



SAMACHARAM

(February-March 2025)

Expert Talk

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Techno-Entrepreneurship Program

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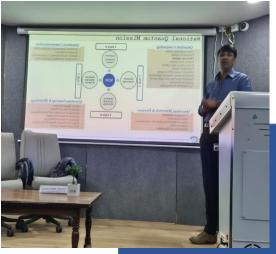
Certificate

04

Patent 01

EXPERT TALK ON SEMICONDUCTOR OPTOEELECTRONIC DEVICES FOR OPTICAL COMMUNICATION & INTERCONNECTS

We are pleased to inform you that Anand School of Engineering & Technology, Sharda University Agra has successfully organized an expert talk on "Semiconductor Optoelectronic Devices for Optical Communication and Interconnects" delivered by Prof. (Dr.) Mukesh Kumar from IIT Indore. The session provided insightful discussions on semiconductor technology, optical communication, and their growing relevance in today's rapidly evolving technological landscape. It was an enriching experience, aimed at raising awareness and enhancing understanding of these critical areas. We would like to express our heartfelt gratitude to our Honorable Vice Chancellor, Prof. (Dr.) Jayanthi Ranjan for her continued support and motivation, which have been instrumental in making this event a success. A special thanks to Prof. (Dr.) R. Swaminathan, Dean ASET for his dedication to advancing such initiatives. We extend our sincere appreciation to Mr. Priyadarshi for his efforts in organizing this impactful event.













ONE-DAY INDUSTRIAL VISIT TO ICAR-DRMR IN BHARATPUR, RAJASTHAN

Anand School of Engineering & Technology, Sharda University, Agra, successfully organized a highly insightful one-day industrial visit to ICAR-DRMR in Bharatpur, Rajasthan.

We extend our profound gratitude to the esteemed Vice-Chancellor, Prof. (Dr.) Jayanthi Ranjan, whose approval made this visit possible. Our sincere thanks also go to Dean Prof. (Dr.) R. Swaminathan, whose unwavering support and guidance were instrumental in the successful execution of this event.

We are equally thankful to Mr. Prakash Kumar (Assistant Professor), Dr. Divyani Panwar (Assistant Professor), and Mr. Pramod Gware (Head of the Department of Biotechnology) for their constant assistance throughout the visit. A special note of appreciation goes to all the attendees who dedicated their valuable time to be part of this enlightening experience.

The visit was meticulously organized by Mr. Nijendra Pratap Singh, Assistant Professor (Department of Biotechnology).













FACULTY DEVELOPMENT PROGRAM ON AI & ML

Anand School of Engineering & Technology successfully organized **Faculty Development Program on AI and ML** in collaboration with IIT Guwahati and the E&ICT Academy from 17th to 22nd February 2025.

Mr. Ashwini shared his extensive knowledge of AI, ML, deep learning, and more. Faculty members also engaged in hands-on practical sessions on AI and ML using Python.

We would like to express our sincere gratitude to our Honorable Vice-Chancellor, Prof. (Dr.) Jayanthi Ranjan, for providing us with this invaluable opportunity to learn about cutting-edge technology. We also extend our heartfelt thanks to our Respected Dean, Prof. (Dr.) R. Swaminathan, for his continuous support and motivation.

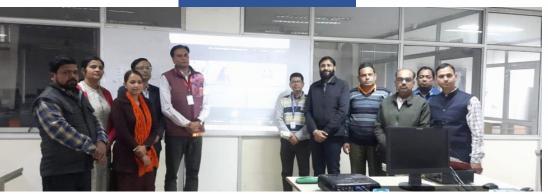
Our sincere appreciation goes to HoD-CSE, Mr. Achal Kumar, for his guidance, as well as to all the faculty members who supported us throughout this journey. The entire event was coordinated by Dr. Shikha Singh, Assistant Professor (MCA & BCA), and Ms. Archana Singh, Assistant Professor (Department of CSE).









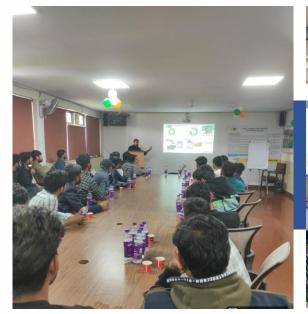


VISIT TO JK TYRE & INDUSTRIES LTD, MORENA

Students of Anand School of Engineering and Technology, Sharda University, Agra, recently had an enriching visit to JK Tyre & Industries Ltd., Morena. This visit was organized for B.Tech and Diploma students of Civil Engineering (CE), Mechanical Engineering (ME), and Electrical Engineering (EE). The event was coordinated by the Standard Club of the Bureau of Indian Standards and supervised by Mr. Mohd Arif, Mr. Ravi Kumar, and Mr. Vikash Kumar Singh.

