



Department of Electronics & Communication Engineering

SKIT, JAIPUR
Electro Nexus
July- December,
2024

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Faculty Information

Head of Department

Dr. Mukesh Arora
 Professor & Head of Department

Professors

Dr. Praveen Kumar Jain
 Professor & Deputy Head of Department
 Dr. Monika Mathur
 Professor & PG Coordinator
 Dr. Vikas Mathur
 Professor of Practice

Associate Professors

Dr. Jayprakash Vijay
 Dr. Kiran Rathi
 Ms. Mamta Jain
 Dr. Rukhsar Zafar
 Dr. Swati Arora
 Dr. Shubhi Jain
 Dr. Vikas Pathak
 Dr. Pallav Rawal
 Dr. Suman Sharma
 Dr. Neeraj Jain
 Dr. Lalit Kumar Lata

Assistant Professors

Mr. Abhinandan Jain
 Ms. Gloria Joseph
 Mr. Harshal Nigam
 Dr. Namrata Saxena
 Mr. Praveen Saraswat
 Ms. Priyanka Sharma
 Mr. Rahul Pandey
 Ms. Rajni Idawal



Professional Developments

Expert Lectures

Mr. Rajesh Kr. Panwar, ITS, IES – 1992, and Retired PGM of BSNL (Rajasthan Telecom Circle)

He was the speaker at Expert Talk and Poster presentation competition organised at 19 October 2024. Ms. Mamta Jain Dr. Rukhsar Zafar Dr. Swati Arora Dr. Shubhi Jain Dr. Vikas Pathak Dr. Pallav Rawal Dr. Suman Sharma Dr. Neeraj Jain Assistant Professors Mr. Abhinandan Jain Ms. Gloria Joseph Mr. Harshal Nigam Dr. Lalit Kumar Lata Dr. Namrata Saxena Mr. Praveen Saraswat Ms. Priyanka Sharma Mr. Rahul Pandey Ms. Rajni Idawal Mr. Sunil Lakhawat .

Ms. Harshita Tolani, Scientist & RF Engineer, Space Applications Centre , Ahmedabad, ISRO He was the speaker at expert talk on "ISRO'S Chandrayaan Missions and Microwave Remote Sensors: An Expedition to Space organised at 28 August, 2024.

Professor Shiban Kishen Koul Honorary Professor at IIT Delhi He was the speaker at expert lecture on Transmission Lines for High speed/ High frequency Integrated Circuits organised at 21 August, 2024.

Publication Detail

Mr. Abhinandan Jain- published paper titled "Evaluation of the a-IGZO thin film transistor's performance in radio frequency and analog measurements"
 Dr. Praveen Kumar Jain- published paper titled "Evaluation of the a-IGZO thin film transistor's performance in radio frequency and analog measurements"
 Dr. Pallav Rawal- published paper titled "Efficiency Enhanced Sneezewort Plant Inspired Antenna for mm-wave Applications"
 Dr. Rukhsar Zafar- published paper titled "Asymmetrical split ring resonators based plasmonic sensor for improved sensing performance"
 Mr. Rahul Pandey- published paper titled "Asymmetrical split ring resonators based plasmonic sensor for improved sensing performance"
 Dr. Pallav Rawal- published paper titled "A Novel Dual-Band Defected round Structure Wearable Microstrip Patch Antenna for Breast Tumour Detection in Biomedical Applications"
 Dr. Praveen Kumar Jain- published paper titled "Resistive-Gate Field-Effect Transistor: A Potential Steep-Slope Device"
 Abhinandan Jain- published paper titled "Resistive-Gate Field-Effect Transistor: A Potential Steep-Slope Device"
 Dr. Neeraj Jain- published paper titled "Resistive-Gate Field-Effect Transistor: A Potential Steep-Slope Device"
 Rahul Pandey- published paper titled "Nanorods-embedded Ring Resonator-based Plasmonic Sensor for Adulteration Detection in Honey Products"
 Dr. Praveen Kumar Jain- published paper titled "Recent Trends in Perovskite Based Solar Cells"
 Dr. Rukhsar Zafar- published paper titled "Nanorods-embedded Ring Resonator-based Plasmonic Sensor for Adulteration Detection in Honey Products"
 Dr. Lalit Kumar Lata- published paper titled "Resistive-Gate Field-Effect Transistor: A Potential Steep-Slope Device"

FDP-WORKSHOP-STTP-Orientation-Induction-Refresher Course-Traning Program

Mr. Abhinandan Jain ,Mr. Harshal Nigam, Dr. JP Vijay, Dr. Kiran Rathi, Ms Mamta Jain, Dr. Monika Mathur, Dr. Pallav Rawal, Ms. Priyanka Sharma, Mr. Rahul Pandey, Ms. Rajni Idawal, Dr. Shubhi Jain, Dr. Suman Sharma, Dr Vikas Pathak, Mr Harshal Nigam attended workshop titled "ATAL FDP on Navigating Recent Trends and Challenges in Semiconductor Devices".

