSTITUTE OF ENGINEERING & TECHNOLOGY, MEERUT has successfully completed 4 months( from 01/February to 31/May/21) internship in our school. Her internship activities include teaching, organizing of morning assembly, maintenance of attendance register, organization of co-curricular activities, etc.

During the period of her internship program with us she been exposed to different process was found punctual, hardworking & inquisitive, We wish her very best in all her future endeavors.

Principal  
**PRINCIPAL**

  
Registrar  
Shobhit Institute of Engineering & Tech.  
(Dated: \_\_\_\_\_)  
Nri-58, 2001, Ghaziabad-250119





Dr. Alpana Joshi &lt;alpana.joshi@shobhituniversity.ac.in&gt;

**Request to provide internship to B.Sc Ag 7th students**

3 messages

Dr. Alpana Joshi &lt;alpana.joshi@shobhituniversity.ac.in&gt;

Thu, Jul 15, 2021 at 11:11 AM

To: sudeshbio@gmail.com, sudesh.tiwari@dayalgroup.com

Dear Sir/Madam,

Our students of Shobhit University, Meerut are interested to do an internship at the Dayal Company as a part of their RAWE program of B.Sc Ag degree. It is a request to provide them an opportunity to work with your reputed company for 1-2 months as an intern.

**The list of students are as follows;**

1. Sandeep Sahoo
2. Sarthak Sirophi
3. Niklhesh Singh
4. Navneet Kumar
5. Avnish Deol
6. Gaurav Kumar
7. Sriram
8. Sonali
9. Priti Kumari
10. Harshit

Let me know if anything else required from my side,

Thanks and Regards,

--

**Dr. Alpana Joshi**

Associate Professor & Head  
Department of Agriculture & Agri-Informatics  
School of Biological Engineering & Sciences  
Shobhit Deemed University

**Mobile: 9634712358****E-mail id:** joshi.alpana@gmail.com**URL:** www.shobhituniversity.ac.inDr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>  
To: sudeshbio@gmail.com, Sudesh Tiwari <sudesh.tiwari@dayalgroup.com>

Thu, Jul 22, 2021 at 3:43 PM

Dear Sir,

Please inform me as soon as possible regarding the internship at the Dayal Company.  
My phone no. is 9634712358

Thanks and Regards,

--- &amp; Tech

250110

[Quoted text hidden]

**Dr. Alpana Joshi**

Associate Professor & Research Coordinator

[Quoted text hidden]

Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>  
To: sudeshbio@gmail.com, Sudesh Tiwari <sudesh.tiwari@dayalgroup.com>

Wed, Jul 28, 2021 at 2:54 PM

**Dear Sir/Mam,**

**As discussed in a phone call with HR, I am sharing the list of students and their phone numbers.**

1. Sandeep Sahoo (76009928448)
2. Niklhesh Singh (9627531891)
3. Navneet Kumar (7302915647)
4. Avnish Deol (7310546056)
5. Gaurav Kumar (9012818324)
6. Sriram (7504949742)
7. Sonali (9625373064)
8. Priti Kumari (8448612464)
9. Harshit (7599346869)

Thanks and Regards,

[Quoted text hidden]

  
Registrar  
S... & Tech.  
No. 250110



Innovative Approach Towards Quality Improvement  
And Productivity Enhancement of Tissue Paper

A SYNOPSIS

Submitted for the Registration for the Degree

of

Doctor of Philosophy

in

PHYSICS

By

Sanjeev Kr. Jain

(Regn. No: SU/Ph.D./Physics/02/2020)

Approved  
[Signature]

Under the Supervision of

Prof. (Dr.) Dharam Dutt  
Co-Supervisor  
Department of Paper Technology  
IIT Roorkee  
(Saharanpur Campus)

Prof. (Dr.) R.K. Jain  
Supervisor  
Department of Physics  
Shobhit Institute of Engineering & Technology  
(Deemed to-be-University)



**Shobhit**  
Institute of Engineering & Technology

EDUCATION EMPOWERS

School of Basic & Applied Sciences

(Department of Physics)

Shobhit Institute of Engineering & Technology

(A NAAC Accredited-Deemed-to-be University)

MEERUT

Modified synopsis (2020)  
Submitted by Mr. Sanjeev Kr. Jain  
as discussed in RDC.  
[Signature]  
22/1/2021

250112

[Signature]  
Sanjeev Kr. Jain  
(PhD. Scholar, Department of Physics)

## Development of a Gas Chromatography Tandem Mass Spectrometry-Based Analytical Method for the Quantitative Determination of Organochlorine Pesticide Residues in Potato Crops

Sarvendra Pratap Singh <sup>1\*</sup>, Jyoti Sharma <sup>1</sup>, Pragya Prakash <sup>2</sup>

<sup>1</sup>Department of Biotechnology, School of Basic and Applied sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Uttar Pradesh-250110, India

<sup>2</sup>Department of Bio-Engineering Birla Institute of Technology, Mesra, Ranchi, Jharkhand-835215, India

Received 13 September 2020; accepted in revised form 09 January 2021

**Abstract:** A method validation study has been performed to analyze organochlorine pesticide residues in potato and sweet potato using gas chromatography-tandem mass spectrometry in a selective ion reaction monitoring (SRM) mode of GC-MS/MS scans. The method (QuEChERS) has been validated in compliance with the European SANTE. The validation parameters were assessed to verify the method's fitness for the targeted analysis, and the obtained results were observed in the range of the criteria mentioned in the validation guidelines. The optimized method was utilized for the organochlorine pesticide analysis in potatoes and sweet potatoes. The analyzed samples were minimal in their pesticide content as per the standards; it has shown great effectiveness by offering excellent results in terms of accuracy (70-120 % recovery) and precision ( $\leq 20$  %), and retention time (13.5 minutes). As the analysis was well linearized with a regression coefficient of  $>0.99$ , it holds a much-reduced maximum relative standard deviation (RSD) of  $\leq 6$  %. The method can be utilized for the twenty-two organochlorine pesticides in potato and sweet potato.

**Key words:** Organochlorine pesticides, GC-MS/MS, potato, sweet potato, QuEChERS.

### Introduction

Potato (*Solanum tuberosum*) is a tuber crop most widely used as a vegetable for human consumption. Potato is widely used in the form of fries, baked foodstuff, boiled, and meshed form. The use of potatoes is not restricted only as a food; it is also used as adhesive, binder, texture agent, and filler <sup>1</sup>. The potato starch is entirely biodegradable and also can be used as an alternative to polystyrene and other polymers in the making of disposable plates, dishes, and knives, etc. <sup>2</sup>. India is holding the second rank worldwide in the production of potatoes after China <sup>3</sup>. To

improve crop production and for protection, there is wide use of pesticides. The use of pesticides in excess has led to the deterioration of the crop quality in nutrition. Another crop belonging to the potato family is sweet potato. Sweet potato (*Ipomoea batatas*) is a staple food in many parts of the world. It is the seventh most important food crop and stands next to cassava among the root and tuber crops grown globally. Sweet potato is a good source of fibers, potassium, vitamins, and other essential nutrients <sup>4</sup>. It is also a valuable medicinal food crop having anti-cancer, anti-diabetic, and anti-inflammatory activities <sup>5</sup>. Sweet

\*Corresponding author (Sarvendra Pratap Singh)  
 E-mail: <sps.chrom@gmail.com>



# BAGESHWARI PUBLIC SCHOOL

SADARPUR, GHAZIABAD (U.P)

15-05-2021

This is to certify that Satish Kumar  
son of Arvind Kumar has started four  
month Internship In. B.ed II Year  
Programme as faculty of science  
Department In BAGESHWARI PUBLIC  
SCHOOL, SADARPUR, GHAZIABAD (U.P).  
He has working In our school since  
15-1-2021 to 15-5-2021

15/5/21  
Principal  
Bageshwari Public School  
Sadarpur, Ghaziabad

15/5/21  
Tech  
250112







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(A NAAC Accredited Deemed to-be University)

NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

Date- 13/01/2021

The Principal/Manager

BAGESHWARI PUBLIC SCHOOL

SADARPUR, GHAZIABAD (U.P.)

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 15-1-2021 to 15-5-2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation.

Name- Satish Kumar

Father's name- Shri Arvind Kumar

Roll No.- MRT1906BED040

Thanking you

Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

Principal  
Bageshwari Public School  
Sadarpur, Ghaziabad  
15/1/2021  
1-5212-14



NH-58, Modipuram

3 Tech  
Meerut-250110

# SARASWATI SHIKSHA NIKETAN



## INTER COLLEGE

KRISHNA NAGAR, BAGU, GHAZIABAD

### To Whom So Ever It May Concern

This is to certify that **Mr Saurabh Kumar S/o Mr. Sushil Kumar**, Student of **B.Ed. Second Year Session 2020-21, Shobhit University, Meerut, U.P.** has successfully completed his **16 weeks** Internship programme from **18/01/2021 To 19/05/2021**. In our school **Saraswati Shiksha Niketan Inter College**.

During Internship period he worked with utmost dedication and participated in all school activities enthusiastically. We wish his success in future.

*[Handwritten Signature]*  
16/5/21

सरस्वती शिक्षा निकेतन  
कृष्णा - **Principal** कि. बा. ६

*[Handwritten Signature]*  
Regd. Office: Sarvagyan Institute of Tech  
(Phase - II) Sarvagyan Institute of Tech  
Noida, U.P. - 201301, Meerut-250110

# A Literature Review: Detection of Sarcasm in Social Media

Seema Gusain<sup>1,2</sup> and Dr. Mamta Bansal<sup>1</sup>

<sup>1</sup> Shobhit Institute of Engineering & Technology ( Deptt. of CSE)  
Shobhit Deemed-to-be- University, Meerut, (U.P.), India

<sup>2</sup> G. L Bajaj Institute of Technology & Management, (Deptt. of IT)  
Greater Noida, UP, India

## Abstract

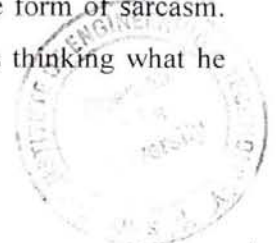
*Social media consists of a large part of feedback data that people give on a product or service. The feedback is mainly of two types positive and negative, which comes because of human emotions. Some people also express this emotion as a taunt, which we also call sarcastic feedback. Analysis of sarcastic statement is difficult because the feeling of some people is negative but they give a positive statement. It is even more difficult task to get this negative feeling out of positive statements. When we go in deep for knowing the opinion of people then we reach their real mental state. This provides more accurate features and with the help of it the prediction rate is more accurate. In this paper, different ways used for sarcasm detection and allied topics, of different people have been reviewed.*

**Keywords:** Sarcasm, Sentiment analysis, Emotion, Mood

## Introduction

Social media contains a lot of data. With the analysis of this data, we will be able to understand the views of people better and we can give good service to our customers. This will help in improving business. On social media platform many users share their feedback, about a particular object or event. By analyzing these, we get to know the emotions of a particular person. Sometimes people share their opinions in indirect manner. They do not reveal their feeling easily but use some opposite words to express it, which can be in the form of sarcasm. These words are used for taunt, mockery or criticism. It depends on writer's thinking what he feels about particular situation.