This industrial visit provided students with first-hand exposure to real-time manufacturing processes, from raw material processing to the final product. Observing advanced production techniques and quality control measures has significantly enhanced their practical knowledge and industry readiness.

We extend our heartfelt gratitude to our Honorable Vice-Chancellor, Prof. (Dr.) Jayanthi Ranjan, and Prof. (Dr.) R. Swaminathan, Dean of Anand School of Engineering & Technology, for their continuous support in facilitating such valuable experiential learning opportunities.











TECHNO-ENTREPRENEURSHIP PROGRAM

Students of Anand School of Engineering & Technology, Sharda University, Agra, recently participated in a highly enriching 10-day Techno-Entrepreneurship Program organized by IHFC at IIT Delhi, Sonipat Campus.

Throughout this program, students gained valuable insights into the world of drones and IoT. The sessions covered essential topics such as drone types, advantages, and handson drone flying through simulation. Additionally, participants worked extensively on development boards like Arduino and ESP32, integrated with various sensors, enhancing their practical understanding of modern technologies.

The program also provided exposure to crucial entrepreneurship skills, along with knowledge of fundamental terminologies, rules, regulations, and benefits related to drones and IoT.

A heartfelt gratitude to our Honorable Vice-Chancellor, Prof. (Dr.) Jayanthi Ranjan; Prof. (Dr.) R. Swaminathan, Dean, Anand School of Engineering & Technology, Sharda University, Agra; and Assistant Prof. Dhinakaran M., Coordinator for the Center of Excellence – Drone Technology, Sharda University, Agra, for their unwavering support in facilitating such transformative learning experiences.



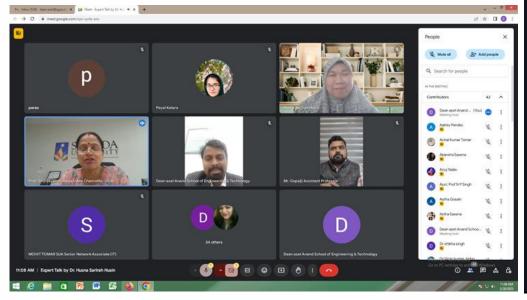




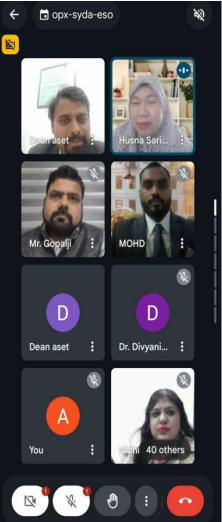
NATIONAL SCIENCE DAY

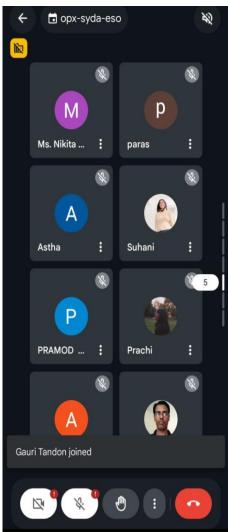
Anand School of Engineering & Technology, Sharda University, Agra, proudly celebrated National Science Day on February 28, 2025, by hosting an international expert talk featuring Dr. Husna Sarirah Husin from Taylor's University, Malaysia, who shared valuable insights on "Harumanis Mango Maturity Classification Using Image Processing."

We extend our heartfelt gratitude to our esteemed Vice Chancellor, Prof. (Dr.) Jayanthi Ranjan, for this incredible opportunity, and to our respected Dean, Prof. (Dr.) R. Swaminathan, for his unwavering support. Our sincere appreciation also goes to the faculty, staff, and students whose participation made this session a remarkable success.