Dr. Rukhsar Zafar, Dr. Swati Arora, Dr. J P Vijay, Dr. Neeraj Jain, Dr. Suman Sharma, Ms. Mamta Jain, Ms. Rajni Idawal, Ms. Priyanka Sharma, Mr. Rahul Pandey, Mr Harshal Nigam-attended workshop titled "FDP on PHP and My SQL, Spoken Tutorial"
 Ms Gloria Joseph attended workshop titled "FDP on Fourier series and fourier transform"
 Dr. Neeraj Jain- attended workshop titled "NITTTR FDP on IoT and Embedded Systems"
 Dr. Shubhi Jain- attended workshop titled "Faculty Development Program on Recent Trends in Wireless Communications and Networks"
 Mr. Harshal Nigam- attended workshop titled "FDP, RCNMCT-2024". and attended workshop titled "FDP, FMRIE-24".

Vision

To evolve the department as a center of excellence in the field of Electronics & Communication Engineering for enriched education, higher learning, research and development.

Mision

M1: To Impart quality education in Electronics and Communication Engineering for better employability.

M2: To Prepare students for being competent in dealing with industrial challenges.

M3: To Equip students for lifelong learning and for serving the society.

Salient Features

- Department has RTU recognised "Centre of Excellence" in research field of "Antenna, Microwave and RF Engineering".
- Under the aegis of Centre of Excellence in Antenna, Microwave and RF Engineering, ECE Department has signed the MOU's with CSIR- IMMT, Innovate Skill, CEERI Pilani, etc.
- The department has all the equipment required for course work of B. Tech, M. Tech and Ph. D programs. This includes 14 GHz Field Fox microwave analyzer (VNA) (N9916A), 1 GHz spectrum analyzers, signal synthesizer, signal generators, 200 MHz digital storage CROs, optical fiber communication equipment, CDMA-DSS trainer kit, Doppler Radar, Advanced MIC trainer, CMS320C6713 DSP Platform with Code composer Studio, Power sensor, digital communication trainer's kit & experimental board for DSP's, CPLD's, FPGAs and embedded microcontroller trainer kit with interfacing etc.
- It has a mix of analog and digital equipment for hardware design, microprocessor and microcontroller programming, independent computing facilities using HFSS, Xilinx Vivado, LabVIEW, Or CADE/ Pspice, Mentor DSP and MATLAB etc.

Major Events

Lecture Series on "Recent Trends in Electronics and Communication Engineering"

One Week Lecture Series organized by ECE Department in association with CoE- Antenna, Microwave & RF Engineering, IETE Student Chapter & IEEE MTT-S Student Chapter of SKIT from November 18 to 22 November, 2024.



Three Day Student Workshop on PCB Designing and Fabrication CoE- Antenna, microwave and RF Engineering, the three day student workshop on PCB Designing and Fabrication organised by ECE department.



Industrial Visits by ECE Department

The Industrial Visit organized by Centre of Excellence for Antenna, Microwave, and RF Engineering and department of ECE, SKIT on September 21

Faculty Development Programme on Navigating Recent Trends and Challenges in Semiconductor Devices

AICTE Training and Learning (ATAL) Academy Sponsored Faculty Development Programme on Navigating Recent Trends and Challenges in Semiconductor Devices from Dec 16 to Dec 21, 2024.

The objective of the programme were to enhance knowledge of recent trends and advancements in semiconductor devices and technology, develop practical skills in fabrication processes, to explore sustainable solutions and challenges in modern s.c. applications and to foster innovation and critical thinking for future leaders. The speakers .

Faculty Achievements

PHD Completion

Dr. Lalit Lata successfully completed his PhD on the title "Investigation of Resistive switching characteristics of metal oxide memory devices" under the supervision of Dr. Praveen Kumar Jain, associate professor of "Swami Keshvanand Institute of Technology, Management and Gramothan on September 3, 2024.

Dr. Kiran Rathi

She was awarded "SIKSHA RATNA AWARD" for par Excellence and Exemplary Contribution in the field of Education by her dedicated services in Humanitarian Approach on Teachers day-2024 by "BHARTIYA JANTA PARTY, Riddhi Siddhi Mandal, Sanganer, Jaipur.

Pooja Choudhry
Ankit Agarwal
Dr. S.K. Bhatnagar
Anil Verma (STA)
Deepak Dhakad (TA)
Prof. Pooja Choudhary

Their patent for an invention entitled "A DEVICE FOR SOLDERING ELECTRONIC COMPONENTS BY REFLOW SOLDERING TECHNIQUE AND THE PROCESS THEREOF was granted on September 13, 2024.

Grant from AICTE-ATAL of Rs. 3,50,000 to conduct FDP on "Navigating Recent Trends and Challenges in Semiconductor Devices" from December 16 to December 21, 2024.



6 Engineering Programmes ACCREDITED by NBA (National Board of Accreditation)

1 RANK NO. 2023-24
2022-23
2021-22
2020-21
2019-20
2018-19
2017-18
By RTU, KOTA

Best Placements
47 LPA
Highest Package
(Batch 2023)

25
THE SILVER JUBILEE YEAR

