Dr. APJ Abdul Kalam Technical University
Lucknow, Uttar Pradesh

Department of Electronics & Communication Engineering

WELCOMES

CHAIRMAN AND MEMBERS OF EXPERT COMMITTEE
National Assessment & Accreditation Council (NAAC)

Date: 17, 18 & 19 June, 2025

Presented By

Prof. Subodh Wairya
Head of Department
Electronics & Communication Engineering
Institute of Engineering & Technology, Lucknow

Department Overview

- Established in year 1984

ECD Magzine-2024-25

ECD has been NBA Accredited for 6 Years as 2019-2022 (September) and 2022-2025 (September)

Programs Running

- B.Tech in Electronics & Communication Engineering
- M.Tech in Microelectronics

- Total students: 288 (74+79+64+71)
- Sanctioned Intake: 60 (B. Tech.) & 15 (M. Tech.)
- Faculty Strength: 12

Faculties are engaged in theory, Practical, and *Lecture videos*

IN LAST FIVE YEARS
FACULTY ACHIEVEMENTS

- **Total 12 PhD awarded**
- **20- PhD ongoing and 5-PhD Permitted for thesis writing by RDC**
- **More than 300 Research *Publications* by the department faculties with 5332 citations, 129 h-index, and 140 i-10.**
- **55 *FDPs* attended by Faculties and Research Scholars**

RESEARCH PROJECTS

04 Research project have been awarded To Dr. Rajiv Kumar Singh (Assistant Professor)

Department Overview

VISION OF DEPARTMENT	**To produce manpower in the field of Electronics and Communication Engineering, capable to compete with that elsewhere and to make the department a center of excellence in the field of Signal Processing and Microelectronics.**
MISSION OF DEPARTMENT	**M1: To develop the ability among students and understand concepts of core graduate electronics and communication engineering.** **M2: To create center of Excellence to meet global research and development challenges.** **M3: To build student community with professional and ethical standards in thrust areas so as to meet industry requirements.**

Department Overview

List of Faculties in the Electronics and Communication Department, IET Lucknow

Name	Designation
Dr. Subodh Wairya	Professor & HOD
Dr. Neelam Srivastava	Professor
Dr. Ram Chandra Singh Chauhan	Associate Professor
Er. Amit Kumar	Assistant Professor
Dr. Rajiv Kumar Singh	Assistant Professor
Dr. Divya Sharma	Assistant Professor (Contractual)
Er. Anurag Yadav	Assistant Professor (Contractual)
Dr. Abhishek	Guest Faculty
Dr. Narendra Pal	Guest Faculty
Dr. Roopali Agrawal	Guest Faculty
Er. Shahneela Jamal Kidwai	Guest Faculty
Er. Km Kanchan	Guest Faculty

Department Overview

- Department have total 15 Labs
- 7 Lecture Rooms
- Conference Hall
- Seminar Hall
- Departmental Library
- Faculty Meeting Room
- Faculty and Research Scholar Rooms

LIST OF LABORATRY

- Basic Electronics Engineering Lab
- Network Analysis And Synthesis Lab
- Microprocessor & Microcontroller Lab
- Instrumentation And Sensor Lab
- Project Lab
- Industrial Instrumentation Lab
- Computer Aided Design Lab
- Digital System Design Lab
- Communication Engineering Lab
- Analog Electronics Lab
- Microwave Engineering
- Antenna Design Lab
- Digital Signal Processing Lab
- Analog Signal Processing Lab
- VLSI Design Lab

Computing Infrastructure

- A sufficient number of computers with high-speed internet.
- Connected to the Institute **Mbps Network via optical fiber**

Hardware Specifications

- Computer systems with **Intel i5 and i7** processors.

Licensed Software Provided

- MATLAB R2024b
- Cadence Virtuoso Tools 6.1.8 License for 10 users
- Xilinx 14.7

Development Environments

- MS Visual Studio, .NET
- Visual Prolog
- MS Office Developer Suite

Power Backup

- 10KVA/5 KVA (UPS) power support for labs and offices.

Department Overview

IEEE CHAPTER, SOCIETY AND CLUB of ECD

IEEE STUDENT BRANCH STB62961

The IEEE Student Branch is a vibrant hub of technological enthusiasm and professional development with the vision of advancing technology for humanity; the branch actively engages students in meaningful activities beyond the classroom.

IEEE WIE AFFINITY GROUP SBA62961

The WIE Affinity Group aims to create a supportive ecosystem where female students can learn, lead, and grow. It focuses on mentorship, technical skill-building, and inspiring the next generation of women in engineering.

SOCIETY FOR ELECTRONICS EXPLORATION & DEVELOPMENT (SEED)

SEED society was established in 2014 by ECE department for developing a comprehensive approach towards the learning of robotics and advanced circuitry.

ROBOTICS CLUB

The Robotics Club was established in 2017 to inspire and enable students to explore their creativity and engineering skills through robotics; in a fun and competitive atmosphere that teaches them both technical skills, teamwork and leadership.

Department Overview

ALUMNI Nominated as BOS Member of ECD, IET Lucknow

1. Prof. Dinesh Kumar
Electronics Department, Jamia Milia Islamia, New Delhi

2. Er. Janardan Pandey
(Btech, EC 2002)
SOC, Architect, Intel Bangalore

EXPERT LECTURE BY ALUMNI

Topic: Navigating the Future Trends in India's Aerospace and Defence Industry
Speaker: **Er. Ram Parvesh**
Position: **Deputy General Manager (DGM) at BEL**
Alumni: B.Tech. ECE Branch, Year 2002

Er. Parvesh's lecture was a panoramic view of the evolving landscape of India's Aerospace and Defense Industries. He began by highlighting the historical context and then seamlessly transitioned into the current trends and future trajectories. The session covered advancements in technology, strategic considerations, and the role of innovation in shaping the destiny of the crucial sectors. Attendees were captivated by Er. Parvesh's ability to simplify complex concepts while addressing the intricacies of the industries. The interactive Q&A session that followed allowed participants to delve deeper into specific areas of interest, making the lecture a comprehensive exploration of the future of aerospace and defense in India.

Department Overview

EXPERT LECTURE BY ALUMNI

Topic: Personality Development for Placement
EXPERT LECTURE
Speaker: Er. Ankur Saini
Position: Vice President of Sales at FLEEK IT Solutions
Alumni: B.Tech. EIE Branch, Year 2002

Er. Saini's session was more than a lecture; it was a journey through his own experiences and learnings in the corporate world. His engaging discourse delved into the nuances of personality development that go beyond the conventional realms of academia. Drawing from his extensive background in sales, Er. Saini emphasized the significance of holistic personal growth in the context of career placement. His insights into effective communication, professional demeanor, and the art of networking resonated with the audience. The session provided a roadmap for students and young professionals to navigate the competitive landscape of job placements successfully.

Department Overview

EXPERT LECTURE BY ALUMNI

Topic: Personality Development for Placement
Er. Gaurav Dixit
Position: Service Delivery Manager at Lefdal Mine Data Centre, Europe
Alumni: BTech ECE Branch, Year 2012
Topic: AI, ML & Cloud Computing

Er. Dixit commenced his lecture by providing a contextual understanding of artificial intelligence(AI), machine learning (ML), and cloud computing. He seamlessly navigated through the intricacies of these technologies, illustrating real-world applications and their impact on the modern business landscape. His session became a captivating exploration of the fusion of AI, ML, and cloud computing, showcasing the potential to revolutionize industries and redefine how data is managed and utilized. The practical insights Er. Dixit shares were complemented by case studies and examples, offering a glimpse into the dynamic future that these technologies herald.

Department Overview

EXPERT LECTURE BY ALUMNI

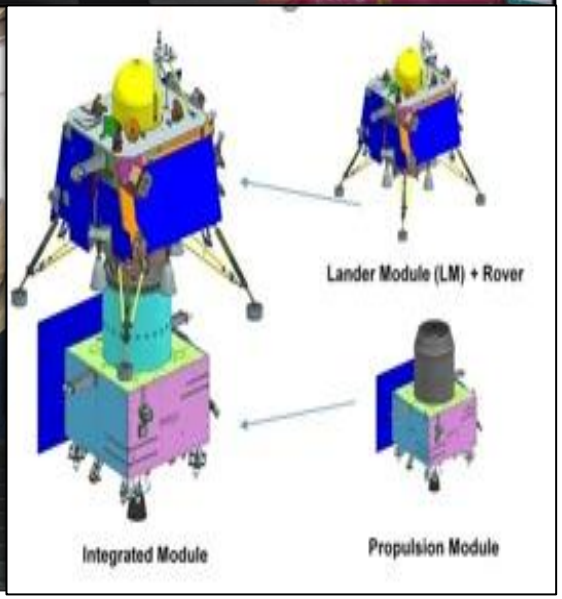
Chandrayan Chronicles: Insights from the ISRO Scientist's Talk

Speaker: Mr. Ritesh Sharma, Deputy Project Director Space Application

Center, ISRO

Alumni: B.Tech. ECE, Year 2003

Speaker: Mr. Ritesh Sharma, Deputy Project Director Space Application Center, ISRO Alumni: B.Tech. ECE, Year 2003, Chandrayan Chronicles The Department had the honor of hosting an expert talk titled “Insights from the ISRO Scientist”, delivered by Mr. Ritesh Sharma, Deputy Project Director at the Space Applications Centre (SAC), ISRO. The session attracted a large audience, including students, faculty members, and space enthusiasts, eager to learn about India’s growing space capabilities and ISRO’s significant contributions. Mr. Sharma began his address by offering an overview of ISRO's mission, vision, and recent milestones. He emphasized ISRO’s focus on using space technology for the benefit of society—aligning with national development goals in areas like communication, agriculture, weather forecasting, and disaster management.



Department Overview

STUDENT RECOGNITION

SMART STARTUP (INNOVATION) 2023

DPIIT-recognized-Registered under Startup India, Awarded by the Hon'ble Governor of Uttar Pradesh as the **Best Women-led Startup, While Network Private Limited**, established in 2023, is an innovative DPIIT-recognized startup that is reshaping the future of social media with a unique focus on knowledge sharing and mental growth.

SMART STARTUP (INNOVATION) 2024

RedLinear Automation Pvt. Ltd. is a robotics startup focused on building scalable, intelligent Autonomous Mobile Robots (AMRs) designed specifically for Indian environments. Our team recently participated in the prestigious Navonmesh AIdea 24-hour Hackathon, where we proudly secured **1st place among 280 teams**. The students of EC Department, IET LUCKNOW Ankit and Anurag of Btech Final year have **honored to receive the prize of INR 51,000 directly from the Honorable Governor of Uttar Pradesh.** This recognition was a testament to their impact in the field of robotics and AI.