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# K.K. NATIONAL PUBLIC SCHOOL

CHOUSA (MADHEPURA)

**अनुभव प्रमाण - पत्र**

व्या ददाति विनयम्

भित किया जाता है कि सुश्री सोफाली कुमारी

प/पति

सुश्री सुश्री पारसमणि

पंजीयन संख्या 2619140014

नं. MKT.19.06&T.6014

सब 2019-2021 ग्राम सीजरा

पिता

शाना

सीजरा

अंचल

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पिता

राज्य

बिहार

पिनकोड 252212

विद्यालय नं दिनांक 22-01-2021

से दिनांक 18-04-2021

तक शिक्षण कार्य हेतु अशकालीन

तक के रूप में कार्यरत रहे। इनकी शिक्षण गतिविधि अत्यंत सहाहनीय एवं विश्वसनीय रही है।

**हम इनके उज्वल भविष्य की कामना करते हैं।**

Headmaster  
K.K. National Public School  
Madhepura  
इन्साक्षर एवं मुहर

Registrar  
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NH-58, Madhepura, Bihar-250110



This is to certify that  
Project No. 01

Project Title: Variation in Bioelectrical variables in different ages Male and Female candidates and correlation and correlation with Body composition  
Research Scholar: Shanu C Sam  
Mentor: Dr. Shiva Sharma

Was received by the Institutional Ethical Committee at Yashoda Super Speciality Hospitals, Kaushambi for ethical approval of clinical trial dated on 10/04/2021. The proposal meets the essential requirement for conduct of clinical trial as stated by the Indian Council of Medical Research and is approved by the committee for further work.

It is the Researcher's responsibility to ensure that all researchers associated with this project are aware of the conditions of approval and which documents have been approved.

The Principal Researcher is required to notify the Secretary of the Ethics Committee via amendment or progress report, of

- Any significant change to the project and the reason for that change, including an indication of ethical implication (if any);
- Serious adverse effects on participants and the action taken to address those effects;
- Any other unforeseen events or unexpected developments that merit notification;
- The inability of the Researcher to continue in that role, or any other change in research personnel involved in the project.
- Any expiry of the insurance coverage provided with respect to sponsored clinical trials and proof of re-insurance;
- A delay of more than 12 months in the commencement of the project; and,
- Termination or closure of the project.

Additionally, the Principal Researcher is required to submit

- An Annual Progress report has to be submitted on completion of the project whichever is applicable (forms to be provided).

The Ethics Committee may conduct an audit at any time.

**List of the Approved documents**

- | S.No. | Documents                  | Version | No. of Copies |
|-------|----------------------------|---------|---------------|
| 1.    | Study Protocol             | 01      |               |
| 2.    | Informed Consent (English) | 01      |               |
| 3.    | Informed Consent (Hindi)   | 01      |               |
| 4.    | CV of Research Scholar     | 01      |               |
| 5.    | CV of Mentor               | 01      |               |

  
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Nr. 56, Mohanpur, Dist. - 250114





# SHODA Super Speciality Hospitals

- 6. Undertaking of Mentor 01
- 7. Behavioral Analysis Form 01
- 8. Cognitive Analysis Form 01

The above mentioned documents were examined and discussed in ethical committee meeting held on 22/06/2021. After consideration, the committee has cleared the above documents and given its approval for the same.

List of the ethical committee member who attended the meeting held on 22/06/2021 at which the submitted documents were discussed

- 1. Dr Sachin Rastogi ( Basic Medical Scientist)

*Sachin*



*[Signature]*  
 Registrar  
 Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya  
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*Bhuvaneshwari B*

Bhuvaneshwari B  
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Other Certifications offered

Basics of Tally | CRIC VAT using Tally | Financial Accounting using Tally | TDS using Tally

*Bhuvaneshwari B*

Bhuvaneshwari B  
Chief Executive Officer

Valid Till: 22-10-2022

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# Shobhit

Institute of Engineering & Technology

Dr. B.R. Mehta Group of Institutions

## Activity Report

Title of the Activity:	Digital India: Urgent Need for Semiconductor Manufacturing in India
Date	December 16, 2023
Coordinator of the activity	Prof. M. Mani, Professor, Emeritus and Chairman of VRS & CDMIS
Conducting Department	Centre for Future AI Technology Studies and Applications (CFASA)
Total Number of the Participants	291
Purpose of the Activity	To aware the participants about the urgent need to create a semiconductor ecosystem under digital India
Venue	SICT, campus, Meerut
Resource Person/In collaboration	Ajay Jalan, Founder & Managing Partner, Next Orbit Ventures, Mumbai
Financial Support	Rs. 40000
Photographs	
Outcome of the Activity	The participants were informed about the semiconductor manufacturing process
Feedback:	Participants have appreciated the efforts and information given by the convenor. Overall they were satisfied.

Signature of the Programme Coordinator

Signature of the Dean

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NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

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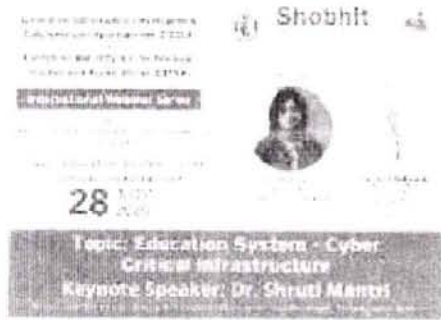


# Shobhit

Institute of Engineering & Technology

Centre for Industry & Technology Studies and Applications (CITS & A)

## Activity Report

<b>Title of the Activity:</b>	Education System – Cyber Critical Infrastructure
<b>Date</b>	November 28, 2020
<b>Coordinator of the activity</b>	Prof. M. Mohi, Professor, Emeritus and Chairman (CAIRS & CADMS)
<b>Conducting Department</b>	Centre for Industry & Technology Studies and Applications (CITS & A)
<b>Total Number of the Participants</b>	70
<b>Purpose of the Activity</b>	To create awareness about the advancement in the area of cyber security
<b>Venue</b>	Slit (online) Meet
<b>Resource Person/In collaboration</b>	Dr. Shruti Maurya, Associate Director, Indian School of Business, Hyderabad, Telangana State
<b>Financial Support</b>	Rs. 3000/-
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were informed about the latest infrastructure improvement in the area of cyber security in education system.
<b>Feedback:</b>	Participants were happy to get the knowledge in the area of cyber security in education system.

Signature of the Programme Coordinator: *Mohi*

Signature of the Dean/HOD/Director: *Mohi*

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NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

*Mohi*  
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NH-58, Modipuram, Meerut-250110

& Tech.  
20  
2020



## Activity Report

<b>Title of the Activity:</b>	Digital India Transforming Governance & Society
<b>Date</b>	November 07, 2020
<b>Coordinator of the activity</b>	Prof. M. Mohi
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	45
<b>Purpose of the Activity</b>	To provide awareness on "Transforming e-Governance for Transforming Governance"
<b>Venue</b>	SHU (Deemed to be University)
<b>Resource Person</b>	<b>Dr. Y. K. Sharma</b> Former Director General, National Informatics Centre Ministry of Electronics and Information Technology (MeitY), Government of India New Delhi
<b>Financial Support</b>	Rs. 1000

### Photographs



### Outcome of the Activity

The participants were introduced with a vision to transform India into a digitally empowered society and knowledge economy.

### Feedback:

Participants were happy to get the information about the advance digital technology and e-governance.

Signature of the Programme Coordinator -

Signature of the Dean/HOD/Director

Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





## Activity Report

<b>Title of the Activity:</b>	Ecosystem Architecture for Digital Transformation
<b>Date</b>	November 21, 2020
<b>Coordinator of the activity</b>	Prof. M. Moni, Professor, Emeritus and Chairman (CAIRS & CADMS)
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CITSA)
<b>Total Number of the Participants</b>	77
<b>Purpose of the Activity</b>	To give awareness about the Creation of a platform for a multidged business model (MSBM)
<b>Venue</b>	SIES campus, Meerut
<b>Resource Person/In collaboration</b>	Shri J. Satyanarayana, IAS (Retd), Former Secretary to Government of India, Former Chairman, Unique Identification Authority of India, Ministry of Electronics, New Delhi and Information Technology (MeitY), Govt. of India & Chief Advisor, Centre for 4th Industrial Revolution (India Centre) World Economic Forum
<b>Financial Support</b>	Rs. 4.00L
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participant were informed about the digital technologies which are continue developing and gaining adoption, they start enabling new ways of organising how value is created
<b>Feedback:</b>	Participants have appreciated the efforts and information given by the convener. Overall they were satisfied

Coordinator - Moni

Alpanshu

Shobhit Institute of Engineering and Technology  
NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

Register  
Shobhit Institute of Engg. & Tech.  
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NH-58, Modipuram, Meerut-250110

11/2020  
Page 2/30/110




# Shobhit

Institute of Engineering & Technology

UNIVERSITY OF UTTAR PRADESH


## Activity Report

<b>Title of the Activity:</b>	Ensuring Food Safety and Compliance through Technology
<b>Date</b>	December 12, 2023
<b>Coordinator of the activity</b>	Prof. M. Mond, Professor, Emeritus and Chairman of AIBS & CAQMS
<b>Conducting Department</b>	Center for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	73
<b>Purpose of the Activity</b>	To provide the knowledge about technological solutions that optimize the food safety protocols and make it faster, more accurate, and more efficient to conduct inventory, auditing, training and safe food site.
<b>Venue</b>	SHU campus Meerut
<b>Resource Person/In collaboration</b>	Dr. Arpita Mukherjee, Professor, Indian Council for Research in International Economic Relations (ICRIE), New Delhi
<b>Financial Support</b>	Rs. 7000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were informed about the technology that can ensure the food safety.
<b>Feedback:</b>	Participants have appreciated the efforts and information given by the organizer. Overall they were satisfied.

Signature of the Programme Coordinator: 

Signature of the Dean/HOD/Director: 

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NH-58, Modipuram,  
Meerut, Uttar Pradesh 250110

  
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NH-58, Modipuram, Meerut-250110

Dr. Arpita Mukherjee  
ICRIE  
New Delhi



## Activity Report

<b>Title of the Activity:</b>	India's eMail Service Citizen @ indmail.com in 22 Languages
<b>Date</b>	November 11, 2020
<b>Coordinator of the activity</b>	Prof. M. Mani, Professor, Emeritus and Chairman (CAIRS & CADMS)
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	52
<b>Purpose of the Activity</b>	To give awareness about the initiative of India's eMail Service
<b>Venue</b>	SIIET campus, Meerut
<b>Resource Person/In collaboration</b>	Dr. Seema Khatma, Deputy Director General, Head (Messaging Division) and Director Operations (MKN), National Informatics Centre, Ministry of Electronics and Information Technology, Government of India, New Delhi
<b>Financial Support</b>	Rs. 2,500
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The session was imperative for local speaking Indian population and promotes the 'Make In India' and 'Digital India' mission.
<b>Feedback:</b>	Local people were happy to know about the existence of the complex system.

