

IIMT
COLLEGE OF ENGINEERING
Greater Noida



— Aim For Excellence —

Electroma

Department of Electronics &
Communication Engineering



Newsletter Highlights

Chief Editor's Desk

A Workshop

A Minor Activity

A Minor Activity


A Workshop

Faculty Achievement

Faculty Publication 0.2

Faculty Publication 0.1

 www.iimtindia.net

 Plot no. 19 & 20, Knowledge Park III,
Greater Noida (U.P.)

 contact_gn@iimtindia.net

April–June 2023

VOLUME XVIII, ISSUE 2
NEWSLETTER

From Chief Editor's Desk



Prof. (Dr.) Seema Nayak
HOD ECE

Dear Readers,

Welcome to the Department of Electronics and Communication Engineering, IIMT College of Engineering Greater Noida. We, the Department of Electronics and Communication Engineering, feel our enthusiasm to publish the issue of our departmental newsletter. I, as a head of the department would like to thank all the faculty members, non-teaching staff and students for their limitless support and sincere efforts for the betterment and development of department. On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

Prof.(Dr.) Seema Nayak | Professor | Chief Editor & HOD Dept. of ECE

10 GigE Vision-A New Era Image Processing

10 GigE Vision helps by bringing the processing and storage of data closer to the equipment. The Ethernet based interface 10GigE Vision has the potential to lead the image processing industry to a new era. This enables IoT sensors to monitor machine health with low latencies and perform analytics inreal-time. Edge computing is a distributed computing paradigm that brings computation and data storage closer to the source of data. This new technology offers a number of innovative features for use in a wide variety of areas.



Engineering
is the closest thing
to magic that
exists in the world

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A Workshop On Embedded System Application with Arduino Board

The Department of ECE organized a workshop on “EMBEDDED SYSTEM APPLICATION WITH ARDUINO BOARD”, on 11th April 2023 at 11:00 am onwards. This activity was coordinated by Ms Zaiba Ishrat and Mr. Basanta Mahato.

The Guest Speaker Md Zafar Ali gave his valuable insight from his vast expertise. He gave important fundamentals regarding Arduino Boards and its use in programming and interfacing with peripheral devices.

The workshop provided the students with an insight into the internal working of the system with the latest updates and its industrial application.



Namauli, Uttar Pradesh, India
FFJR+959 IIMT COLLEGE OF MANAGEMENT, Knowledge
Park III, Namauli, Uttar Pradesh 201310, India
Lat 28.480786°
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A workshop on “Embedded
System Application with
Arduino Board”

A minor activity on “Drone &
its application” under the ISTE & IEI

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A Minor Activity On Drone & its Application under the ISTE & IEI

The Department of ECE organized a minor activity on “Drone & its Application” under the ISTE & IEI” on 21st April 2023 from 1:40 pm onwards. This activity of department aims to provide a platform to the students to gain the knowledge of future technology, practical skills and realize projects. The activity further gave exposure to the students with regard to diverse field of application of drone in the different areas.



A minor activity on “Drone & its application”
under the ISTE & IEI

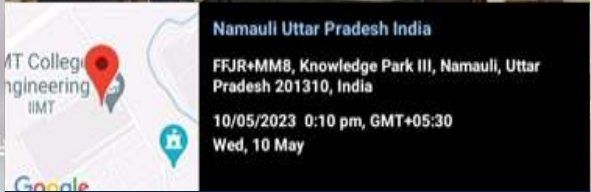
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A Minor Activity On Impact of VLSI on Innovation Under IIC

The Department of ECE organized a minor activity on “Impact of VLSI On Innovation” under the IIC on 10th May 2023 from 10:00 am onwards. The activity aimed to provide a platform to the students to gain the knowledge of emerging applications in the domain of VLSI Communication And Signal Processing.

The session was highly interactive as the speaker Mr. Puneet Mittal was very enthusiastic and made the students to recollect the needed basics of Digital Logic Circuits. Students related the circuits to VLSI design techniques The students learnt about VLSI company policies in terms of production, quality, service management and acquainted themselves with the working of instruments during the activity.



Minor activity on “Impact of VLSI on Innovation” under the IIC

INSTITUTION'S INNOVATION COUNCIL
IIMT
COLLEGE OF ENGINEERING
Greater Noida
— Aim For Excellence —

Institution's Innovation Council (IIC - IIMT) & Department of Electronics & Communication Engineering

jointly organising
Guest Lecture on

IMPACT OF VLSI IN INNOVATION

Speaker
Mr. Puneet Mittal
Founder & CEO
VLSI Expert Pvt Ltd, Noida

Date: Wednesday, May 10, 2023 | Time: 10:00 AM Onwards
Venue: Room No 324 (Block B)

FACULTY COORDINATOR: **Mr. Zaiba Ishtat**
Assistant Professor, ECE
IIMT College of Engineering.

STUDENT COORDINATOR: **ANISHA ANAND**
ECE (3RD YEAR)

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A Workshop On Prototype/Process Design and Development

The Department of ECE organized a workshop on “Prototype/Process Design and Development” on 7th June 2023 at 10:00 AM onwards under IIC. The Guest Speaker was Mr. S. K. Mahajan former Senior Scientist CSIR-CEERI Pilani.

The speaker discussed the demand of market or industry and how the students can find out the right opportunities in the market as an entrepreneur. The main objective of the event was to provide the students with exposure to entrepreneurship and career development by starting to think about a tiny problem.



A workshop on “Prototype/Process Design and Development

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Students Achievement

It has been a great honor for ECE department, that 3 teams have been selected under the "CST-UP Engineering Students Project Grant Scheme" to develop new projects. Department of Science & Technology, Govt. of U.P. aims to promote and nurture Science & Technology throughout the state, that creates scientific temper & harnesses it for betterment of society.