Criteria 1- Curricular Aspects

Courses Aligned With National needs/Global needs

Electronics Devices & Circuits, Fundamentals of Electronics Engineering, Electronics Devices & Circuits, Digital Logic Design, Electromagnetic Field Theory & Wave Propagation, Network Analysis and Synthesis, Signal System, Analog Electronics, Microprocessor & Microcontroller, Antenna Theory and Design, Advance Digital Design using Verilog, Microwave and Radar Engineering

Adoption of Choice Based Credit system in departmental Electives.

Departmental Elective I- (IEC-051, IEC-052, IEC-053, IEC-054)- 3 Credit
Departmental Elective II- (IEC-055, IEC-056, IEC-057, IEC-058)- 3 Credits
Departmental Elective III- (IEC-061, IEC-062, IEC-063, IEC-064)- 3 Credits

Departmental Elective I - 3 Credits

- Digital Signal Processing (IEC-051)
- Industrial Electronics (IEC-052)
- VLSI Technology (IEC-053)
- Advance Digital Design using Verilog (IEC-054)- 3 Credit

Departmental Elective II - 3 Credits

- Optical Communication (IEC-055)
- Advance Semiconductor (IEC-056)
- Device IEC-057 Analog Signal (IEC-057)
- Designing with ASIC (IEC-058)

Departmental Elective III- - 3 Credits

- Microcontroller & Embedded System Design (IEC-061)
- Satellite Communication (IEC-062)
- Data Communication Networks (IEC-063)
- Antenna Theory and Design (IEC-064)

Departmental Elective IV- (KEC-071, KEC-072, KEC-073, KEC-074)- 3 Credits
Departmental Elective V- (KEC-075, KEC-076, KEC-077, KEC-078)- 3 Credits

Departmental Elective IV- 3 Credits

- Digital Image Processing (KEC-071)
- VLSI Design (KEC-072)
- Optical Network (KEC-073)
- Microwave & Radar Engineering (KEC-074)

Departmental Elective V- 3 Credits

- Information Theory & Coding (KEC-075)
- Wireless & Mobile Communication (KEC-076),
- Micro & Smart Systems (KEC-077)
- Speech Processing (KEC-078)

Criteria 1- Curricular Aspects

Interdisciplinary Subjects included in syllabus as Open Electives

Inter-Departmental Elective Courses (2nd Year)

- IOE035/ IOE045 Sensor & Instrumentation
- IOE038/ IOE048 Communication Engineering
- IOE039/ IOE049 Analog Electronics Circuits

Open Elective I (3rd Year)

- KOE063 Introduction to MEMS
- KOE062 Embedded System
- KOE066 GIS & Remote Sensing

Open Elective II (Final Year)

- KOE 071 Filter Design

Open Elective III (Final Year)

- KOE-082 Bio medical signal processing

Open Elective IV (Final Year)

- KOE-092 Computerized Process Control
- KOE-095 Modeling Of Field-Effect Nano Devices

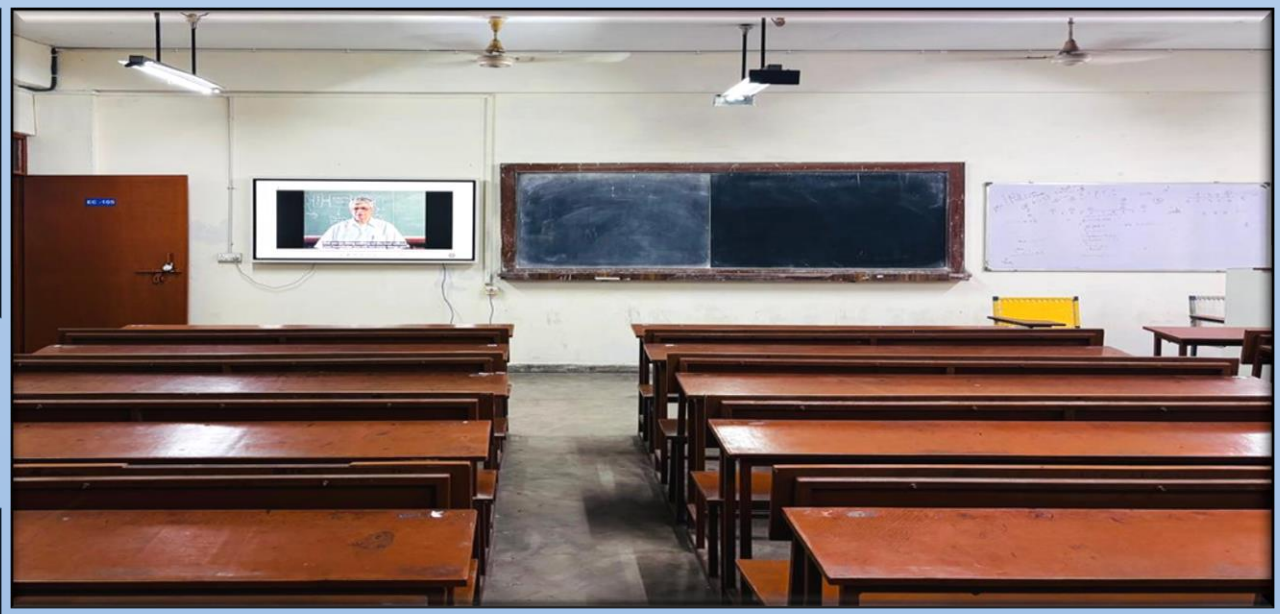
Student feedback for Vision, Mission , POs, PSOs and PEOs are taken, Course Exit Survey

Criteria 2- Teaching-Learning & Evaluation

- Smart Classrooms Available
- Focuses on learning through live examples in classrooms
- Mini Projects introduced in every Semester for project based Learning.

- Recorded Lectures available by AKTU on YouTube.
  AKTU Video Lecture series

- Virtual Lab available on AKTU website.
  Virtual Lab



Modern Teaching and Learning Space with Integrated Digital and Traditional Tool

- Outcome Based Education followed, CO are properly mapped with PO for every Subject
- Mentoring System Followed by assigning a faculty mentor to every student and proper guidance and timely mentoring is provided to every student.
- On the basis of Class Tests and End Semester Exams, Students are sorted who require remedial classes for respective subjects and proper remedial classes are arranged by subject faculties

Criteria 2- Teaching-Learning & Evaluation

ECD has distinguish the slow and Fast learners and mentor them accordingly as per following steps:-

Slow Learners:

Slow learners are students who require more time and support to grasp concepts compared to their peers. They may struggle with understanding, retaining, or applying academic content due to various factors like learning gaps, lack of foundational knowledge, or personal challenges.

Institutional Support for Slow Learners-

- Remedial classes or bridge courses
- Personalized mentoring and academic counseling
- Extra tutorial sessions and simplified study materials
- Use of bilingual explanations or visual aids
- Peer-assisted learning or buddy support systems

Fast Learners:

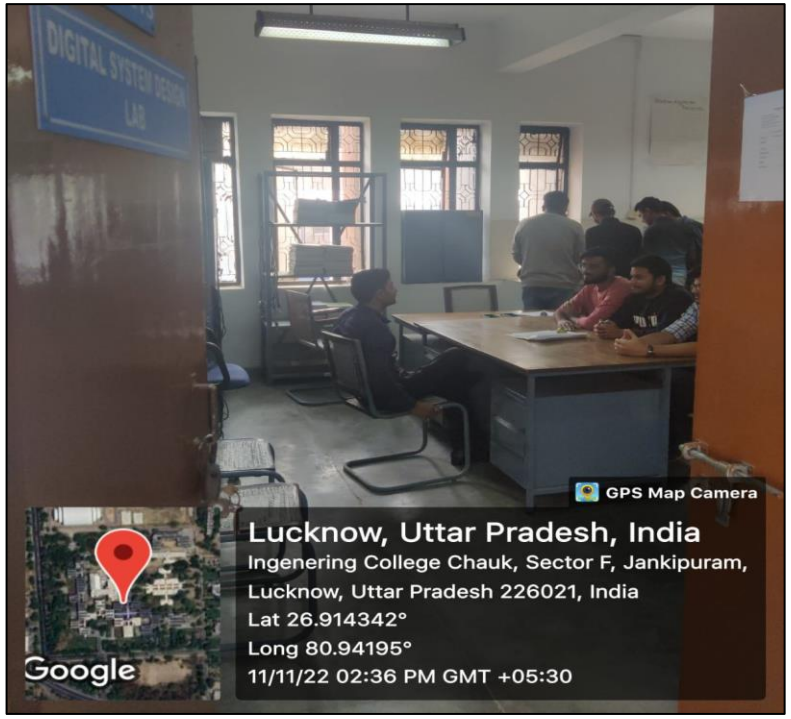
Fast learners are students who grasp new concepts quickly, often ahead of the curriculum pace. They usually demonstrate higher analytical skills, curiosity, and academic excellence.

Institutional Support for Fast Learners-

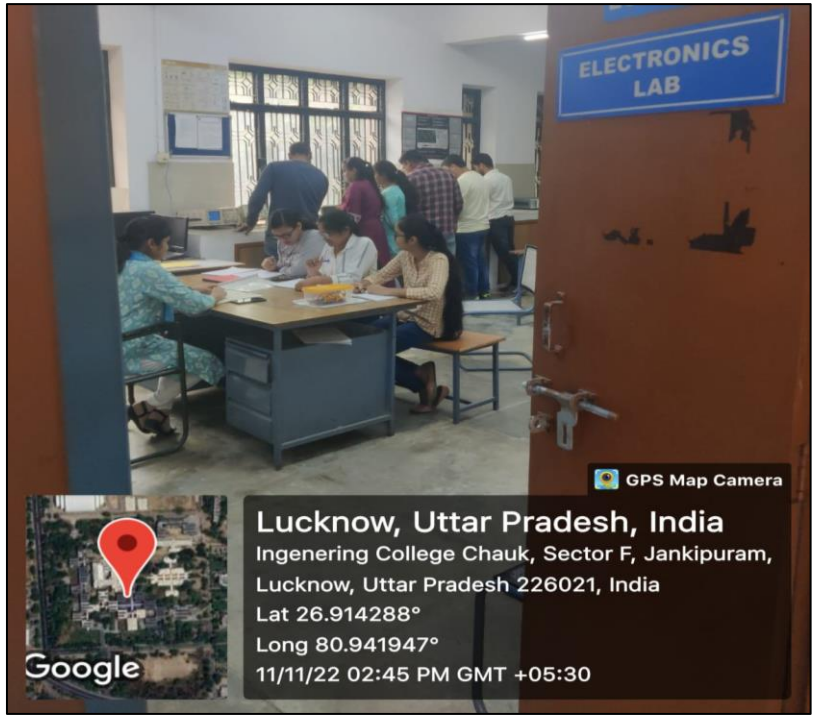
- Advanced learning modules or honors programs
- Involvement in research projects and innovation cells
- Opportunities for MOOCs/NPTEL courses
- Encouragement to participate in seminars, hackathons, and competitions
- Leadership roles in academic or co-curricular activities

Criteria 2- Teaching-Learning & Evaluation

1. **Participative Learning:** This method involves active engagement of students in the learning process through discussions, group work, peer teaching, and collaborative activities.
2. **Differential Learning**: Differential learning refers to tailoring instructional methods, content, and pace to meet the diverse needs, skills, and learning styles of individual students.
3. **Experiential Learning:** This is a hands-on, learning-by-doing approach where students gain knowledge and skills through direct experiences, such as simulations, fieldwork, internships, or laboratory activities.
4. **Problem-Solving Method:** This method focuses on developing learners' ability to analyze and solve real-world problems.