Coordinator: Mani  
HOD Salpang

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# Shobhit

Institute of Engineering & Technology

EXCELLENCE IN KNOWLEDGE

## Activity Report

<b>Title of the Activity:</b>	Seizing Opportunities in Open Innovation and Value Creation Network in the Digital World for Self-Reliant Economy
<b>Date</b>	December 05, 2020
<b>Coordinator of the activity</b>	Prof. M. Mohi, Professor, Emeritus and Chairman of MISR & CIMSR
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	12
<b>Purpose of the Activity</b>	To provide the opportunities in open innovation and value creation network in the digital world for self-reliant economy
<b>Venue</b>	SEFI, online via Zoom
<b>Resource Person/in collaboration</b>	Dr. Jehanmal V. Vanchisrao, Principal Adviser, Knowledge Management Associates, Austria & Former Principal Adviser to the Director General, United Nations Industrial Development Organization (UNIDO), Vienna, Austria
<b>Financial Support</b>	Rs. 3000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were informed about the innovations, growth and competitive course, and findings the scaling up of smart Platform MISR's and Start-up in the country.
<b>Feedback:</b>	Participants have appreciated the efforts and information given by the conference. Overall they were satisfied.

Signature of the Programme Coordinator

*Mohi*

Signature of the Dean/HOD/Director -

*Mohi*

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# Shobhit

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## Activity Report

<b>Title of the Activity:</b>	Technology Investment in Agriculture Value Chain - Role of FDI
<b>Date</b>	December 26, 2023
<b>Coordinator of the activity</b>	Prof. M. Mani, Professor, Entrepreneurship & Chairman of AIEE & IABMIS
<b>Conducting Department</b>	Centre for Industry 4.0 Technology, Strategy and Applications (IISA)
<b>Total Number of the Participants</b>	84
<b>Purpose of the Activity</b>	To aware the participants about the role of FDI in technology investment in agriculture value chain
<b>Venue</b>	SHU, campus Meerut
<b>Resource Person/In collaboration</b>	Dr. Dhyanendra Kumar IAS (Retd), Former Chairman, Competition Commission of India, Founder Chairman, Competition Advisory Services (IIS), IIT & former secretary to Government of India, former Executive Director, IIS, World Bank
<b>Financial Support</b>	Rs. 1000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were informed about the utilization of technology to promote agriculture value chain
<b>Feedback:</b>	Participants have appreciated the efforts and information given by the organizers. Overall they were satisfied.

Signature of the Programme Coordinator: Mani

Signature of the Dean/COE Director: [Signature]

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20/12/23  
26/12/23  
25/12/23



## Activity Report

<b>Title of the Activity:</b>	Building Public Digital Platforms Using Micro services and APIs
<b>Date</b>	March 13, 2021
<b>Coordinator of the activity</b>	Prof. M. Mohan
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	70
<b>Purpose of the Activity</b>	The goal of the initiative is to address a single concern, such as a item search, logging function, or user service function.
<b>Venue</b>	Online (Zoomed by Shobhit University)
<b>Resource Person</b>	<b>Mr. Pawan Kumar Joshi</b> Deputy Director General (Quality Assurance & API Infrastructure Management Division, Nodal Centre for Mobile Application Development User Experience Design & Technology (UxDTE) Division, Centre of Excellence on Microservices & eTransport Mission Mode Project, National Informatics Centre (NIC) Ministry of Electronics and Information Technology (MeitY), Government of India, New Delhi)
<b>Financial Support</b>	Rs. 1000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to offer a reverse proxy to redirect or route requests (over loading, usually HTTP requests) to the endpoints of the internal microservices.
<b>Feedback</b>	Participants were contented to allow the separation between the service consumer and the micro service provider.

Signature of the Programme Coordinator -

Signature of the Dean/HOD/Director -

*Mohan*

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Deputy Director General (Quality Assurance & API Infrastructure Management Division, Nodal Centre for Mobile Application Development User Experience Design & Technology (UxDTE) Division, Centre of Excellence on Microservices & eTransport Mission Mode Project, National Informatics Centre (NIC) Ministry of Electronics and Information Technology (MeitY), Government of India, New Delhi

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 Director  
 Shobhit Deemed University  
 (Centre for Industry 4.0 Technology Studies and Applications)  
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### Activity Report

<b>Title of the Activity:</b>	Digital AgriTech - An Agri StartUp Perspective
<b>Date</b>	January 30, 2021
<b>Coordinator of the activity</b>	Prof. M. Meen
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CITSA)
<b>Total Number of the Participants</b>	82
<b>Purpose of the Activity</b>	The goal of the initiative is to expand the scale, speed, and productivity of farm equipment, leading to more efficient cultivation of more land. Seed irrigation and herbicides are being used to improve helping farmers increase yields.
<b>Venue</b>	SH 1 Deemed to be Univ. SH 1
<b>Resource Person</b>	<b>Mr. Deepak Pareek</b> , Managing Partner, HnyB Tech Incubations Pvt. Ltd (Angel Incubator for Enterprising Engineering & Management Consulting for Agriculture Ecosystem) Founder, AgriChain Technology, DigiAgri & MyCrop (AgTech Companies) & Technology Pioneer, World Economic Forum
<b>Financial Support</b>	Rs. 1000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to focus on developing farming industry and improving agribusiness. This technology can improve insect or pest resistance, herbicide or drought tolerance and disease resistance, giving farmers an additional tool to increase crop yield. Participants were contented to get the knowledge about the Technology and a digital first approach to farming, will aid in spearheading the movement of sustainable farming.
<b>Feedback:</b>	

Signature of the Programme Coordinator *M. Meen*

Signature of the Dean/HOD/Director *[Signature]*

*[Signature]*  
Centre for Industry 4.0 Technology Studies and Applications (CITSA)  
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*[Signature]*  
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(Office of the Dean, Faculty of Engg. & Tech.)  
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**Activity Report**

<b>Title of the Activity:</b>	Digital Transformation in Small Enterprises and Small Businesses of India - Challenges and Opportunities
<b>Date</b>	June 19, 2021
<b>Coordinator of the activity</b>	Prof. M. Meena
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	150
<b>Purpose of the Activity</b>	The goal of the initiative is to focus on empowering the Small & Medium Enterprises with the emergence of Digital Transformation.
<b>Venue</b>	SITF (Deemed to be University)
<b>Resource Person</b>	<b>R.K. Jeyabalan</b> , Founder & CEO - ConsoTree, Advisor - Technology Industry, Catalyst - Research, Industry Development, Madurai, State of Tamilnadu. Rs. 3000
<b>Financial Support Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to embrace new technologies to improve SMEs manufacturing process and improve ROI and at the same time changing the way of back-end operations via automation.
<b>Feedback:</b>	Participants were contented to adopt digital technology in place of traditional manual processes to transform your business in a positive way.

Signature of the Programme Coordinator - *Meena*

Signature of the Dean/HOD/Director - *Alpang*

*[Signature]*  
 Director  
 Centre for Industry 4.0 Technology Studies and Applications  
 Shobhit Deemed University

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*[Signature]*  
 Director  
 Centre for Industry 4.0 Technology Studies and Applications  
 Shobhit Deemed University  
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## Activity Report

<b>Title of the Activity:</b>	e-Governance Models towards Sustained Quality Services to Citizen backed up by Technology
<b>Date</b>	February 27, 2021
<b>Coordinator of the activity</b>	Prof. M. Mani
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIITSA)
<b>Total Number of the Participants</b>	170
<b>Purpose of the Activity</b>	The goal of the initiative is to use the ICTs in public administration which, when combined with organizational change and new skills, are intended to improve public services and democratic processes and to strengthen support to the public.
<b>Venue</b>	SHU (Deemed to-be-University)
<b>Resource Person</b>	<b>Dr. V. S. Raghunathan</b> , Deputy Director General & Head, Open Technology Group, National Informatics Centre (NIC), Ministry of Electronics and IT (MeitY), Government of India, Chennai
<b>Financial Support</b>	Rs. 3000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised that e-governance is just not sufficient due to the complexity from wide variety of application architectures mix from both legacy and modern worlds that need to be brought into the purview of e-governance.
<b>Feedback:</b>	Participants were contented to get the knowledge to make government administration more transparent, speedy and accountable while addressing the society's needs and expectations through efficient public services and effective interaction between the people, businesses, and government.

Signature of the Programme Coordinator

*Mani*

Signature of the Dean/HOD/Director

*Alpesh*

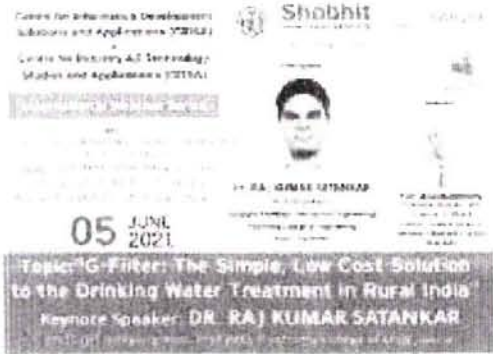
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*Alpesh*  
 (Deputy Director of Engrg. & Tech  
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### Activity Report

<b>Title of the Activity:</b>	G-Filter: The Simple, Low Cost Solution to the Drinking Water Treatment in Rural India
<b>Date</b>	June 05, 2021
<b>Coordinator of the activity</b>	Prof. M. Mohan
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	176
<b>Purpose of the Activity</b>	The goal of the initiative is to point out the various low cost water treatment method suitable in rural area as Bamboo charcoal (Activated carbon), Solar distillation, distillation, Chlorine filters, Boze, Everything but the-bank portable filter, Slow sand filtration, and Emergency homemade filter.
<b>Venue</b>	SHU (Deemed to be university)
<b>Resource Person</b>	<b>Dr. Raj Kumar Satankar</b> , Prof. (H. Jodhpur), Associate Professor (Mechanical Engineering), Purnima College of Engineering, Jodhpur, Rajasthan Raj. 342001
<b>Financial Support</b>	
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to carry out with low cost water treatment sustainable real options for rural infrastructures.
<b>Feedback:</b>	Participants were contented to prepare a homemade solution that provides clean affordable drinking water to the Indian rural community.