Project presentation at Lucknow under CST-UP2022-23

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Faculty Achievement

Dr. Seema Nayak (HOD ECE), Mr. Pankaj Jha & Mrs. Arpana Mishra provided their valuable guidance to students for project presentation under financial grant of CSTUP 2022-23.



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Faculty Publications In Reputed Journals, Conference Proceedings and Book Chapters During Session 2022-23 (April To June 2023)

Sl. NO	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal/Conference	Year of publication
1	A design and investigation inexact compressor based on low power multiplier	Dr. SEEMA NAYAK MS SHEETAL NAGAR	ECE	Journal of circuits, System and Computers (SCI)	2022-23
2	A Metamaterial Inspired SRR Accomplished Multiband Antenna For 5G And Other Wireless Applications".	Mr. PANKAJ JHA	ECE	REVUE ROUMAINE DES SCIENCES TECHNIQUES (SCI)	2022-23
3	Special Vehicle Like Ambulance Recognition and Security System Using Mobility Accredited System	Dr. SEEMA NAYAK	ECE	Technology innovations and AI technology in healthcare (SCOPUS)	2022-23
4	Design, simulation and comparative analysis of carbon nanotube based energy efficient priority encoders for nanoelectronic applications	Dr. SEEMA NAYAK	ECE	E-Prime-Advances in electrical engineering, electronics and energy (SCOPUS)	2022-23
5	Bifurcation of sodium and potassium conductance for detection of some neurological disorder.	Dr. SEEMA NAYAK, Dr. Taslima	ECE	IEEE International Conference on Disruptive Technologies (ICDT-2023) (SCOPUS)	2022-23
6	A Comprehensive Review of MPPT Techniques Based On ML Applicable For Maximum Power in Solar Power Systems	Dr. SEEMA NAYAK Ms. ZAIBA IRSRAT	ECE	Journal of Renewable Energy and Environment (JREE) (SCOPUS)	2022-23
7	Bifurcation of sodium and potassium conductance for detection of some neurological disorder	Dr. TASLIMA AHMED Dr. SEEMA NAYAK	ECE	IEEE International Conference on Disruptive Technologies (ICDT-2023) (SCOPUS)	2022-23
8	Design, and implementation of detecting non-stationary object using raspberry-PI and smart IP camera	Dr. NAVEEN RATHEE	ECE	Semiconductor Optoelectronics (SCOPUS)	2022-23
9	Smart Health Monitoring System with Wireless Networks to Detect Kidney Diseases	Dr. NAVEEN RATHEE	ECE	Computational Intelligence and Neuroscience, (SCOPUS)	2022-23
10	An Efficient Novel Architecture For Surveillance System Using Internet Of Things	Dr. NAVEEN RATHEE	ECE	Semiconductor optoelectronics (SCOPUS)	2022-23

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to be continued

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11	CSRR Loaded compact textile antenna with defected ground for wearable 5G and wi-fi 6E application	Mr. PANKAJ JHA	ECE	2nd International conference on the paradigm shifts in communication embedded system, machine learning and signal processing (PCEMS 2023) (SCOPUS)	2022-23
12	Comparative Analysis of Dual-edge Triggered and Sense Amplifier Based Flip-flops in 32 nm CMOS Regime	Ms. ZAIBA ISHRAT, Mr. PRASHANT KUMAR MAVI	ECE	2023 IEEE 2nd International Conference on Advances in Power, Signal and Information Technology APSIT-2023 Conference (SCOPUS)	2022-23
13	Performance Evaluation of Pulse Triggered Flip- Flops in 32 nm CMOS Regime	Ms. ZAIBA ISHRAT	ECE	2nd International Conference on applied artificial interlligence and computing (ICAAIC 2023) organized by Narasu's Sarathy Institute of Technology Sale, India on 4-6, May 2023 (SCOPUS)	2022-23
14	A Comprehensive Review of MPPT Techniques Based On ML Applicable for Maximum Power in Solar Power Systems	Ms. ZAIBA ISHRAT, Dr. SEEMA NAYAK	ECE	Journal of Renewable Energy and Environment (JREE) (SCOPUS)	2022-23
15	Electronics Epidermal Tattoo – An overview	Ms. ARPANA MISHRA	ECE	2023 International Conference on Artificial Intelligence and Smart Communication (AISC) (SCOPUS)	2022-23

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Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the proceedings of the conference	Name of the publisher
1	MS. ZAIBA ISHRAT DR. SEEMA NAYAK	A Review: Dust Claning Approach of Solar Photovoltaic System Using IOT & ML	SPRINGER INDEXED (SCOPUS) Paradigms of Smart and Intelligent Communication, 5G and Beyond	SPRINGER
2	DR. SEEMA NAYAK MR. PANKAJ JHA	Integration of IoT and 5G Communication	SPRINGER INDEXED (SCOPUS) Paradigms of Smart and Intelligent Communication, 5G and Beyond	SPRINGER
3	DR. SEEMA NAYAK	Synthesis and analysis of Digital IIR Filters for Denoising ECG Signal on FPGA	Evolving Networking Technologies: Developments and Future Directions (Wiley Publication)	Wiley

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Department Of Electronics & Communication Engineering



CHIEF EDITOR

Prof.(Dr) Seema Nayak
HOD, ECE



CO-EDITOR

Ms Arpana Mishra
Asth. Professor



STUDENT EDITOR

Priya Daksh (ECE 4A) | Chandan Kumar (ECE 4A) | Om Tripathi (ECE 3A)

Greater Noida Campus

Mob. : +91 9911009144 | +91 9717015300

Plot no. 19 & 20, Knowledge Park III, Greater Noida (U.P.)