Participative Learning Method



Differential learning

Experiential Learning

Criteria 2- Teaching-Learning & Evaluation

Personalized Counselling for psychological issues

Problem-Solving Method

Case Study

Student Name - Md. Altamash
Roll No. - 200052032001

ECD bring to attention some psychological issues that our student, Md. Altamash (200052032001) is the student of Electronics and Instrumentation who is currently facing, as it might impact his academic performance. It is crucial for us to collaborate and provide the necessary support to ensure the best possible outcome for the student. To ensure the best output from Altamash, we have taken several steps some of those following steps are as displayed.

Institute of Engineering & Technology, Lucknow
(An autonomous Constituent Institute of Dr. A.P.J. Abdul Kalam Technical University)
Provisional Result
Session: 2022-2023

Name of Student: MOHAMMAD ALTAMASH
Father's Name: MOHAMMAD ARSHAD
Roll No: 2000520320036
Status: Carry
Course: B.Tech Electronics and Instrumentation Engineering
Semester: 3 Semester: 4

Subject Code	ESE Theory	ESE Practical	Sessional Theory	Sessional Practical	Grade	Obtained Credit	Subject Code.	ESE Theory.	ESE Practical.	Sessional Theory.	Sessional Practical.	Grade.	Obtained Credit.
KAS301	41	--	43	--	C	3.00	KAS402	7	--	30	--	F	0.00
KEC301	37	--	46	--	C	4.00	KEC401	31	--	41	--	D	3.00
KEC302	18	--	36	--	F	0.00	KEC402	6	--	21	--	F	0.00
KEC303	33	--	34	--	E	3.00	KEC403	14	--	30	--	F	0.00
KEC351	--	23	--	21	A	1.00	KEC451	--	18	--	22	A	1.00
KEC352	--	21	--	21	A	1.00	KEC452	--	17	--	16	B	1.00
KEC353	--	19	--	22	A	1.00	KEC453	--	22	--	16	B+	1.00
KEC354	--	--	--	39	B+	1.00							
KNC301	34	--	18	--	CL	0.00	KNC402	4	--	6	--	NCL	0.00
KNC305	15	--	20	--	CL	0.00	KNC405	15	--	19	--	CL	0.00
KOE036	40	--	49	--	C	4.00	KVE401	45	--	17	--	E	3.00

Carry over /Grace in (if any): KEC302, KAS402, KEC402, KEC403, /

SGPA 3 :- 5.14 SGPA 4 :- 2.43 YGPA :- 3.82

Result :- PCP(4)

Date of Declaration :- 28/08/2023

CP(0): PROMOTED WITHOUT CARRY PAPER, CP(N): PROMOTED WITH 'N' CARRY PAPER, CL: CLEARED, NCL : NOT CLEARED, PWG: PASSED WITH GRACE, PCP : PROMOTED WITH CARRY PAPER

Note: Institute does not own for the errors or omissions,if any, in this statement.

Institute of Engineering & Technology, Lucknow
(An autonomous Constituent Institute of Dr. A.P.J. Abdul Kalam Technical University)
Provisional Result
Session: 2022-2023

Name of Student: MOHAMMAD ALTAMASH
Father's Name: MOHAMMAD ARSHAD
Roll No: 2000520320036
Status: Regular
Course: B.Tech Electronics and Instrumentation Engineering
Semester: 5 Semester: 6

Subject Code	ESE Theory	ESE Practical	Sessional Theory	Sessional Practical	Grade	Obtained Credit	Subject Code.	ESE Theory.	ESE Practical.	Sessional Theory.	Sessional Practical.	Grade.	Obtained Credit.
KEC501	3	--	32	--	F	0.00	KEC063	51	--	32	--	C	3.00
KEC502	32	--	30	--	E	4.00	KIC601	38	--	34	--	D	4.00
KEC551	--	18	--	20	B+	1.00	KIC651	--	22	--	22	A	1.00
KEC552	--	18	--	16	B	1.00	KIC652	--	17	--	21	B+	1.00
KIC051	37	--	31	--	D	3.00	KIC603	33	--	34	--	E	4.00
KIC053	30	--	30	--	E	3.00	KNC602	32	--	12	--	C	0.00
KIC501	31	--	32	--	E	4.00	KIC602	30	--	36	--	E	4.00
KIC551	--	17	--	18	B+	1.00	KIC653	--	19	--	17	B+	1.00
KIC554	--	--	--	30	B	1.00							
KNC501	28	--	15	--	C	0.00	KOE066	34	--	32	--	E	3.00

Carry over /Grace in (if any): KEC501, /

SGPA 5 :- 4.05 SGPA 6 :- 5.10 YGPA :- 4.56

Result :- PCP(1)

Date of Declaration :- 04/07/2023

CP(0): PROMOTED WITHOUT CARRY PAPER, CP(N): PROMOTED WITH 'N' CARRY PAPER, CL: CLEARED, NCL : NOT CLEARED, PWG: PASSED WITH GRACE, PCP : PROMOTED WITH CARRY PAPER

Note: Institute does not own for the errors or omissions,if any, in this statement.

Criteria 3- Research, Innovation, and Extension

In last Five Years

- **Total 12 PhD awarded**
- **20- PhD ongoing and 5-PhD Permitted for thesis writing by RDC**

More than 300 Publications by department in last Five Years. (ECD Publications) and 55 FDPs

4 CST project have been awarded to Dr. RAJIV KUAMR SINGH (Assistant Professor) under the umbrella of ECD the details of research project under Council of Science and Technology (CST), UP are as follows:-

S.No.	Name of Faculty	Designation	Associated to program	Title of the Research Project	PI/ Co-PI	Duration of the Project	Amount (In Lakhs)	Completed /Ongoing
1	Dr. Rajiv Kumar Singh	Assistant Professor	B.Tech (EC)	Design and development of RF interaction Structure for High Power High Frequency microwave sources and Amplifier	PI	3 Years (2018-2021)	11.64	Completed
2	Dr. Rajiv Kumar Singh	Assistant Professor	B.Tech (EC)	Beam Wave Interaction in a Multi-Stage Gyro-Travelling Wave Tube Amplifier	PI	3 Years (2019-2022)	16	Completed
3	Dr. Rajiv Kumar Singh	Assistant Professor	B.Tech (EC)	Development of Solar & Wind Energy Based Micro- Grid and Analysis of Power Quality Issues in Islanded and Interconnected Mode of Operation	Co-PI	3 Years (2019-2022)	16	Completed
4	Dr. Rajiv Kumar Singh	Assistant Professor	B.Tech (EC)	Gyro- Travelling Wave Tube Amplifier design for RADAR application	PI	3 Years Started from 2023	19.58	Ongoing

Criteria 3- Research, Innovation, and Extension

NPTEL STARS

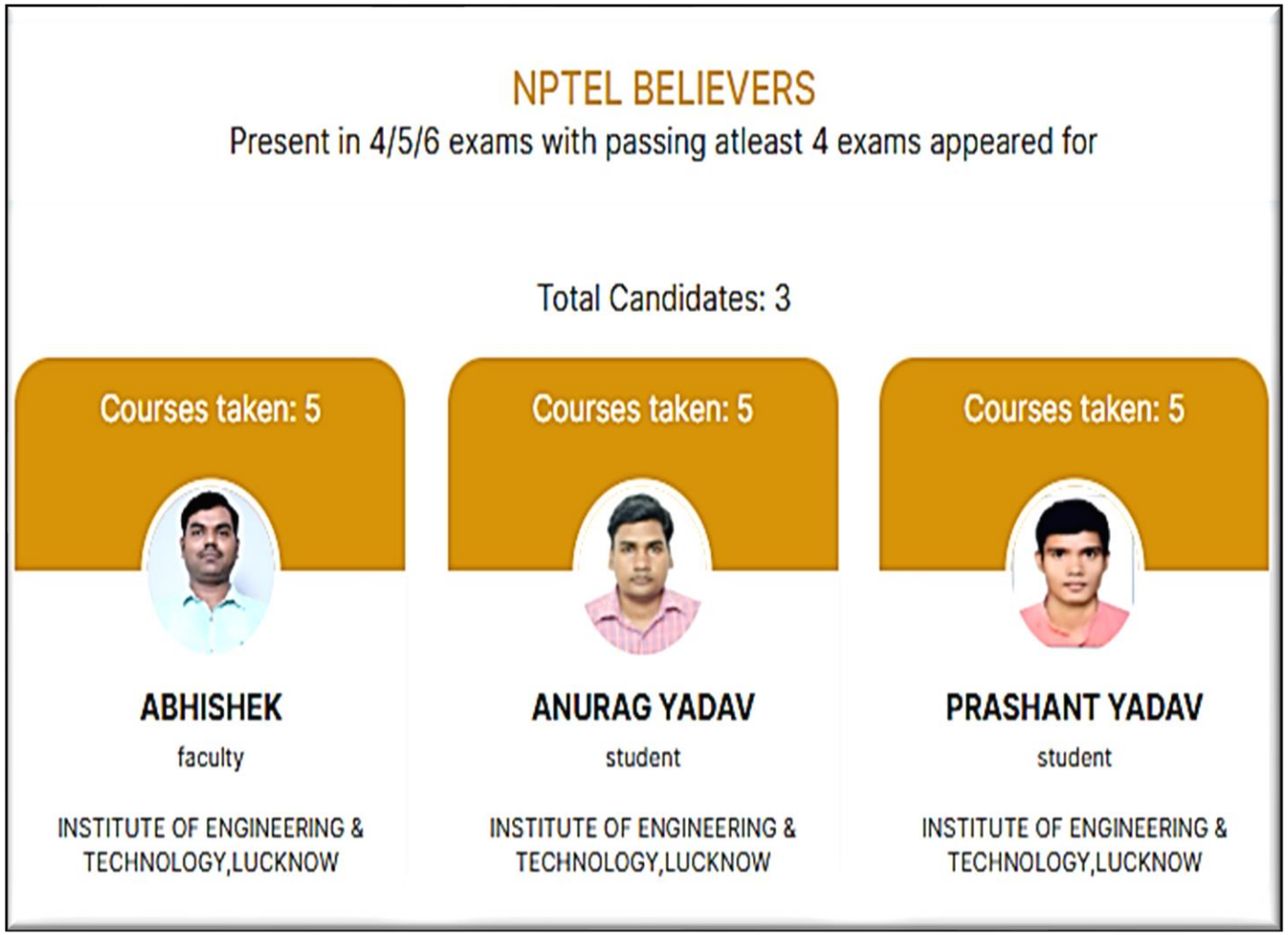
Total **150 NPTEL courses** have been successfully completed by Faculty/ Student in last five year

Recognition of Excellence: Two Faculties of ECD **Dr. Abhishek** and **Er. Anurag Yadav** Honored as NPTEL STARs

EC department of IET LUCKNOW are delighted to announce that Dr. Abhishek (Faculty) and Er. Anurag Yadav (Faculty and Ph.D. Scholar), and Prashant Yadav (B.tech Student) have been conferred the prestigious NPTEL STAR award under the NPTEL BELIEVERS category.