Signature of the Programme Coordinator - *Mohit*

Signature of the Dean/HOD/Director - *Alpana*

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## Activity Report

<b>Title of the Activity:</b>	Entrepreneurship and Skill Development - AI Design Pathways
<b>Date:</b>	January 02, 2021
<b>Coordinator of the activity:</b>	Prof. M. Mani, Professor, Emeritus and Chairman, CARRS & CADMS
<b>Conducting Department:</b>	Centre for Industry 4.0 Technology Studies and Applications (CIASA)
<b>Total Number of the Participants:</b>	2
<b>Purpose of the Activity:</b>	To provide the knowledge for designing and improving the AI applications for entrepreneurship and skill development.
<b>Venue:</b>	SIET, Gurgaon, Meerut
<b>Resource Person/In collaboration:</b>	Lalit Gupta, Co-Founder & Vice-President (India and ASEAN) Education, World's Top Intelligent, Micro-Budget or System on Demand & Franchise Vice-President (Asia Pacific & Japan) Oracle Corporation, Ky. USA
<b>Financial Support:</b>	Rs. 5000
<b>Photographs:</b>	
<b>Outcome of the Activity:</b>	The participants were informed about the AI technology to enhance entrepreneurship and skill development.
<b>Feedback:</b>	Participants have appreciated the efforts and information given by the guest speaker. Overall they were satisfied.

Signature of the Programmatic Coordinator -

Signature of the Dean/HOD, Directorate

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*Rohit*  
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### Activity Report

<b>Title of the Activity:</b>	Health Informatics Network Value Chain - Clinical AI - Interface between Machine Learning and Health Informatics
<b>Date</b>	May 22, 2021
<b>Coordinator of the activity</b>	Prof. M. Mittal
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (IITS A)
<b>Total Number of the Participants</b>	48
<b>Purpose of the Activity</b>	The goal of the initiative is to design and develop algorithms which can automatically learn from data and thus can improve with experience over time without any human-in-the-loop.
<b>Venue</b>	SIT (Deemed to be University)
<b>Resource Person</b>	<b>Dr. Surbhi Vaish Mittal</b> , President, Arogyam Institute of Integrated Medical Sciences, ReTHINK India Foundation, New Delhi (Practitioner of Integrating AI/ML with AMI SIs), New Delhi <b>Raghav Mittal</b> , Founder, Editor & Chief Ideation Officer, ReTHINK INDIA & Co-Founder, Arogyam Aayush Healthcare Foundation, New Delhi
<b>Financial Support</b>	Rs. 5000
<b>Photographs</b>	



<b>Outcome of the Activity</b>	The participants were advised to emphasize that successful application of machine learning for health informatics requires a concerted effort of experts from seven different areas including data science, machine learning algorithms, graph theory, network science, computational topology, entropy, data visualization and visual analytics, and privacy, data protection, safety, and security.
<b>Feedback:</b>	Participants were contented to exhibit the practice of acquiring, studying and managing health data and applying medical concepts in healthcare.

Signature of the Programme Coordinator: *[Signature]*  
 Signature of the Dean (IITD) *[Signature]*

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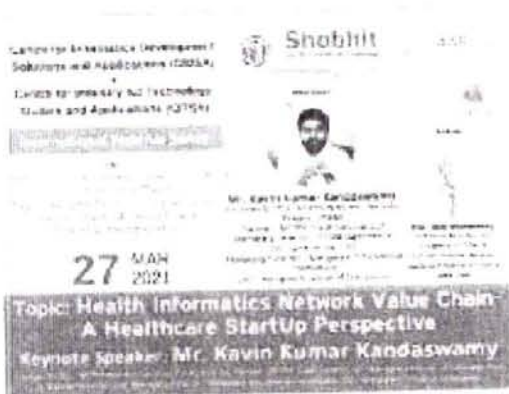
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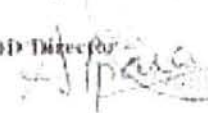
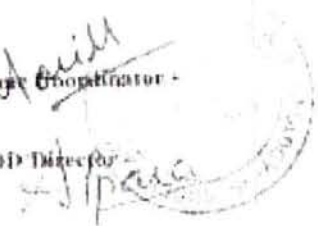
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## Activity Report

<b>Title of the Activity:</b>	Health Informatics Network Value Chain- A Healthcare Startup Perspective
<b>Date</b>	March 27, 2021
<b>Coordinator of the activity</b>	Prof. M. Mani
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIUSA)
<b>Total Number of the Participants</b>	72
<b>Purpose of the Activity</b>	The goal of the initiative is to foster the knowledge of healthcare information systems, databases and information technology security to gather, store, interpret and manage the massive amount of data generated when care is provided to patients.
<b>Venue</b>	SIU (Deemed to be University)
<b>Resource Person</b>	<b>Mr. Kavin Kumar Kandaswamy</b> , Founder & CEO - MYPP Wellness Services Private Limited Partner - MYPP Trade Services LLP Managing Director - K5 Management & Edu Services Pvt. Ltd. Managing Director - Mangalam Educational Institutions CEO - Mangalam Group of Companies
<b>Financial Support</b>	Rs. 3000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to examine the role of computers that could play in helping to diagnose medical disease.
<b>Feedback:</b>	Participants were contented to exhibit the practice of accessing, studying and managing health data and applying medical concepts in conjunction with health information technology systems to help clinicians provide better healthcare.

Signature of the Program Coordinator - 

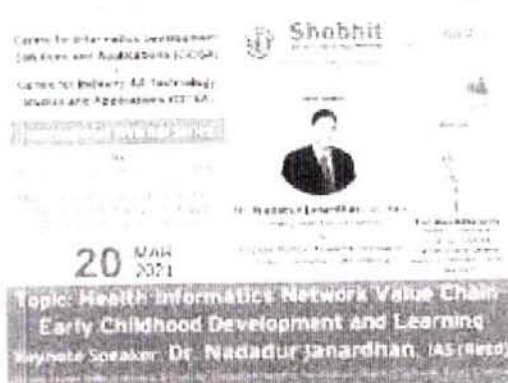
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## Activity Report

<b>Title of the Activity:</b>	Health Informatics Network Value Chain: Early Childhood Development and Learning
<b>Date</b>	March 20, 2021
<b>Coordinator of the activity</b>	Prof. M. Moh
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	07
<b>Purpose of the Activity</b>	The goal of the initiative is to enable better collaboration and coordination among healthcare providers, streamlining medical quality assurance processes, improving cost efficiency in healthcare delivery and increasing accuracy and efficiency in facility practice management.
<b>Venue</b>	SHET (Deemed to be University)
<b>Resource Person</b>	<b>Dr. Nadadur Janardhan, IAS (Retd)</b> , Former United Nations Advisor & Founder Trustee of Haseltra Foundation (Public Charitable Trust), Chennai Rs. 3000
<b>Financial Support Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to make health professionals to detect, treat, and mitigate both natural health and terrorism emergencies.
<b>Feedback:</b>	Participants were delighted to improve the standardization of patient information making it easier for future health care professionals to streamline their own practices.

Signature of the Programme Coordinator

Signature of the Dean/HOD

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## Activity Report

<b>Title of the Activity:</b>	Health Informatics Network Value Chain: Importance of Social Medicine and Community Health in the times of Health Emergency
<b>Date:</b>	May 29, 2021
<b>Coordinator of the activity:</b>	Prof. M. Moni
<b>Conducting Department:</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants:</b>	80
<b>Purpose of the Activity:</b>	The goal of the initiative is to provide social care by understanding how social and economic conditions affect health and illness, and foster the conditions that lead to a healthier society.
<b>Venue:</b>	SHU (Deemed to be University)
<b>Resource Person:</b>	<b>Dr. Sanghmitra Sheel Acharya</b> , Professor, Centre of Social Medicine and Community Health, School of Social Sciences, Jawaharlal Nehru University, New Delhi & Former Director, Indian Institute of Data Studies, New Delhi
<b>Financial Support:</b>	Rs. 3000
<b>Photographs:</b>	
<b>Outcome of the Activity:</b>	The participants were advised to foster the conditions in which the social and economic conditions impact health, disease and the practice of medicine that can lead to a healthier society.
<b>Feedback:</b>	Participants were contented to organize investigation of social, genetic, and environmental factors influencing human disease and disability and promotion of methods of prevention of disease and health measures protective of individual and community.

Signature of the Programme Coordinator - *Moni M.*

Signature of the Dean/HOD-Director - *S. Chandra*

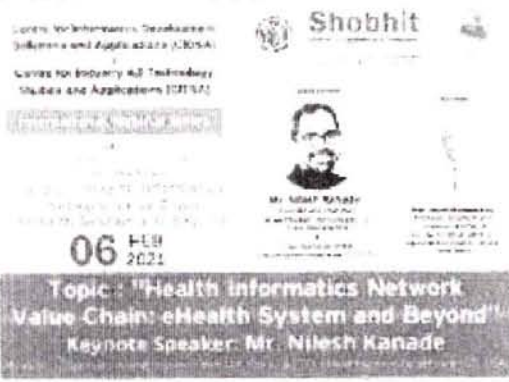
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### Activity Report

<b>Title of the Activity:</b>	Health Informatics Network Value Chain: e-Health System and Beyond
<b>Date</b>	February 06, 2021
<b>Coordinator of the activity</b>	Prof. M. Mani
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIUSA)
<b>Total Number of the Participants</b>	58
<b>Purpose of the Activity</b>	The goal of the initiative is to enable the consumers to easily obtain health services online from global providers.
<b>Venue</b>	CIUSA Classroom (2nd Floor)
<b>Resource Person</b>	<b>Mr. Nilesh Kanade</b> , Founder and Chairman, e-Health System Technologies LLP Pune, Maharashtra & Chief Executive Officer, e-Health system Healthcare LLC, U.S.A.
<b>Financial Support</b>	Rs. 3000
<b>Photography</b>	
<b>Outcome of the Activity</b>	The participants were advised to focus on the application of information and communications technology to provide digital health interventions to prevent disease and improve quality of life.
<b>Feedback:</b>	Participants were contented to get the knowledge to assess new programs, look for areas of improvement within the healthcare sector and integrate new technologies into medicine.

Signature of the Programme Coordinator

Signature of the Dean/BOD Director -

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## Activity Report

<b>Title of the Activity:</b>	Indian MSMEs to adopt Industry 4.0 Technology Capabilities - Urgent Need for Mentorship and Accelerator Programme
<b>Date:</b>	March 06, 2021
<b>Coordinator of the activity:</b>	Prof. M. Mohan & Mr. Muk Varshney
<b>Conducting Department:</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants:</b>	57
<b>Purpose of the Activity:</b>	The goal of the initiative is to provide opportunity for budding entrepreneurs to build creative products, enhance business competition and fuel growth.
<b>Venue:</b>	SDET (Deemed to be University)
<b>Resource Person:</b>	<b>Alagiri Govindasamy</b> , Industry 4.0 Architect and ERP Consultant & Director, Future Connect & PMC Global Systems (Industry 4.0 Specialist)
<b>Financial Support:</b>	Rs. 5000
<b>Photographs:</b>	
<b>Outcome of the Activity:</b>	The participants were advised to consider domestic alternatives, evolution in key business sectors of the economy, and evaluate initial MSME policies across developing and developed economies.
<b>Feedback:</b>	Participants were contented to get the knowledge to make 'Digital India' revolution also provides a great opportunity to promote MSME participation in the Information, Communication and Telecommunication (ICT) sector, in line with the government vision.