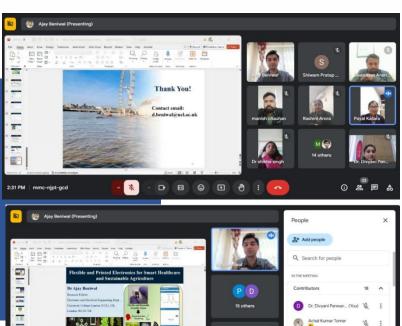


INTERNATIONAL EXPERT TALK

Anand School of Engineering and Technology successfully hosted an insightful international expert talk on "Flexible and Printed Electronics for Smart Healthcare and Sustainable Agriculture," presented by Dr. Ajay Beniwal from University College London, UK. Dr. Beniwal shared his indepth expertise, offering valuable perspectives on these transformative fields.

We extend our sincere gratitude to our Honorable Vice Chancellor, Prof. (Dr.) Jayanthi Ranjan, for this incredible opportunity, and to our Respected Dean, Prof. (Dr.) R. Swaminathan, for his unwavering support. A heartfelt thanks also goes to the faculty, staff, and students whose participation contributed to the event's success.

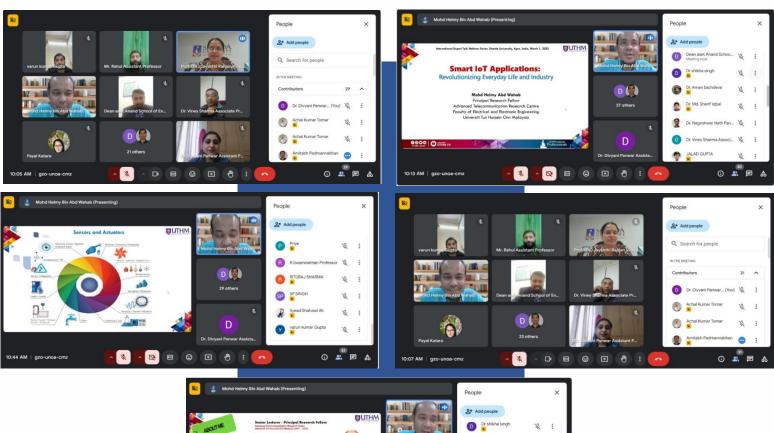




INTERNATIONAL EXPERT TALK

Anand School of Engineering and Technology successfully hosted international expert talk on "Smart IoT Applications: Revolutionizing Everyday Life and Industry" by Dr. Mohd. Helmy Abd Wahab from Universiti Tun Hussein Onn Malaysia. During the session, Dr. Helmy shared his expertise on how Smart IoT transforming **Applications** are both everyday life and various industries.

We would like to express our sincere gratitude to our Honorable Vice Chancellor, Prof. (Dr.) Jayanthi Ranjan, for providing us with this wonderful opportunity to explore this revolutionary technology. Our heartfelt thanks also go to our Respected Dean, Prof. (Dr.) R. Swaminathan, for his continued support. Additionally, we deeply appreciate the participation of all faculty members, staff, and students in making this session a success.

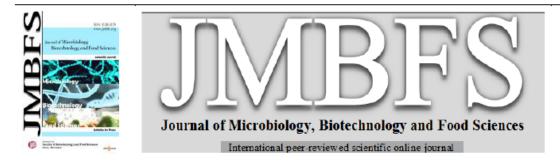




JOURNAL PUBLICATIONS



MR. NIJENDRA PRATAP SINGH ASSISTANT PROFESSOR DEPARTMENT OF BIOTECHNOLOGY





Published by Faculty of Biotechnology and Food Sciences

RECENT ADVANCES IN AZITHROMYCIN REMOVAL THROUGH THE BIOCHAR

Nijendra Pratap Singh^{1,2}, Shivam Singh¹, and Amit Kumar*1

Address(es):

Department of Biotechnology, Sharda School of Engineering and Technology, Sharda University, Greater Noida (UP), India.

²Department of Biotechnology, Anand Engineering College, Agra (UP), India.

*Corresponding author: baliyaniitr@gmail.com

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Review



ABSTRACT

Azithromycin contamination is one of the environmental concerns worldwide and it has been included in the EU's watch list for emerging contaminants in the aquatic environment. It is imperative to decrease azithromycin's environmental footprint from the environment in sustainable ways. Azithromycin remediation can be carried out either by adsorption through biochar or microbial degradation. Biocharbased adsorbents are produced using various feedstocks, including waste products. The use of biochar for contaminants removal is an economic and environmentally sustainable approach. Biochar adsorption mechanism involves surface complexation, weak van der Waals' forces, π - π bonding, electrostatic interactions, and H-bonding. Physico-chemical properties of biochar affect the adsorption and removal of azithromycin. Several chemical, thermal, electrochemical, and microwave-aided regeneration methods being used for recycling biochar those are essential for the cost-effectiveness of the process. This also fits with worldwide tendencies toward sustainable development and a circular economy. The latest research on the elimination of azithromycin by using biochars has been discussed in this review.