This recognition is a testament to their unwavering commitment to lifelong learning and their active participation in online education through the National Programme on Technology Enhanced Learning (NPTEL)—an initiative by the Government of India under the Ministry of Education.

The NPTEL Their achievement is not only a personal milestone but also a moment of pride for the entire institution. It highlights the role of educators who go beyond traditional classrooms to adopt digital platforms, fostering a culture of innovation and knowledge-sharing.



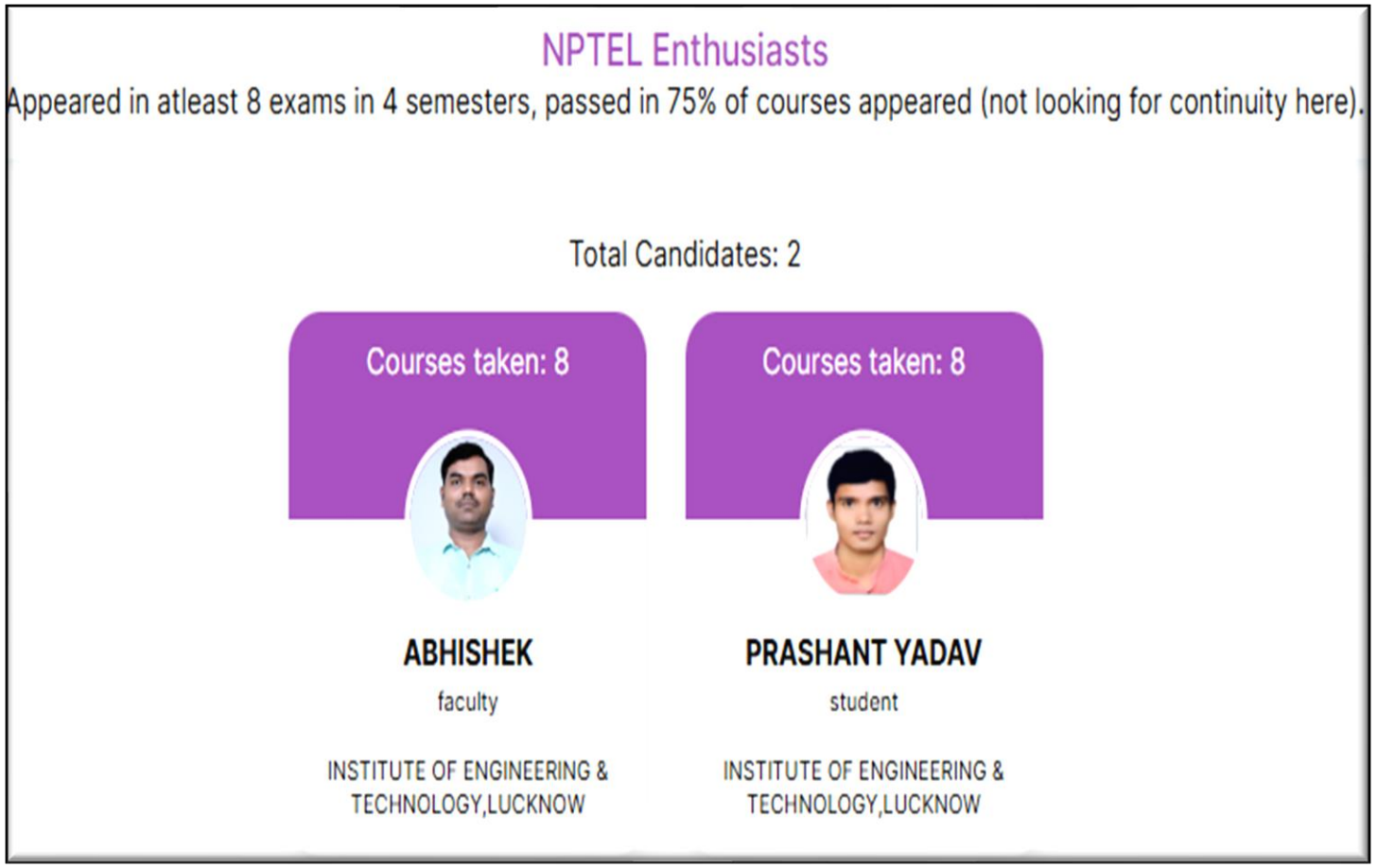
Criteria 3- Research, Innovation, and Extension

NPTEL STARS

Recognition of Excellence: Dr. Abhishek and Prashant Yadav Honored as NPTEL STARs

The Department of Electronics and Communication Engineering (EC) at Institute of Engineering and Technology (IET), Lucknow, is delighted to share a moment of great pride and academic excellence. Dr. Abhishek, serving as a Faculty in EC department, and Mr. Prashant Yadav, a dedicated B.Tech student, have been honored as in the distinguished category **NPTEL STARS** of **NPTEL Enthusiasts.**

This recognition, awarded by the National Programme on Technology Enhanced Learning (NPTEL)—an initiative of the Ministry of Education, Government of India—acknowledges individuals who have shown an exceptional level of engagement and passion for learning through NPTEL's online courses.



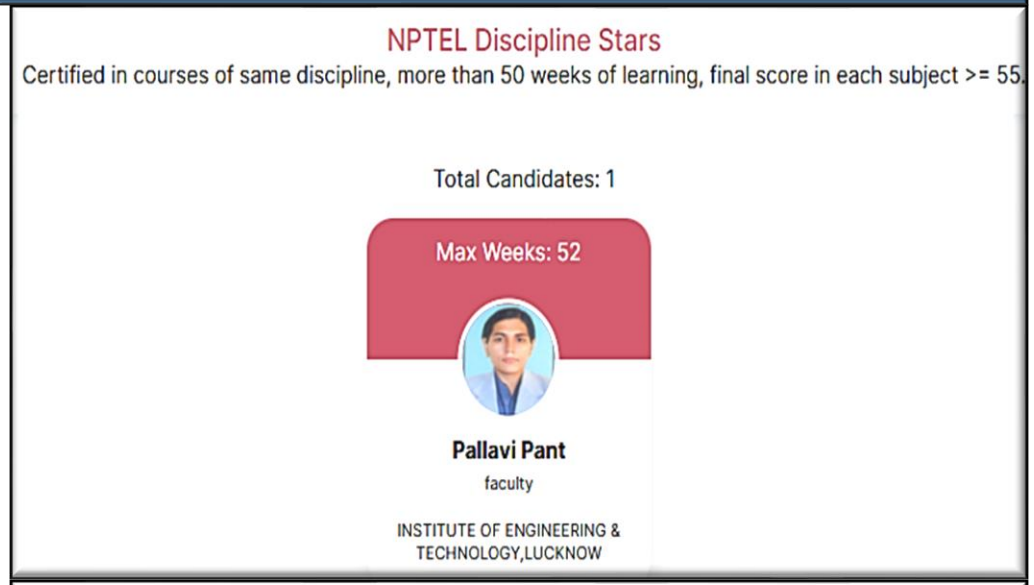
Criteria 3- Research, Innovation, and Extension

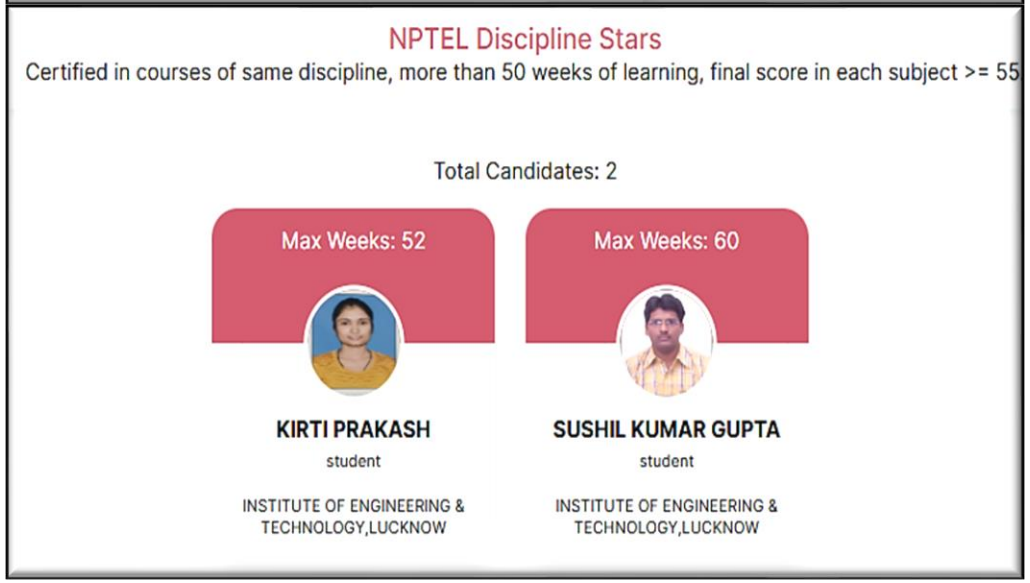
NPTEL STARS

Celebrating Academic Excellence:
NPTEL Discipline Star Awardees

The Department is proud to announce that Er. Pallavi Pant (2025), Er. Kirti Prakash (2024), and Er. Sushil Kumar Gupta (2024) have been recognized as NPTEL STARS under the prestigious NPTEL Discipline Stars category.