Signature of the Programme Coordinator: *[Handwritten Signature]*

Signature of the Deputy Director: *[Handwritten Signature]*

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 Director  
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## Activity Report

<b>Title of the Activity:</b>	Industry 4.0 in MSMEs - Benefits of Indigenously Developed CollabCAD - 3D CAD and PLM Software from NIC
<b>Date</b>	July 03, 2021
<b>Coordinator of the activity</b>	Prof. M. Mohan
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CI4SA)
<b>Total Number of the Participants</b>	135
<b>Purpose of the Activity</b>	The goal of the initiative is to provide a great platform to students across the country to create and modify 3D designs with free flow of creativity and imagination.
<b>Venue</b>	SIL-1 (Deemed to-be-University)
<b>Resource Person</b>	<b>Guntuku Prasad</b> , Senior Technical Director, (Scientist-E), Head, CollabCAD Division, National Informatics Centre, Ministry of Electronics and Information Technology, Government of India, New Delhi
<b>Financial Support</b>	Rs. 1,00,000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to materialize student's ideas and creativity into physical solutions to enable designing without restraints and thus allowing creativity and innovation to thrive.
<b>Feedback:</b>	Participants were convinced to carry out the benefits of indigenously developed CollabCAD - 3D CAD and PLM Software from NIC.

Signature of the Programme Coordinator -

Signature of the Dean/HOD Director -


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## Activity Report

<b>Title of the Activity:</b>	Leveraging Emerging Technologies for Ensuring Transparent and Traceable Agri and Food Supply Chains
<b>Date</b>	February 13, 2021
<b>Coordinator of the activity</b>	Prof. M. Mohan
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	67
<b>Purpose of the Activity</b>	The goal of the initiative is to provide an integrated framework of Sustainable Supply Chain Transparency (SSCT) in Sustainable Supply Chain Management (SSCM) and digitalization as a potential solution, and highlight directions for future research.
<b>Venue</b>	SHU (Deemed to-be-University)
<b>Resource Person</b>	Shrivatsa Sreenivasarao, Co-Founder, TraceX Technologies, Bengaluru, CA & AgriTech StartUp & Co-Founder, Invalium, Bengaluru (An AgriTech StartUp in 2019)
<b>Financial Support</b>	Rs. 7000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to foster discussion and encourage the application of blockchain technology, especially in the agri-food industry.
<b>Feedback:</b>	Participants were contented to get the knowledge of how blockchain technology could be implemented in agri-foods to realize a better performance of food safety, quality, and sustainability.

Signature of the Program Coordinator

Signature of the Dean/HOD Director

Shobhit Deemed University, NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110







**Shobhit**  
Deemed to be University

### Activity Report

<b>Title of the Activity:</b>	Mass Serialisation and Anti-Counterfeiting Solutions to fight Imitation Trade
<b>Date</b>	July 17, 2021
<b>Coordinator of the activity</b>	Prof. M. Mohan
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	194
<b>Purpose of the Activity</b>	The goal of the initiative is to secure global supply chains against the threat of counterfeit goods through greater visibility, traceability and transparency.
<b>Venue</b>	SCIT (Distance Education) Unit
<b>Resource Person</b>	<b>Johnny Samuel S.</b> , Young Entrepreneur & Founder & CEO, Rezzion (A ICB StartUp), Founder & CEO, Tesserae Lights, Chennai, Tamil Nadu, Rs. 4000
<b>Financial Support</b>	
<b>Photographs</b>	



<b>Outcome of the Activity</b>	The participants were advised to enable more productive mutually beneficial relationships among trading partners by enabling more rapid detection and recall of unsafe or counterfeit products.
<b>Feedback:</b>	Participants were contended to provide insights into the increasing threats posed by counterfeit and illicit trade and to outline how ICB's global standards, services and solutions can play a vital role in counteracting the problem.

Signature of the Programme Coordinator - *M. Mohan*

Signature of the Dean/HOD/Director - *A. Prang*


Shobhit Deemed University, NH 58, Modipuram, Meerut, Uttar Pradesh 250110

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Page No. 1/1  
Date: 17/07/2021  
250110



## Activity Report

<b>Title of the Activity:</b>	National Digital Twin Programme - Need for a Robust Geospatial Infrastructure
<b>Date</b>	June 26, 2021
<b>Coordinator of the activity</b>	Prof. M. Meena
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	67
<b>Purpose of the Activity</b>	The goal of the initiative is to provide businesses with a complete visibility and situational awareness to enable informed decision making.
<b>Venue</b>	911 E-Discovery for Universities
<b>Resource Person</b>	<b>Vishnu Chandra</b> , Deputy Director General & Head of Group, Geospatial Technologies and Services Division, National Informatics Centre, Ministry of Electronics and Information Technology, Government of India, New Delhi.
<b>Financial Support</b>	Rs. 3000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to model and simulate changes in the real world that feeds into the Digital Twin ecosystem.
<b>Feedback:</b>	Participants were motivated to democratize data access and enable collaboration between industries and disciplines.

Signature of the Programme Coordinator -

Signature of the Dean/HOD/Director

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Meerut, Uttar Pradesh 250110

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NH-58, Modipuram, Meerut-250110



## Activity Report

<b>Title of the Activity:</b>	Role of Artificial Intelligence in Healthcare: Current Developments in Diagnosis and Vaccine Research
<b>Date</b>	January 23, 2021
<b>Coordinator of the activity</b>	Prof. M. Mann
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	112
<b>Purpose of the Activity</b>	The goal of the initiative is to use AI as a decisive technology to analyze, prepare for, prevent and fight with COVID-19 (Coronavirus) and other pandemics.
<b>Venue</b>	SJET (Deemed to be University)
<b>Resource Person</b>	<b>Mr. Vivek Verma</b> , Advisor, Algorithm Inc. (An Artificial Intelligence Start-Up), New Jersey, USA & Director, Sooham Analytics (An Educational Training Start-Up), Raipur, India
<b>Financial Support</b>	Rs. 1000
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were advised to focus on medical imaging analysis, drug discovery, and therapeutics such as vaccine development and public health decision-making using AI.
<b>Feedback:</b>	Participants were delighted to get the knowledge about the development in AI and ML has significantly improved treatment, medication, screening, prediction, forecasting, contact tracing, and drug vaccine development process for the Covid-19 pandemic and reduce the human intervention in medical practice.

Signature of the Programme Coordinator

Signature of the Dean/HOD

Shobhit Deemed University, NH 58, Modipuram,  
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NH-58, Modipuram, Meerut-250110





## Activity Report

<b>Title of the Activity:</b>	The Era of Automation, Industrial Robotics and Industry 4.0 - Indo-German Perspective of Technology, Transfer, Skill Gap Analysis and Opportunities
<b>Date:</b>	January 16, 2021
<b>Coordinator of the activity:</b>	Prof. M. Mohan
<b>Conducting Department:</b>	Centre for Industry 4.0 Technology Studies and Applications (CI4SA)
<b>Total Number of the Participants:</b>	76
<b>Purpose of the Activity:</b>	The goal of the initiative is transformation of industrial manufacturing through digitalization and exploitation of potentials of new technologies.
<b>Venue:</b>	Shobhit (Deemed to be University)
<b>Resource Person:</b>	<b>Mr. Raj Vangapandu</b> President, Germany Varsity, Germany President for India Affairs, European Centre for Mechatronics, Germany, Founder Indo Euro Synchronization, Member, NIOS Committee Industrial Robotics - Electronics Skill Council of India
<b>Financial Support:</b>	Rs. 3000
<b>Photographs:</b>	
<b>Outcome of the Activity:</b>	The participants were advised to focus on the automation of the industrial world. It provides the implementation of Information Communication Technology (ICT) in the digital world as the backbone of its current existence.
<b>Feedback:</b>	Participants were contented to get the knowledge about the automation and data exchange in manufacturing technologies and processes which include cyber-physical systems (CPS), i.e., industrial internet of things, cloud computing, cognitive computing, and artificial intelligence.

Signature of the Programme Coordinator

Signature of the Dean/HOD/Director

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Meerut, Uttar Pradesh 250110

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(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



## Activity Report

<b>Title of the Activity:</b>	The Rise of Platform Economy - Revisiting Value Chain Governance
<b>Date:</b>	January 09, 2021
<b>Coordinator of the activity:</b>	Prof. M. Mani
<b>Conducting Department:</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants:</b>	64
<b>Purpose of the Activity:</b>	Digital platforms enable full-lifecycle participation and responsible governance guided by a shared infrastructure vision
<b>Venue:</b>	SIICT, Deemed to be University
<b>Resource Person:</b>	<b>Prof. Dr. Charu Malhotra</b> , Coordinator (Centre for e-Governance), Indian Institute of Public Administration, New Delhi
<b>Financial Support:</b>	Rs. 5000
<b>Photographs:</b>	
<b>Outcome of the Activity:</b>	The participants were advised the relationships among the buyers, sellers, service providers and regulatory institutions that operate within or influence the range of activities required to bring a product or service from inception to its end use
<b>Feedback:</b>	Participants were contented to get the knowledge about the productivity and incomes in both developed and developing countries

Signature of the Programme Coordinator

*Mani*  
M. Mani  
CIISA

Signature of the Dean/HOD/Director

*Mani*  
M. Mani

Engg. & Tech  
2021  
Date: 01/29/21

Shobhit Deemed University, NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

*Mani*  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110



# Shobhit

Institute of Engineering & Technology

WOMEN EMPOWERMENT

## Activity Report

Title of the Activity*	Democratizing the Future of Farming - A Global Experience
Date	November 04, 2021
Coordinator of the activity	Prof. M. Moni, Professor, Emeritus and Chairman (CAIRS & CADMS)
Conducting Department	Centre for Industry 4.0 Technology Studies and Applications (ITSAT)
Total Number of the Participants	27
Purpose of the Activity	To provide the insights about future farming system globally for enabling farmer's engine by 2022
Venue	SIIT, campus Meerut
Resource Person(s) collaboration	Mr. Krishna C. Mishra, Founder and Chairman, Narmada Labs Private Limited, Bhubaneswar, Odisha
Financial Support	Rs. 2,00,000
Photographs	
Outcome of the Activity	The participants were informed about the perspective of increasing farmer's income through future farming system
Feedback:	Participants have appreciated the efforts and information given by the guest speaker

Signature of the Programme Coordinator

Signature of the Dean/HOD/Director - *M. Moni*

Shobhit Institute of Engineering and Technology  
NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

Shobhit Institute of Engineering & Technology

Meerut, Uttar Pradesh 250110

*[Signature]*  
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Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110




# Shobhit

Institute of Engineering & Technology

110101, Modipuram, Meerut, U.P. - 250110

## Activity Report

<b>Title of the Activity:</b>	Dairy Informatics Network Value Chain - A Dairy Tech Startup Perspective for Farmer Income Increase
<b>Date</b>	May 27, 2021
<b>Coordinator of the activity</b>	Prof. M. Mani, Professor, Emeritus and Chairman of AIRS & C-ADMS
<b>Conducting Department</b>	Centre for Industry 4.0 Technology Studies and Applications (CIISA)
<b>Total Number of the Participants</b>	034
<b>Purpose of the Activity</b>	To provide the knowledge about dairy informatics network value chain to dairy farming sector.
<b>Venue</b>	SHU Campus, Meerut
<b>Resource Person in collaboration</b>	Mr. Vikarsh Kapoor, CEO, E-Infomilk, Hyderabad, India, Co-Founder
<b>Financial Support</b>	Rs. 5000/-
<b>Photographs</b>	
<b>Outcome of the Activity</b>	The participants were educated about the perspective of Dairy Tech startups for increasing farmer income through dairy informatics network value chain.
<b>Feedback:</b>	Participants have appreciated the efforts and information given by the guest speaker. Overall they were satisfied.