Keywords: Azithromycin, Adsorption, Engineered biochar, Emerging contaminant, Remediation

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES



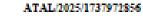


MS. DIVYANI PANWAR
ASSISTANT PROFESSOR
BIOTECHNOLOGY DEPARTMENT

EMERGING TECHNOLOGIES POSTHARVEST MANAGEMENT AND VALUE ADDITION IN HORTICULTURAL COMMODITIES









ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Dr. DIVTANI PANWAR, Family members of the AICTE approved institutions of Sharda University Agra has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Emerging Isohnologies in Posthawest Management and Value Addition in Hortindtural Commodities at National Institute of Food Technology Enterpresent hip and Management from 03/02/2025 to 08/02/2025.



Professor (Other Institute), Coordinator National Institute of Food Technology Entrepreneurship and Management



Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE



MS. DIVYANI PANWAR
ASSISTANT PROFESSOR
BIOTECHNOLOGY DEPARTMENT

SATELITE IMAGE DETECTION USING EFFICIENT DET & EASTER R-CNN





MR. SHIVAM PRATAP SINGH ASSISTANT PROFESSOR COMPUTER SCIENCE & ENGG.

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING CERTIFICATE













Ref. no: EICT/P-II/NKN/24-25/004/282

Electronics & ICT Academy Indian Institute of Technology Guwahati

Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India

Certificate of Participation

This is to certify that

Mr. Jalad Gupta

SHARDA UNIVERSITY AGRA

has participated in one-week Faculty Development Programme on "Artificial Intelligence & Machine Learning" organized by E&ICT Academy IIT Guwahati held from 17th to 21st February, 2025 in association with Inderprastha Engineering College (Hub), Sharda University Agra(spoke) and Echelon Institute of Technology (spoke) and support from UniConverge Technologies Pvt. Ltd.



Prof. Gaurav Trivedi PI, E&ICT Academy Indian Institute of Technology Guwahati



Mr. Kaushlendra Singh Sisodia Director

Director
UniConverge Technologies Pvt. Ltd. Inderprastha Engineering College
Noida

Prof.(Dr.) Ajay Kumar Prof. (Dr.) Jay

Prof. (Dr.) Jayanthi Ranjan Vice Chancellor Sharda University Agra Agra

Dr. Sudarshan Goswami Director,

Director, Echelon Institute of Technology, Faridabad



MR. JALAD GUPTA
ASSISTANT PROFESSOR/EE

RECENT ADVANCEMENTS AND CHALLENGES IN INTEGRATION OF 10T & 5G/6G WIRELESS COMMUNICATION: BUILDING THE NEXT GEN CONNECTIVITY









ATAL/2025/1737970342

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AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mr. Dhinakaran M, Assistant Professor of Sharda University Agra has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent Advancements and Challenges in Integration of IoT and 5G/6G Wireless Communication: Building the Next Gen Connectivity at KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY from 03/02/2025 to 08/02/2025.



Yuvaraja T Associate Professor Level (AICTE Institute), Coordinator KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY



Dr. Sunil Luthra Director & Bureau Head Training and Learning Bureau, AICTE



MR. DHINAKARAN M
ASSISTANT PROFESSOR/ECE

PATENT OF SOLAR-POWERED ELECTRIC VEHICLE CHARGING STATION WITH INTEGRATED BATTERY STORAGE



MR. JALAD GUPTA
ASSISTANT PROFESSOR/EE



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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APPLICANT NAME	1 . Mr. Jalad Gupta 2 . Dr. K. A. Emmanuel 3 . Dr. Samanthaka Mani Kuchibhatla 4 . Dr. Nellore Manoj Kumar 5 . Dr. T. Vivek 6 . Dr. Vijay Kumar Dixit 7 . Dr. P. Jamuna Rani
TITLE OF INVENTION	SOLAR-POWERED ELECTRIC VEHICLE CHARGING STATION WITH INTEGRATED BATTERY STORAGE
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	nmkumar797@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
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SAMACHARAM TEAM



Editor-in-chief **Prof (Dr.) R. Swaminathan**



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