This recognition is part of the National Programme on Technology Enhanced Learning (NPTEL) initiative by the Ministry of Education, Government of India, aimed at promoting quality education through online learning. The Discipline Star category honors individuals who have consistently excelled in NPTEL courses within a particular domain or specialization, showcasing deep subject understanding and sustained commitment to academic advancement.





Criteria 3- Research, Innovation, and Extension

To promote Research and Innovation *IEEE Student Chapter* in the EC Department contributes different types of regular activities which enhance the knowledge of students along with improving their communication skills.

IEEE Student Branch STB62961
IET Lucknow
2024 Office Bearers

Name	Position
Prof. Vineet Kansal, Director	Patron
Prof. Neelam Srivatava	Counsellor
Dr. Seethalekshmi K.	Dean
Anurag Yadav	Department Chair
Pallavi Pant	Chair
Kirti Prakash	Vice Chair
Jaspreet Kaur	Vice Chair
Sheetal Singh	Secretary
Rahul Singh	Treasurer
Km Akhya Pandey	Webmaster

A Seminar On TCAD ATLAS SILVACO TOOL For Semiconductor Device Simulation

IEEE Women In Engineering Day

World Telecommunication And Information Society Day 2024

Sense Of Belongingness And Commitment In The Workplace.

Criteria 3- Research, Innovation, and Extension

IEEE DAY 2024: Leveraging Technology For A Better Tomorrow

ANKURAN

Various technical activities like Robo Soccer, Robo Sumo, Water Bottle Rocket, Robo Race etc. and various cultural and sports related activities were organized

TECHNOVATION: "Leveraging Technology For Sustainable Development"

WIE Affinity Group of IET IEEE Student branch hosted "Technovation", on 19-20 Nov. 2024.

FEMALE HEALTH under IEEE

Criteria 3- Research, Innovation, and Extension

EXPERT LECTURE SERIES

The lecture series, conducted in hybrid mode, provided a platform for knowledge exchange, highlighting advancements in technology and career opportunities.

Speaker: Mr. Sampann Nigam, Program Manager at CISCO, USA

Topic: Introduction to Generative AI (BERT)

Speaker: Mr. Gaurav Dixit, Strategic Alliances Manager, Lefdal Mine Datacenter, Norway.

Topic: Market and Career Scope in IT & Allied Hardware Industries

Criteria 3- Research, Innovation, and Extension

EXPERT LECTURE SERIES

The lecture series, conducted in hybrid mode, provided a platform for knowledge exchange, highlighting advancements in technology and career opportunities.

Speaker:
Dr. Ashutosh Kumar Singh, HOD ECE, Dr. RML Avadh University

Topic: Fault Management Scheme in Survivable Optical Networks

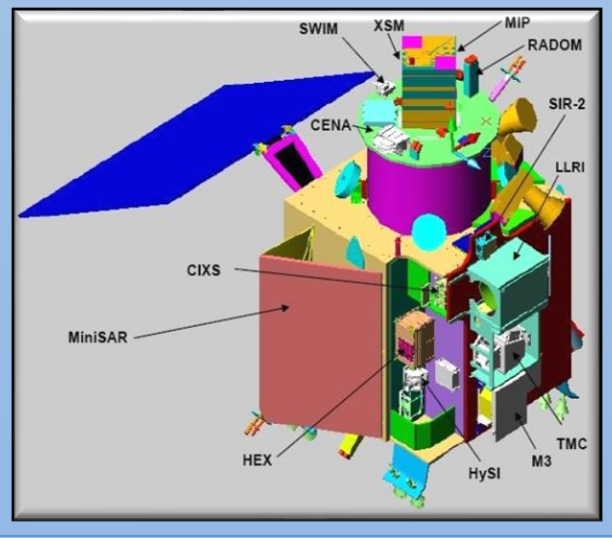
Speaker:
Dr. Rajiv Kumar Singh, Assistant Professor, ECE Department, IET Lucknow

Topic: Assessment of Electromagnetic Field Radiation from Cellphone Towers

Criteria 3- Research, Innovation, and Extension

Chandrayan Chronicles : Insights from the ISRO Scientist's Talk

PRESENTED BY :- Ritesh Sharma, Dep. Project Director - SpaceApplication Center, ISRO



आईईटी के छात्रों को मिली चन्द्रयान 3 से जुड़ी जानकारी

पायनियर समाचार सेवा। लखनऊ

इंस्टीट्यूट ऑफ इंजीनियरिंग एण्ड टेक्नोलॉजी लखनऊ के इलेक्ट्रानिक्स एण्ड कम्युनिकेशन इंजीनियरिंग विभाग में शुक्रवार को संस्थान के निदेशक प्रो विनीत कंसल की अध्यक्षता में बीटेक ईसीई एवं बीटेक ईआईई तथा बीटेक मैकेनिकल इंजीनियरिंग के छात्र-छात्राओं के लिये चन्द्रयान.3 के सम्बन्ध में विशिष्ट अतिथि द्वारा व्याख्यान का आयोजन किया गया। इस व्याख्यान में भारतीय अंतरिक्ष अनुसंधान केन्द्र के स्पेस एप्लीकेशन सेन्टर में कार्यरत इं रितेश शर्मा, डिप्टी प्रोजेक्ट निदेशक द्वारा विद्यार्थियों को चन्द्रयान. 3 प्रोजेक्ट के विषय में विस्तृत जानकारी दी। रितेश शर्मा इंस्टीट्यूट ऑफ इंजीनियरिंग एण्ड टेक्नोलॉजी लखनऊ के इलेक्ट्रानिक्स एण्ड कम्युनिकेशन इंजीनियरिंग विभाग के एल्यूमनाई भी हैं। इस कार्यक्रम का संचालन आईईई स्टूडेंट चैप्टर, आईईटी लखनऊ के माध्यम से किया गया। कार्यक्रम के आयोजन का समन्वयन विभाग के विभागाध्यक्ष प्रो सुबोध वैरिया, प्रोफेसर एवं प्रो नीलम श्रीवास्तव, प्रोफेसर के एवं डा आरसीएस चौहान द्वारा किया गया। इस व्याख्यान में विभाग के अन्य शिक्षकगण डा राजीव कुमार सिंह, अमित कुमार एवं प्रो एसआरपी सिन्हा (सेवानिवृत्त) विशेष अतिथि के रूप में उपस्थित रहे। व्याख्यान में बीटेक ईसीई, बीटेक ईआईई तथा बीटेक मैकेनिकल इंजीनियरिंग के लगभग 100 छात्र-छात्राओं द्वारा पूरे उत्साह के साथ प्रतिभाग किया गया।

Criteria 3- Research, Innovation, and Extension

मोहसिन अफरोज को चांसलर, प्रज्ञा गौतम को कमल रानी वरुण मेडल

माई सिटी रिपोर्टर

लखनऊ। एकेटीयू के दीक्षांत समारोह में मेरठ इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (एमआईईटी) के बीटेक इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग के छात्र मोहसिन अफरोज को चांसलर मेडल मिला। पहली बार चांसलर मेडल के साथ 31 हजार रुपये का नकद पुरस्कार भी दिया गया। इसे यूओवी ने स्पांसर किया था।

कमल रानी वरुण स्मृति मेडल पीएसआईटी कॉलेज ऑफ इंजीनियरिंग कानपुर के बीटेक इंफॉर्मेशन टेक्नोलॉजी की छात्रा प्रज्ञा गौतम को मिला। समारोह में कुल 95 गोल्ड, सिल्वर और ब्रॉन्ज मेडल दिए गए। मेडल पाने वालों में 75 फीसदी छात्राएं रहीं। पहली बार सौ से अधिक (112) को पीएचडी की उपाधि दी गई। कुल 50,162 छात्रों को डिग्री अवॉर्ड की गई, जो ऑनलाइन डिग्री लॉकर पर अपलोड की गई।

पहली बार चांसलर मेडल के साथ दिया 31 हजार का नकद पुरस्कार

दीक्षांत समारोह में 95 को मिले मेडल, 50,162 को डिग्री अवॉर्ड की गई

स्टार्टअप अवॉर्ड से सम्मानित प्रशांत वर्मा, आराधना कनौजिया और आदित्य सिंह। -संवाद

पहली बार दिया गया बेस्ट स्टार्टअप अवॉर्ड

दीक्षांत समारोह में पहली बार तीन युवाओं को बेस्ट स्टूडेंट स्टार्टअप अवॉर्ड भी दिया गया। बेस्ट वुमेन लीड स्टार्टअप अवॉर्ड विभि के घटक संस्थान आईईटी की छात्रा आराधना कन्नौजिया के स्टार्टअप वाइल नेटवर्क प्राइवेट लिमिटेड को दिया गया। बेस्ट सोशल इम्पैक्ट स्टार्टअप अवॉर्ड डॉ. अंबेडकर इंस्टीट्यूट ऑफ टेक्नोलॉजी फॉर दिव्यांगजन के आदित्य सिंह के स्टार्टअप एरेंपनेस प्राइवेट लिमिटेड को दिया गया। बेस्ट टेक इनोवेशन स्टार्टअप अवॉर्ड मेरठ इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी के छात्र प्रशांत वर्मा को स्टार्टअप पीवीएचकेआर साइबर सिक्योरिटी प्राइवेट लिमिटेड के लिए मिला।

लखनऊ, 28 दिसंबर, 2023 दैनिक जागरण

बी.टेक. की पढ़ाई के लिए दिया प्लेटफार्म

आराधना कनौजिया

आज बहुत से छात्र-छात्राएं पढ़ने के लिए यूट्यूब पर सर्च करते हैं। जैसे ही वह यूट्यूब खोलते हैं, कई तरह के वीडियो उनके सामने खुल जाते हैं। कई बार वह इससे भटक जाते हैं। इसकी वजह से वह अपने विषय तक नहीं पहुंच पाते। इस तरह की समस्या का समाधान आराधना कनौजिया ने अपने स्टार्टअप 'व्हाइल नेटवर्क' से दिया है। इसके लिए उन्हें बेस्ट वुमेन लेड स्टार्टअप अवार्ड मिला। इंस्टीट्यूट आफ इंजीनियरिंग एंड टेक्नोलाजी लखनऊ की बी.टेक. की छात्रा अराधना कनौजिया ने अपने स्टार्टअप वाइल नेटवर्क प्राइवेट लिमिटेड से रजिस्टर्ड किया है। इस प्लेटफार्म पर उन्होंने बी.टेक. के छात्रों को पढ़ने के लिए कंटेंट उपलब्ध कराया है, जो पूरी तरह से निशुल्क है। इस प्लेटफार्म से बगैर किसी भटकाव के छात्र अपने विषय से संबंधित वीडियो तक पहुंच जाते हैं। इससे उनका समय बचता है। अभी यह प्लेटफार्म केवल बी.टेक. के छात्रों को फोकस करके तैयार किया गया है। अराधना ने इसके प्रोटोटाइप का फरवरी 2023 में रजिस्ट्रेशन कराया। हार्डवेयर से लेकर साफ्टवेयर की सभी समस्याओं को यहां समाधान मिलता है। इसके अलावा यदि कोई रियल लाइफ में प्राब्लम फेस कर रहा है, तो इस प्लेटफार्म के माध्यम से सीधे विशेषज्ञ से संपर्क करने की सुविधा भी है।

SMART STARTUP (INNOVATION) 2023

DPIIT-recognized-Registered under Startup India, Awarded by the Hon'ble Governor of Uttar Pradesh as the **Best Women-led Startup, While Network Private Limited**, established in 2023, is an innovative DPIIT-recognized startup that is reshaping the future of social media with a unique focus on knowledge sharing and mental growth.