Signature of the Programme Coordinator: *[Signature]*

Signature of the Dean/HOD/Director: *[Signature]*

Shobhit Institute of Engineering and Technology  
NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

*[Signature]*  
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NH-58, Modipuram, Meerut, U.P. - 250110





## Activity Report

**Title of the Activity:** Open Source GovTech Startups - Empowering Growth with Automation

**Date:** June 12, 2022

**Coordinator of the activity:** Prof. M. Mani

**Conducting Department:** Centre for Industry 4.0 Technology Studies and Applications (IUCSA)

**Total Number of the Participants:** 85

**Purpose of the Activity:** The goal of the initiative is to focus on the jobs that require critical thinking and free them from busy work.

**Venue:** IUCSA (Deemed to be University)

**Resource Person:** Prakash Ramaswamy, Strategic Advisor, Automate Technologies (A GovTech Startup) Chennai & Director (Project Delivery) MS1 Solutions, Coimbatore Tamil Nadu

**Financial Support:** Rs. 5000

**Photographs:**



**Outcome of the Activity:** The participants were advised about the open source no-tech startups to Empower the growth with automation.

**Feedback:** Participants were contacted to acquire new resources before starting automation work improving the current process before automating it eliminating the need for a technical support team.

Signature of the Programme Coordinator: *Mani*

Signature of the Dean/HOD/Director: *Alpana*



Shobhit Deemed University, NH 58, Modipuram,  
Meerut, Uttar Pradesh 250110

*Registrar*  
Registrar  
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NH-58, Modipuram, Meerut-250110





**Shobhit**  
Institute of Engineering & Technology  
Deemed to-be-University

EDUCATION EMPOWERS

**Shobhit Institute of Engineering & Technology**  
(A NAAC Accredited Deemed to-be University)  
NH-58, Modipuram, Meerut 250 110, INDIA  
T. : 0121-2575091, F. : 0121-2575724  
E. : mail@shobhituniversity.ac.in  
U. : [www.shobhituniversity.ac.in](http://www.shobhituniversity.ac.in)

To,

Date- 18/01/2021

The Principal/Manager  
Noble Public School  
Garh Road, Meerut

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

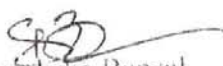
As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from .....to..... (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.

Name- Shubham Singh Adhana  
Father's name- Rajendra Singh  
Roll No.- MRT19UGBED009

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut



  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to-be University)  
NH-58, Modipuram, Meerut-250110





# NOBLE PUBLIC SCHOOL

Affiliated to C.B.S.E. Delhi No. 2130274

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Shubham Singh Adhana S/o Rajendra Singh** student of B.Ed. II year of **School of Education Shobhit University, Meerut** has **Online/Offline** completed his internship program from **20<sup>th</sup> January 2021 to 20<sup>th</sup> May 2021**

He has actively participated in all activities organized during this period.

He has taught according to the time table of the school.

We wish him a bright future.

Principal



*[Signature]*  
Registrar  
Shobhit University of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut - 250110

---

Near Medical College, Garh Road, P.O.L.L.R.M. Medical College, Meerut - 250004

To,

Date- 15/01/2021

The Principal/Manager

..... Punjab Public School

..... Mukerian, Code:- 20670

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 20-01-2021 to 20-05-2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.

Name- Shubhi Sethi

Father's name- Sanjay Sethi

Roll No.- MRT1909BED022

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110





# PUNJAB PUBLIC SCHOOL

Mansurpur, Mukerian, Distt. Hoshiarpur (Pb.)

(Affiliated to C.B.S.E. New Delhi Vide Code No. 1030690, School Code 20070)

E-Mail : ppsmansurpur@yahoo.com

Ref. No. 0116/PPS/2021/Int.Cer-I

Dated - 26-05-2021

## INTERNSHIP CERTIFICATE

This is certify that Shubhi Sethi D/O sh. Sanjay Sethi, student of B.Ed. II year program/course at SHOBHIT UNIVERSITY, MEERUT, under roll no.MRT19UGBED022 has participated Internship program conducted at PUNJAB PUBLIC SCHOOL, MANSURPUR from 20-01-2021 to 20-05-2021.

During the Internship she worked as an English teacher in our school and she proved herself to be hard working. Her performance was of good quality, whereas the contribution to the project was commendable. She got good evaluation of her work from colleagues and school administration. Besides, she demonstrated her professional skill as under (marks 1-10, when 10 is the highest marks):

\*Presentation skills-9

\*Leadership skills-9

\*Language skills-9

\*Training skills-9

\*Team skills-9

Our school wish her good luck for her future.

Principal

Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-58, Meerut, Uttar Pradesh-250110

Utkarsh Shukla\*, Niraj Singhal and Rajiv Srivastava

# Solitons based optical packet switch analysis

<https://doi.org/10.1515/joc-2021-0064>

Received March 7, 2021; accepted June 19, 2021;  
published online July 13, 2021

**Abstract:** Due to the evolution of data centric applications demand for high speed data transfer and more bandwidth is increasing continuously. The unavailability of components like tunable wavelength converters (TWCs) restrict the transfer of parallel information using wavelength division multiplexing (WDM), therefore in the present scenario optical orthogonal frequency division multiplexing can be used. Moreover in optical communication narrow Gaussian pulses are transmitted, which spread with distance and leads to the broadening of the pulse and pulse peak power goes down and thus limits the system. In this paper a Soliton based optical communication system is proposed and its comparison with Gaussian pulse is presented and it has been found that soliton pulse has lesser bit error rate in comparison to Gaussian pulses.

**Keywords:** BER; optical data storage; solitons.

## 1 Introduction

Data centers are most important infrastructure for high speed data transfer mechanism. Data centers are huge infrastructure and are part of the backbone network. Therefore, bottleneck in data centers can lead to serious issues. Currently, due to the electronic processing in data centers speed bottlenecks occurs [1–4]. To overcome limitations of electrical systems optical communication can be used. However, due to the unavailability of optical RAMs all optical data transfer is not feasible, therefore hybrid technology where data movement is done optically, while control operation is done using electronics is preferred choice [5–12]. In optical packet switching, fiber delay lines are used as a replacement of electronic RAMs.

However, storage time is very limited in FDL due to the accumulation of losses, dispersion induced pulse broadening and noises therefore in case of long term storage only electronic buffer is only choice. Thus advantages of optical communications are lost; still the storage duration can be increased by counter balancing the pulse broadening by self-phase modulation and resultant pulse is known as Soliton pulses.

For the contention resolution of packets recently a re-circulating type buffer is proposed, the idea of re-circulating type buffer was suggested for comparatively longer duration storage. In this design packets arriving at the switch inputs are either directly passes through the switch or in case of contention placed in the buffer. For the direct as well as for buffer transfer wavelength dependent routing pattern of the AWG is used. The wavelength selection is done using electronic controller, and wavelengths are tuned using the input TWCs. The length of fiber in buffer is integral multiple of slot duration and maximum duration is  $mL$ , where  $L$  is slot length. The splitter and combiner are used for the separation and combining of packets and wavelengths of the packets are controlled using buffer TWC. The combination of splitter, TWC and combiner is define as OTSI (Optical time slot interchanger), therefore by tuning packets wavelengths appropriately and can be switched in different OTSI. For further details on the switch can be found in [11]

In our previous work analysis has been carried out for the evaluation of the switch in terms of BER, and how effect of noise can be minimized by using varying length of buffer FDLs [11]. In our recent work effect of dispersion is considered while evaluating BER, and for dispersion compensation dispersion compensated fibres are considered and analysis is re-performed [13]. In this paper, analysis is done while considering Soliton pulse. The analysis is performed on the switch design shown in Figure 1.

The rest of the paper is organised as follows, in Section 2, pulses description is detailed, and results are detailed in Section 3 of the paper. Finally, in Section 4 major conclusions of the papers are discussed.

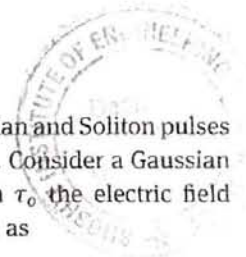
## 2 Pulses description

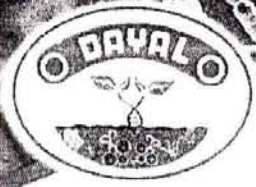
In this section evolution of the Gaussian and Soliton pulses as they move in the fiber is detailed. Consider a Gaussian input pulse with an effective width  $\tau_0$ , the electric field associated with pulse can be written as

\*Corresponding author: Utkarsh Shukla, Department of Computer Science and Engineering, School of Engineering and Technology, Shobhit Institute of Engineering and Technology, Meerut 250110, India, E-mail: utkshuktaphd19@gmail.com

Niraj Singhal, Department of Computer Science and Engineering, School of Engineering and Technology, Shobhit Institute of Engineering and Technology, Meerut 250110, India

Rajiv Srivastava, Indian Institute of Technology, Jodhpur, Rajasthan, India





## DAYAL BIOTECH (P) LIMITED

Delhi Road, Partapur, Meerut - 250 101  
0121-2440028, 2440130-132, Toll Free : 1800 270 1975  
www.dayalgroup.com ☉ biotech@dayalgroup.com  
CIN : U74899DL1988PTC032560

November 20, 2021

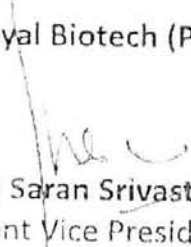
### TO WHOM IT MAY CONCERN


This is to certify that **Ms. Sonali Singhwal** D/o Sh. Subhash Chand, student of B.Sc. (Ag.) at Shobhit University, has undergone Summer Internship from **August 02, 2021** to **October 01, 2021** in the Bio Lab of our Organization. During the Internship she worked on the projects titled "**Isolation & Identification Of Ampelomyces Quisqualis And Mass Production & Its Potentiality Against Powdery Mildew Diseases In Crops**".