Criteria 3- Research, Innovation, and Extension

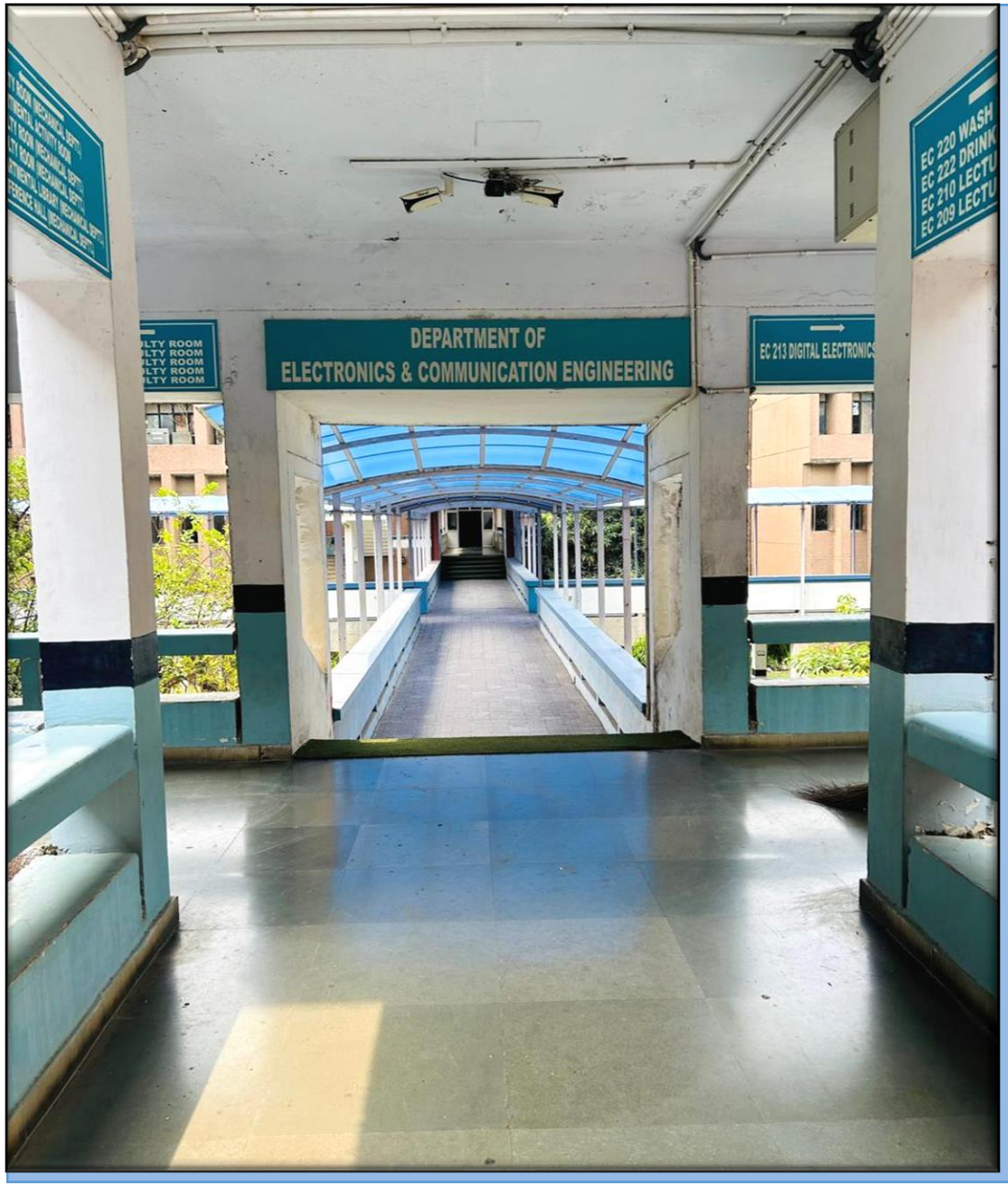
SMART STARTUP (INNOVATION) 2024

RedLinear at Navonmesh AIdea Hackathon

RedLinear Automation Pvt. Ltd. is a robotics startup focused on building scalable, intelligent Autonomous Mobile Robots (AMRs) designed specifically for Indian environments. At RedLinear, the students integrated SLAM-based navigation, AI-powered perception, and in-house developed hardware and software into a unified full-stack platform. The robots are engineered for dynamic, real-world applications such as restaurants, warehouses, and public service environments.

Our team recently participated in the prestigious Navonmesh AIdea 24-hour Hackathon, where we proudly secured **1st place among 280 teams**. The students of EC Department, IET LUCKNOW Ankit and Anurag of Btech Final year have **honored to receive the prize of INR 51,000 directly from the Honorable Governor of Uttar Pradesh.** This recognition was a testament to their impact in the field of robotics and AI.

Criteria 4- Infrastructure and Learning Resources



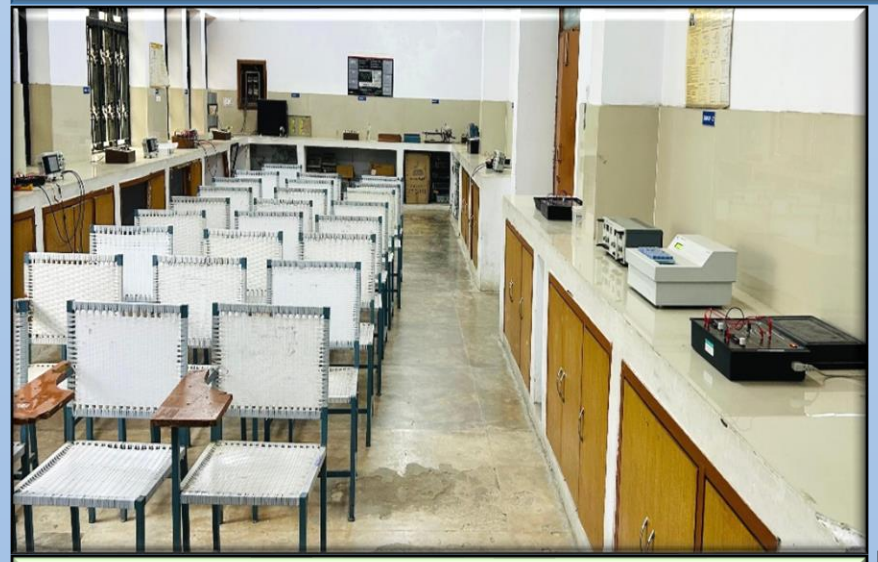
- Department have total 15 Labs
- 7 Lecture Rooms
- Conference Hall
- Seminar Hall
- Departmental Library
- Faculty Meeting Room
- Faculty and Research Scholar Rooms

LIST OF LABORATRY

- Basic Electronics Engineering Lab
- Network Analysis And Synthesis Lab
- Microprocessor & Microcontroller Lab
- Instrumentation And Sensor Lab
- Project Lab
- Industrial Instrumentation Lab
- Computer Aided Design Lab
- Digital System Design Lab
- Communication Engineering Lab
- Analog Electronics Lab
- Microwave Engineering
- Antenna Design Lab
- Digital Signal Processing Lab
- Analog Signal Processing Lab
- VLSI Design Lab

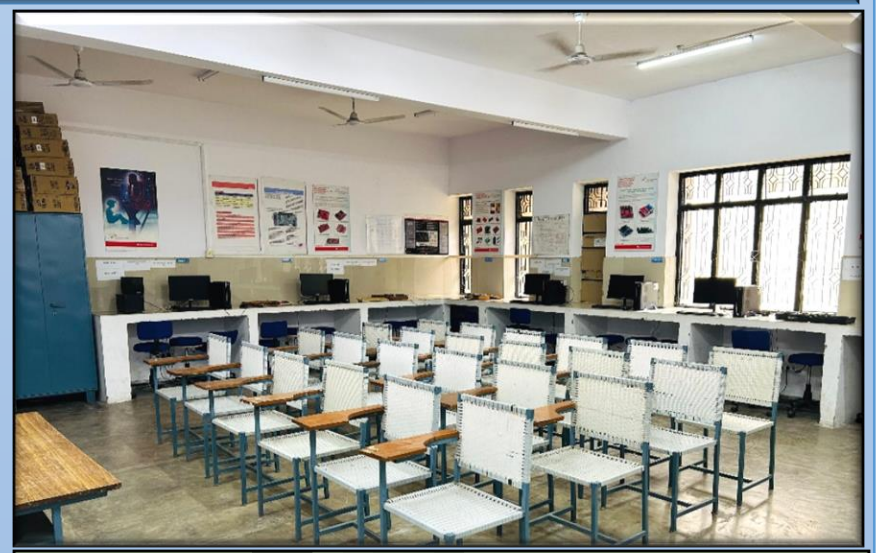
Criteria 4- Infrastructure and Learning Resources