During this period her conduct & behavior has been found satisfactory.

We wish her great success in his future endeavors

For Dayal Biotech (P) Limited

  
Neeraj Saran Srivastava  
Assistant Vice President  
Human Capital & Administration

  
Shobhit Institute of Engg & Tech.  
(Deemed to be University)  
NH-58, Meerut  
Meerut-250110



Dr. Alpana Joshi &lt;alpana.joshi@shobhituniversity.ac.in&gt;

**Consent letter for internship**

1 message

Dr. Alpana Joshi <alpana.joshi@shobhituniversity.ac.in>  
To: Jitendra Kumar <jitendra.kumar@dayalgroup.com>

Tue, Jul 27, 2021 at 10:32 AM

Dear Sir/Madam,

Our students are interested in an internship at Dayal Grp of the company as a part of their RAWE program of B.Sc Ag degree and I am sending a consent letter regarding that in the attached files.  
Let me know if anything else is required from my side,

Thank you,

--

**Dr. Alpana Joshi**


Associate Professor


Department of Agriculture &amp; Agri-Informatics

School of Biological Engineering &amp; Sciences

Shobhit Deemed University

**Mobile: 9634712358****E-mail id:** joshi.alpana@gmail.com**URL:** www.shobhituniversity.ac.in

 Internship\_Letter\_SONALI.pdf  
366K

  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-58, Meerut Road, Meerut-250110





# GYAN SAROVER HIGHER SECONDARY SCHOOL

LAKHWAYA - RASOOLPUR, MEERUT.

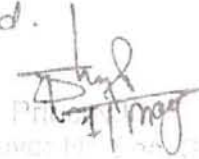
CERTIFICATE OF COMPLETION  
OF -16- WEEK SCHOOL  
INTERNSHIP

Ref. No.


Dated : 1 / May / 2021

Certified that as per the order No. 8  
Date-25 / Jan of the chief educational officer, Dinesh  
Chaprana Throum / Tmt. / Selvi (Reg: No. 027 ),  
a II year B.Ed student of SHOBHIT UNIVERSITY  
college of Education internship has undergone the  
16-week Internship successfully in our  
school in the Pedagogy subject "English"  
History from Ms. SUNITA to SONAL GOSWAMI

The above certificate is issued based on  
the attendance register maintained in our  
school during the above period.

  
Principal

(Gyan Sarover Higher Secondary School)

  
Registrar  
Shobhit Institute of Engg. & Tech.  
(Deemed to be University)  
NH-55, S.G.P. Road, Meerut-250112



# A Survey of Recommendation Systems

Sushma Malik, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, India

Anamika Rana, Maharaja Surajmal Institute of Technology, Delhi, India

<https://orcid.org/0000-0002-6201-7831>

Mamta Bansal, Shobhit University, Meerut, India

## ABSTRACT

Today's internet is able to discover almost any product or piece of information. The large amounts of unfiltered information returned by an internet query calls for filters able to validate and rank the available options. Recommender systems (RSs) are a software tool designed to qualify the options available and make suggestions that align with the user's requirements and expectations. This paper reviews some significant applications of RSS in various areas like videos, music, eCommerce sites, news, and many more. It also reviews various filtering techniques like collaborative, content based, and hybrid.

## KEYWORDS

Collaborative Filtering (CF), Content Based (CB), Knowledge Based (KB), Recommender System (RS)

## 1. INTRODUCTION

The volatile growth of digital data and the number of visitors to the Internet have created a potential challenge of data overload which increase the access time of product or information of interest on the Internet. The internet has created greater business opportunities and easily reaches to users. Its 24\*7 online service has provided the number of choices to the users due to which users faced the information overload problem. Recommender System (RS) is used to defeat this problem (Sardar, Ferzund, Suryani, & Shoaib, 2017). So this is observed that RS makes the choice process easier and time-saving for the user. The main aim of the RS is to make available the most suitable recommendation to user from large number of available options by analyzing the user way of interact with the items (Alshaikh, Uchyigit, & Evans, A Research Paper Recommender System Using a Dynamic Normalized Tree of Concepts Model for, 2017) (A & Biradar, 2016). The development of a Recommender System becomes the main requirement in all domains in today's era. The naive users needed RS in the form of guidance and suggestions from the experienced users (Nicholas & Francis, 2019). RS has become an important research area and much work has been done on developing the new approaches (Adomavicius & Tuzhilin, 2005).

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Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Meerut-250111





# Shobhit

Institute of Engineering & Technology

Deemed to-be-University

EDUCATION EMPOWERS

Shobhit Institute of Engineering & Technology

(A NAAC Accredited Deemed to-be University)

NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

To,

Date-15-01-2021

The Principal/Manager  
Sunder Public Schools

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 18-01-21 to ..... (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.

Name- Sweta Pal

Father's name- Surendra Pal

Roll No.- MRT19UGBED040

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut



Student  
Sweta  
Sweta

  
Shobhit Institute of Engineering & Tech.  
(Deemed to-be-University)  
NH-58, Modipuram, Meerut-250110

≡≡≡ SANRA ≡≡≡  
PUBLIC SCHOOL

(AFFILIATED TO STATE BOARD OF EDUCATION)  
DURGA COLONY CHOPLA, GARHMUKTESHWAR, HAPUR

Ref. No. 138

15-06-2021

प्रमाणित किया जाता है कि कु0 स्वेता पाल पुत्री श्री सुरेन्द्र पाल, शौभित  
यूनिवर्सिटी, मेरठ में बी0एड0 की छात्रा है इन्होंने उक्त विद्यालय में  
18.01.2021 से लेकर विद्यालय खुलने तक ऑनलाइन प्रशिक्षण कार्य में  
सहयोग किया है। इनका कार्य अच्छा रहा है। मैं इनके अच्छे भविष्य की  
कामना करता हूँ।

The Principal  
≡≡≡ SANRA ≡≡≡  
PUBLIC SCHOOL  
DURGA COLONY, GARH

  
Rajendra  
Shrihar Institute of Engg. & Tech  
(GATEWAY TO KNOWLEDGE)  
NH-52, GATEWAY TO KNOWLEDGE, HAPUR-250110



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NH-58, Modipuram, Meerut 250 110, INDIA

T. : 0121-2575091, F. : 0121-2575724

E. : mail@shobhituniversity.ac.in

U. : www.shobhituniversity.ac.in

Date- 15/01/2021

To,

The Principal/Manager

JANSEEV KUMAR

JPS CONVENT SCHOOL

Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students.

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks of school internship in B.Ed. II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 15/Jan/2021 to 15/May/2021 (4 Months). We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching experience, participation/organized co-curricular activities records.

So, it is my request that please give the permission for your kind co-operation

Name- Teena

Father's name- Dwiga Prasad

Roll No.- MRT1906BED046

Thanking you

Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

Principal  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Modipuram, Meerut-250110

JPS Convent School  
Meerut



# J.P.S CONVENT SCHOOL

RECOGNIZED BY GOVT. OF DELHI

(ENGLISH MEDIUM)

C-2/209, Gali No. 3, Ind Pusta, Sonia Vihar, Delhi-110090

Date: 10<sup>th</sup> June, 2021

## Internship Completion Letter

We are glad to inform you that Ms. Teena D/o Mr. Durga Prasad R/o H.No. 288 Katra Galkhan Subzi Mandi, Delhi-110007 has successfully completed her internship from 15<sup>th</sup> Jan 2021 to 15<sup>th</sup> May 2021.

We wish her all the best for future.

JPS Convent School  
C-2/209, Gali No. 3, Ind Pusta  
Sonia Vihar, Delhi-110090

  
Registrar  
Shobhit Institute of Enng. & Tech.  
(Deemed to be University)  
NH-53, Medhapur, Meerut-250110



Prof. Dr. Rajiv Dutta <director.sbt@gmail.com>

**Review reminder [ID: 285556]**

Wed, Oct 28, 2020 at 8:40 PM

Ms Appleton <melenieappleton@dovepress.com>  
Reply-To: Ms Appleton <melenieappleton@dovepress.com>  
To: Dr. Dutta <director.sbt@gmail.com>

Dear Dr Dutta

Recently, you kindly agreed to review the manuscript:

Manuscript title: Ecofriendly synthesis, characterization, enhanced functionality and biological evaluation of silver nanoparticles based on Coriander sativum

Article type: Original Research

Author: Dr Ansar

Journal: International Journal of Nanomedicine (Journal Impact Factor: 5.115)

This is a reminder that your review is due on 4 Nov 2020

To access the manuscript and complete your review, please click on the following link:  
<https://www.dovepress.com/reviews.php?id=FGS7vWdEtHuD1CqGc7w1t8JL6565976>

Many thanks for your assistance with this paper and I look forward to receiving your review comments.

Kind regards  
Ms Appleton

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Magnesium  
Coating

# Mitigation of Corrosion Problem on Mg/Cu by Nanostructured Superhydrophobic Coating

A SYNOPSIS

Submitted for the Registration for the Degree

of

**Doctor of Philosophy**

in

**PHYSICS**

By

**Udit Gupta**

(Regn. No: SU/RO/Ph.D./Physics/2021/01)

*Under the Supervision of*

*Approved*

**Dr. Kailash Pandey**

**Co-Supervisor**

Department of Physics

University of Petroleum & Energy Studies

(UPES), Dehradun

**Prof. (Dr.) R.K. Jain**

**Supervisor**

Department of Physics

Shobhit Institute of Engineering

& Technology (Deemed to-be University)



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(Department of Physics)

**Shobhit Institute of Engineering & Technology, Meerut**

(A NAAC Accredited-Deemed-to-be University)

*Udit Gupta*

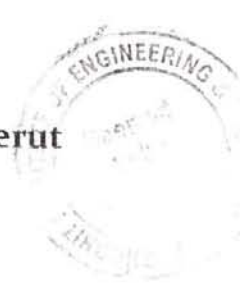
Udit Gupta

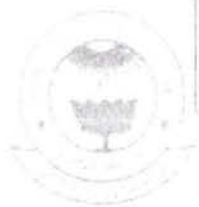
*Kailash Pandey*

Dr. Kailash Pandey

*RK Jain*

Dr. Rakesh Kumar Jain





# PUNJAB PUBLIC SCHOOL


Mansuqa, Mukerian, Distt. Hoshiarpur (Pb)  
C/o: Mansuqa, Mansuqa, Mukerian, Distt. Hoshiarpur (Pb)  
E-Mail: ppsmansuqa@punjab.gov.in

Ref No: 0116/PPS/2021/Int-Cer-I

Date: 26-05-2021

To whom it may concerns this is certify that  
Ms. Uma Sharma faculty of Shobhit (Deemed to be)  
University Meerut is associated with our school  
for training & Internship of B.Ed. students. The  
students of Shobhit University is associated with  
our school for teaching & Training purpose for  
the association of University we are highly  
obligued for their co-operation and support

Principal

  
Registrar  
Shobhit Institute of Engg. & Tech  
(Deemed to be University)  
NH-33, Mansuqa, Mukerian, Distt. Hoshiarpur-250110





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E: mail@shobhituniversity.ac.in

U: www.shobhituniversity.ac.in

To,

The Principal/Manager

Date: 20/01/2021

**Subject- Regarding the Permission of Four Months Internship of B.Ed. II Year Students**

Sir/Madam

As per the norms of NCTE, Every pupil teacher will engage with 16 weeks (i.e. 4 months) internship in B.Ed II Year programme. The School of Education, Shobhit Institute of Engineering & Technology, Meerut (Deemed-to-be-University) is organizing this programme from 16 Months. We can't organize this programme without your school co-operation.

So, please give the permission for internship. During internship, all pupil teachers will perform all duties like a teacher. They will teach lessons and maintained their daily teaching records and participation/organized co-curricular activities records.


So, it is my request that please give the permission for your kind co-operation.

Name: *Vibha Bharti*

Father's name- *Shri Ambika Paswan*

Roll No.- *MRT19UGBED013*

Thanking you

  
Dr. Suraksha Bansal  
Head, School of Education  
Shobhit University, Meerut

  
Registrar  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-58, Medpuram, Meerut-250110



निबंधन सं० एवं वर्ष - 81/2014-17, विद्यालय कोड - 10110300909



# K.K. NATIONAL PUBLIC SCHOOL

CHOUSA (MADHEPURA)

**अनुभव प्रमाण - पत्र**

ब्रह्मा ददाति विनयम्

गणित किया जाता है कि सुश्री ..... द्वारा जारी किया गया ..... पंजीयन संख्या : 2019146613

मा/पति ..... श्रीमान/श्रीमती ..... द्वारा जारी किया गया ..... पंजीयन संख्या : 2019146613

नामक . MNT /श. URB ED. CL3 ..... सत्र 2019 - 2021 ..... ग्राम ..... श्रीमान/श्रीमती .....

पता ..... श्रीमान/श्रीमती ..... स्थाना ..... श्रीमान/श्रीमती ..... अंचल ..... श्रीमान/श्रीमती .....

राज्य ..... राज्य ..... जिला ..... पिनकोड ..... 852215 .....

विद्यालय में दिनांक ..... 22.01.2021 ..... से दिनांक ..... 18.10.2021 ..... तक शिक्षण कार्य हेतु अंशकालीन

भक्त के रूप में कार्यरत रहे। इनकी शिक्षण गतिविधि अत्यंत सराहनीय एवं विश्वसनीय रही है।

**हम इनके उज्ज्वल भविष्य की कामना करते हैं।**

Registrar  
Shobhit Prakash  
Deputy Headmaster  
NH-58, Madhepura

Headmaster  
Shobhit Prakash  
Deputy Headmaster  
NH-58, Madhepura

हस्ताक्षर एवं मुहर

प्रेषक :

प्रबन्धक

सेंट जोजफ इन्टर कालिज

मेरठ कैंन्ट।



सेवा में,

शोभीत विश्वविद्यालय

मेरठ।

पत्रांक :

दिनांक : 15.06.2021

### प्रमाण पत्र

प्रमाणित किया जाता है कि विनय अल्फौन्स मैसी पुत्र श्री अनिल कुमार मैसी जो कि शोभीत विश्वविद्यालय का बी0एड0 द्वितीय वर्ष का छात्र है। जिसने हमारे विद्यालय में 20.01.2021 से 20.05.2021 तक कक्षा 6 से 8 तक के छात्रों को गणित का निःशुल्क अध्यापन कराया है तथा स्कूल में रहकर विभिन्न गतिविधियों में भाग लिया। इनका कार्य अति उत्तम रहा है। आपके उज्ज्वल भविष्य की कामना करते हैं।

भवदीय

रजिस्ट्रार

Registrar  
Shobhit Institute of  
Engineering & Tech.

1  
Engg. & Tech.

Meerut-250112



# Modeling And Analysis Of A Closed Loop Supply Chain With Uncertain Lead Time In The Perspective Of Inventory Management

Vipin Kumar Tyagi, Ruchi Goel, Manindar Singh, Sunil Kumar

**Abstract :** In the presented model an integrated inventory model with deterioration considering the two players is developed; the supplier and the retailer. Here the supplier consists the three shops for production, remanufacturing and for the collection of the returned items. Production rate is considered as demand dependent also the demand is considered as price dependent. Shortages are permitted and assumed to be partially backlogged. Lead time is also considered which is assumed to be uncertain. The model is investigated under the inflationary conditions.

**Keywords :** Deterioration, Remanufacturing, Supply Chain, Inflation, Uncertain Lead Time, Shortages

## I. INTRODUCTION

The awareness regarding the environmental problems is increasing gradually among the society. Governments as well as consumers are now paying attention to the utilization of natural resources. Therefore, the companies are also taking a step toward the reverse logistics. In last few decades the researchers as well as practitioners have given a lot of consideration to the perception of remanufacturing or reparability, remanufacturing process or the reparability in supply chain modeling was firstly introduced by Schrady(1967). Dobos and Richter, (2004), presented the model and stated that a pure strategy gives more suitable solution rather than the mixed strategy. A reverse logistics model with the collection investment was introduced by Savaskan, et al. (2004). Teunter (2004), have developed a Lot-sizing model with product recovery. King et al. (2006), characterized the reparability as the improvement of the faults in any product and expressed that the worth of this product is inferior compared to the new ones and these repaired ones can be sold in any secondary market in the same condition. Chung et al. (2008), developed a reverse channel for the multi echelon supply chain system. Thereafter Singh et al. (2013), have developed a production/remanufacturing model with shortages using flexible rates. Currently Saxena et al. (2017) have presented a green supply chain model with vendor/buyer integration and Saxena et al. (2019) have investigated a studied the remanufacturing/production cycles with an alternative market. Banerjee (1986) has investigated a economic lot size model with the vender, buyer integration. In a subsequent study, Goyal and Nebebe (2000) have proposed a single vendor single buyer generalized model for integrated production policy. Hadidi, et al. (2011) have developed an integrated inventory model for production scheduling. After that Kumar et al. (2015) have presented their models along the same line of research using preservation technology and learning in supply chain. Recently Kumar, (2019) has proposed an production model for the

perishable items with seasonal effect and volume flexibility under the finite horizon. Yadav et al. (2019) have provided a deteriorating inventory model item under the effect of inflation. In the proposed article a closed loop supply chain inventory model for repairable items has been developed. It is assumed that the pre-owned items are gathered from the market and a specific proportion of these items is fixed and remanufactured. These items are conveyed to the retailer, for which an uncertain lead time is considered. The total average expense for the incorporated framework has been determined. The theoretical results have been verified with the help of a numerical illustration.

## II. ASSUMPTION

1. The model is developed here for the integrated production of newly produced material and the remanufacturing of the buyback products.
2. The market demand is assumed to be price dependent.
3. The production is assumed to be the demand dependent.
4. The lead time is considered for the retailer.
5. Deterioration is taken into consideration.
6. Model is developed under the inflationary environment.
7. The shortages are permitted on the end of the retailer part which is assumed to be partially backlogged.

Notations:

$\alpha, \beta$	demand parameters
$b$	collection parameter, $b < 1$
$\theta$	deterioration rate
$a$	production parameter, $a \geq 1$
$p_1, p_2$	selling price per unit for the producer and the retailer
$y$	the lead time
$n$	number of replenishment cycles for the retailer
$c_R$	acquisition cost per unit
$c_m$	procurement cost per unit
$s_r$	remanufacturing cost per unit
$s_m$	production cost per unit
$h_r$	holding cost per unit for remanufactured items
$h_m$	holding cost per unit for produced items
$h_R$	holding cost per unit for collective items

- Sunil Kumar (Corresponding Author) Department of Mathematics, Swami Vivekanand Subharti University, Meerut. Email: gkv.sunil@gmail.com.
- Vipin Kumar Tyagi Department of Mathematics, SBAS Shobhit University, Meerut.
- Ruchi Goel Department of Mathematics, DN College, Meerut.
- Manindar Singh, Research Scholar, Department of Mathematics, SBAS Shobhit University, Meerut.

Date: 10-01-2020

To,  
The Head  
University Training and Development Cell  
Shobhit Institute of Engineering and Technology  
Meerut

This is to certify that we visited School of Law and Constitutional Studies, Shobhit Institute of Engineering and Technology (Deemed to be University, Meerut) on 08-01-2020 to interview the final year students of Integrated Three Years LLB Programs for the post of Junior Associate at our Chamber at District and Session Court, Meerut.

The students were interviewed in detail and following students were selected for the Post of Junior Associate.

Sl. No.	Name of the Students	Course/Program
1.	TARMESH KUMAR	BBA,LLB
2.	SURAJVIR SINGH	BBA,LLB
3.	SURAJ KUMAR	BBA,LLB
4.	SUMIT KUMAR	BBA,LLB
5.	SUJEET KUMAR MISHRA	BBA,LLB
6.	SUDHANT GAUTAM	BBA,LLB
7.	SOVINDAR KUMAR	BBA,LLB
8.	SOHAN PAL	BBA,LLB
9.	SHUBHAM SHARMA	BBA,LLB
10.	SHRI KANT	BBA,LLB
11.	SHOBHIT	BBA,LLB

We request you to please communicate to the selected students to join my office at Opposite Election Office, Civil Compound, District and Session Court, Meerut on or before 28-07-2020 along with a set of photocopies of all academic credentials. Minimum remuneration shall be provided as per the norms of the office. We wish all the best to the selected candidates for their future endeavor.


Thanking You

Abhay Nidhi Sharma  
Advocate

Opposite Election Office  
Civil Court Compound, District and Session Court, Meerut

ABHAY NIDHI SHARMA  
Advocate

Reg. No.-14618/2019

  
Shobhit Institute of Engineering & Tech  
(Deemed to be University)  
NH-33, Meerut (U.P.)  
Meerut-250110



**Tally**

POWER OF SIMPLICITY



# Certificate of Association

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Meerut-250110, Uttar Pradesh

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Bhuwaneshwari B  
Chief Executive Officer

Valid Till 22-10-2022

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Shobhit Institute of Engineering & Technology  
Meerut-250110, Uttar Pradesh

Meerut-250110

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Bhawaneshwar B  
Chief Executive Officer

Valid till: 22-10-2022

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Bhawaneshwar B  
(Director)  
Tally Institute of Accounting & Tech  
(Modipuram, Meerut-250110)



**Tally**

POWER OF SIMPLICITY



# Certificate of Association

This is to certify that

Shobhit Institute of Engineering & Technology

NH-58, Modipuram,  
Meerut-250110, Uttar Pradesh

offers its students the following certification

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Certification Offices of Tally Education

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Offices Certified to offer

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Bhuvaneshwari B  
Chief Executive Officer

Valid Till 22-10-2022

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Tally Education Pvt. Ltd.  
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