Laboratories of Electronics & Communication Engineering Department



Basic Electronics Engineering Lab

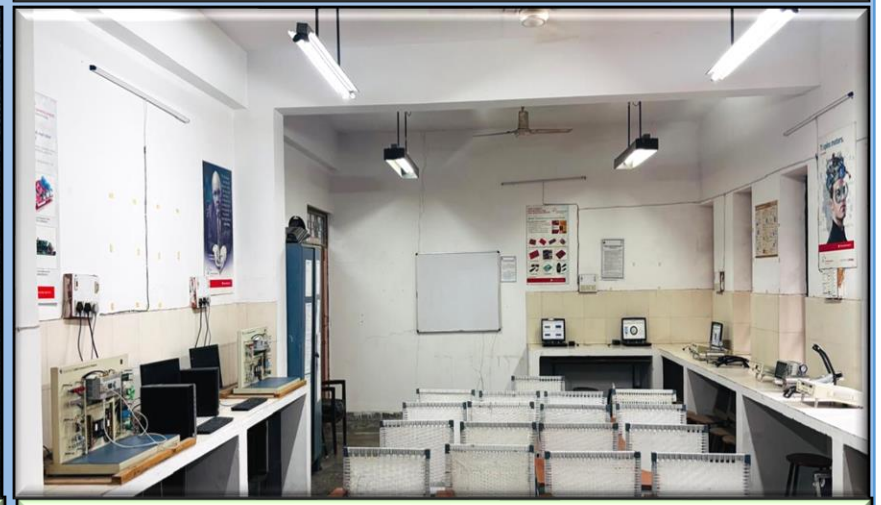
Network Analysis and Synthesis Lab



Microprocessor & Microcontroller Lab

Instrumentation and Sensor Lab

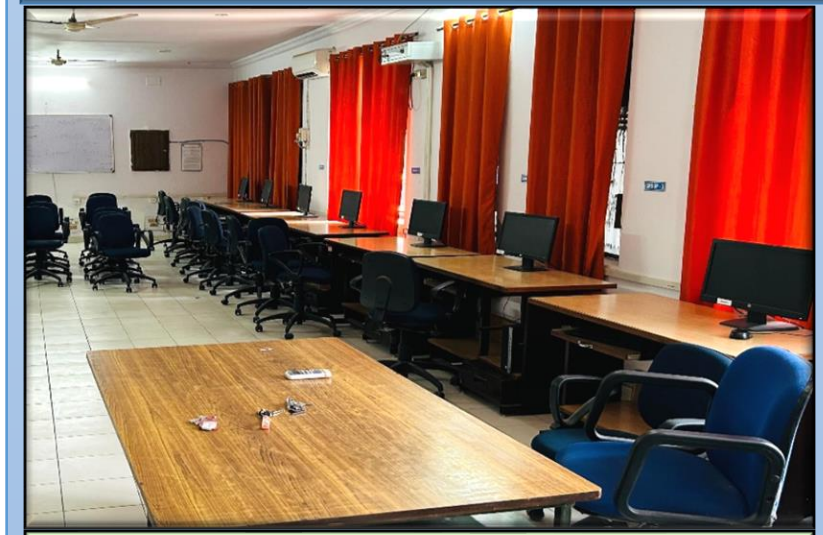
Project Lab



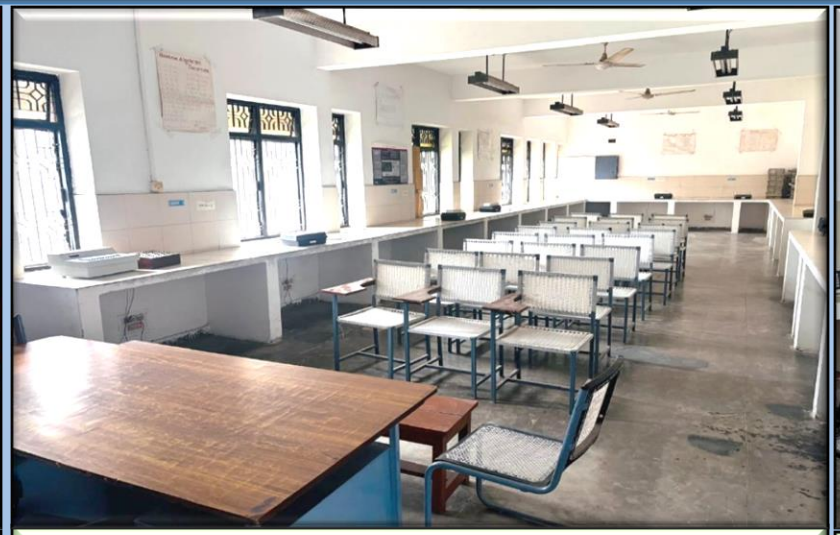
Industrial Instrumentation Lab

Criteria 4- Infrastructure and Learning Resources

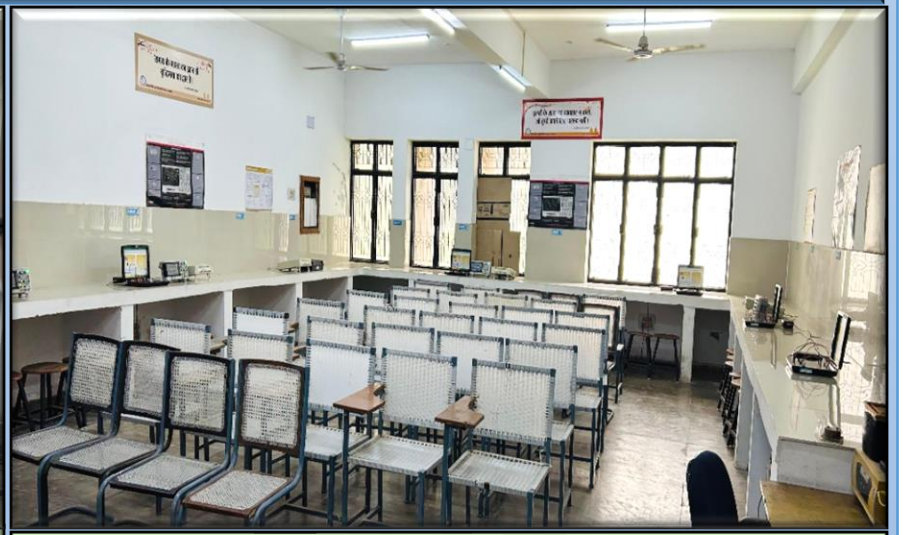
Laboratories of Electronics & Communication Engineering Department



Computer Aided Design Lab



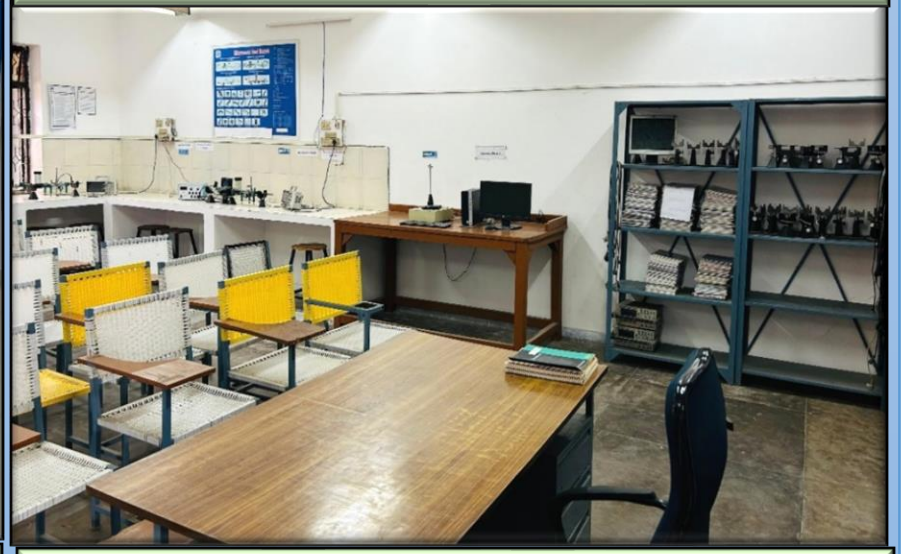
Digital System Design Lab



Communication Engineering Lab

Analog Electronics Lab

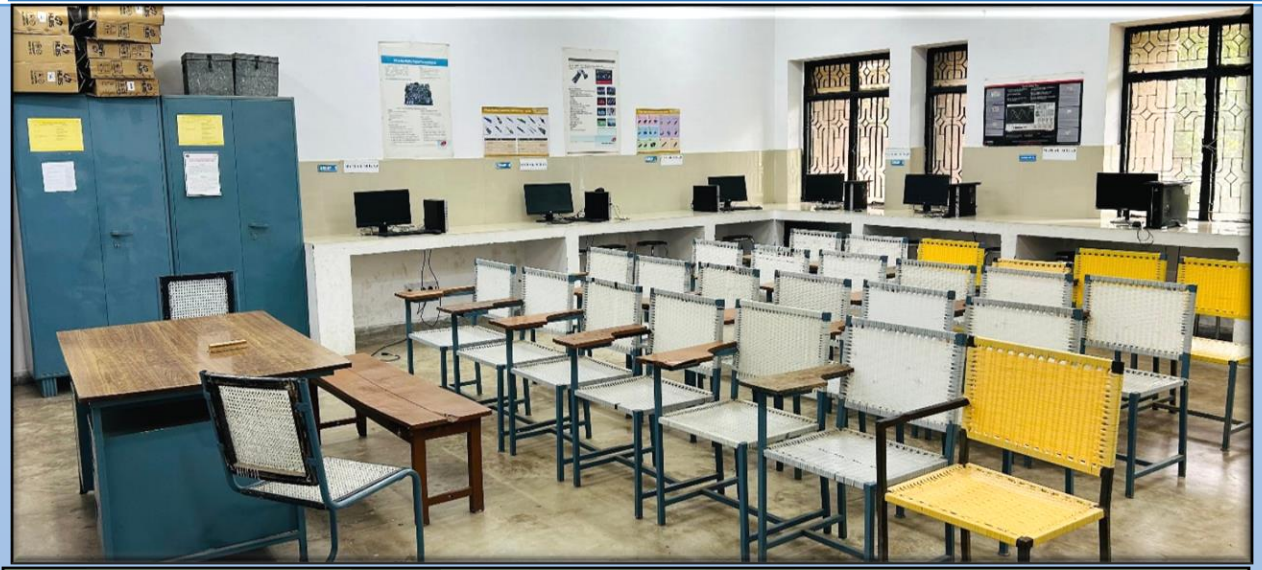
Microwave and RADAR Engineering Lab



Antenna Design Lab

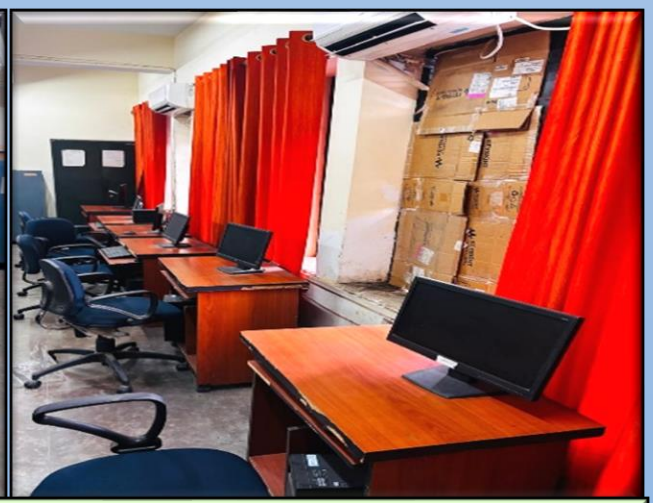
Criteria 4- Infrastructure and Learning Resources

Laboratories of Electronics & Communication Engineering Department



Digital Signal Processing Lab

Analog Signal Processing Lab



VLSI Design Lab

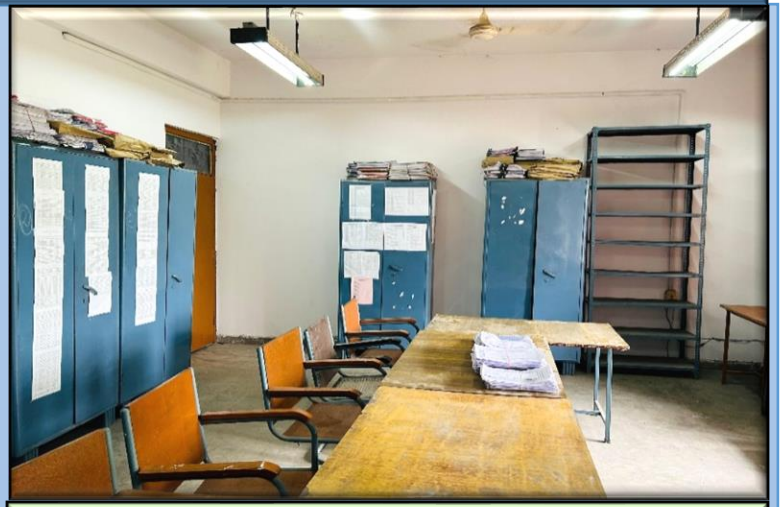
Seminar Hall

Criteria 4- Infrastructure and Learning Resources

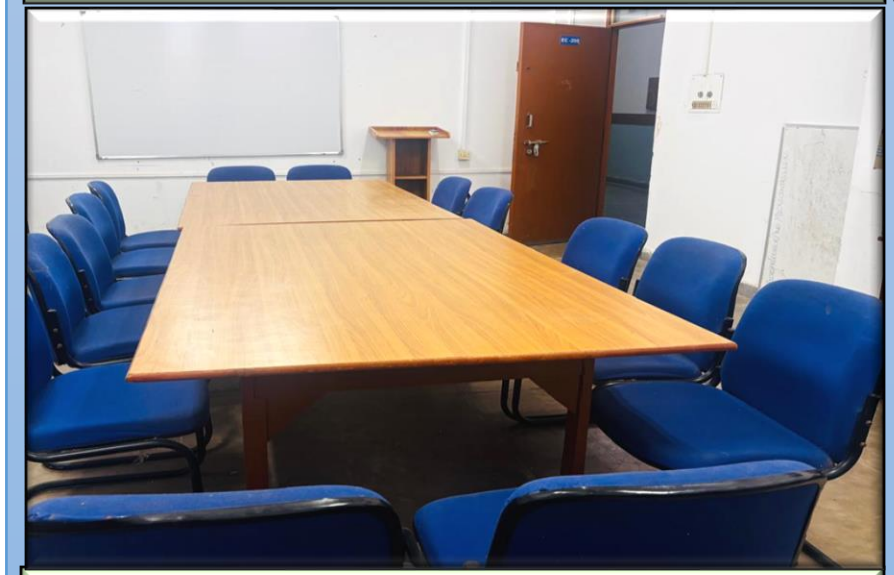
Lecture/Meeting Rooms of Electronics & Communication Engineering Department

Smart Lecture Hall

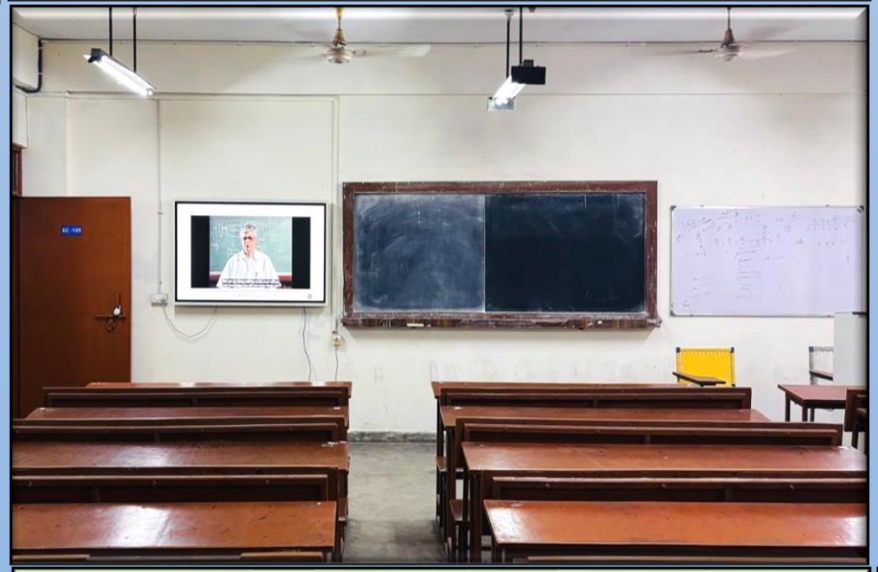
Conference Hall



Departmental Library



Faculty Meeting Room



Smart Classroom

Lecture Hall

Criteria 5- Student Support and Progression

PLACEMENT DATA

INTERNSHIP DATA	2021-22	2022-23	2023-24
B.Tech Final year 2023-24→ 21 2024-25→ 16	Total- 65 Placed- 22 Higher Studies-08 Gate-32	Total-72 Placed- 23 Higher Studies-07 Gate-18	Total-72 Placed- 25 Higher Studies-10 Gate-33

Technovation
"Leveraging Technology For Sustainable Development"
Mr. Manoj Kumar, Senior Application Engineer
at DesignTech Systems private limited.
Session on AI/ML and IoT Tools on MATLAB

Er. Gaurav Dixit
Position Service Delivery Manager at Lefdal Mine Data Centre,
Alumni: B.Tech. ECE, Year 2002
Topic: AI, ML & Cloud Computing

Mentors are allotted to each student for guidance and career counselling.

Scholarships:

UP Post Matric Scholarship, MHRD, Gate, PG Scholarship, IDF & Homi Bhabha Fellowship

Criteria 5- Student Support and Progression

SEED is refer to Society for Electronics Exploration and Development (SEED). All the cultural and technical Fest/Activity/Event have been celebrated under the SEED Society.

ANKURAN 2024 under the umbrella of SEED SOCIETY, ECE Department

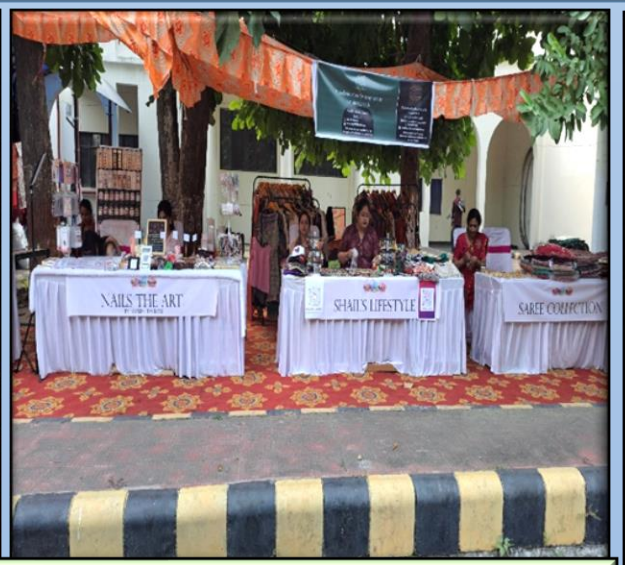
- **Following students of III year have been nominated as the members of Executive Committee of SEED for the session 2024-25**

Name	Branch	Post
Sarthak Sachan	EC-IIIrd Year	Coordinator
Bhanavee Tripathi	EC-IIIrd Year	Coordinator
Sparsh Gupta	EC-IIIrd Year	Co-Coordinator
Nikita	EC-IIIrd Year	Co-Coordinator
Harshit Agarwal	EC-IIIrd Year	Treasurer
Devansh Malik	EC-IIIrd Year	Member
Shreyansh Rai	EC-IIIrd Year	Member
Paridhi Agarwal	EC-IIIrd Year	Member
Ashutosh Kumar Singh	EC-IIIrd Year	Member
Aman Kushwaha	EC-IIIrd Year	Member
Prashant Verma	EC-IIIrd Year	Member
Prabodhini Singh	EC-IIIrd Year	Member
Samridh Gupta	EC-IIIrd Year	Member
Raj Dwivedi	EC-IIIrd Year	Member
Shreyansh Singh	EC-IIIrd Year	Member
Ayesha Noor	EC-IIIrd Year	Member

Criteria 5- Student Support and Progression

ANKURAN 2024 (A cultural Fest of ECD) under the SEED SOCIETY, ECE Department

Inauguration of Ankuran



Kalakriti Bazar- Art & Craft Exhibition

Kavi Sammelan

Band Concert Singing and Dancing

Criteria 5- Student Support and Progression

ANKURAN 2024 (Technical and Cultural fest) by SEED SOCIETY of ECE Department

Ankuran is an annual festival organized to help students showcase their talent, particularly in the field of technology, serving as IET's only dedicated tech-fest. The festival was inaugurated by Director Dr. Vineet Kansal Sir and organized by the Electronics Department under the banner of SEED, with sponsorship from Kalakriti Bazar. Ankuran features diverse technical events including robo race, robo soccer, sumo bots, water rocket competitions, and comprehensive hackathons covering both software and hardware development.

Criteria 5- Student Support and Progression

➢ Session on AI/ML and IoT Tools on MATLAB

Er. Ram Parves, Position: Deputy General Manager (DGM) at BEL Alumni: BTech ECE Branch, 2002
Topic: Navigating the Future Trends in India's Aerospace and Defence Industry

Criteria 6- Governance, Leadership and Management

Faculty in Leadership Role

Dr. Subodh Wairya (BOS Chair Person)	Dr. Subodh Wairya (Chief Warden, IET, Lucknow)	Dr. Subodh Wairya (Dean Student Welfare IET, Lucknow)
Dr. Neelam Srivastava (Chief Warden IET, Lucknow)	Dr. Neelam Srivastava (Proctor, IET, Lucknow)	Dr. Neelam Srivastava (Dean Training & Placement AKTU)

Stakeholders are involved in BOS meetings while discussing curriculum

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
INSTITUTE OF ENGINEERING & TECHNOLOGY
SITAPUR ROAD, LUCKNOW – 226 021

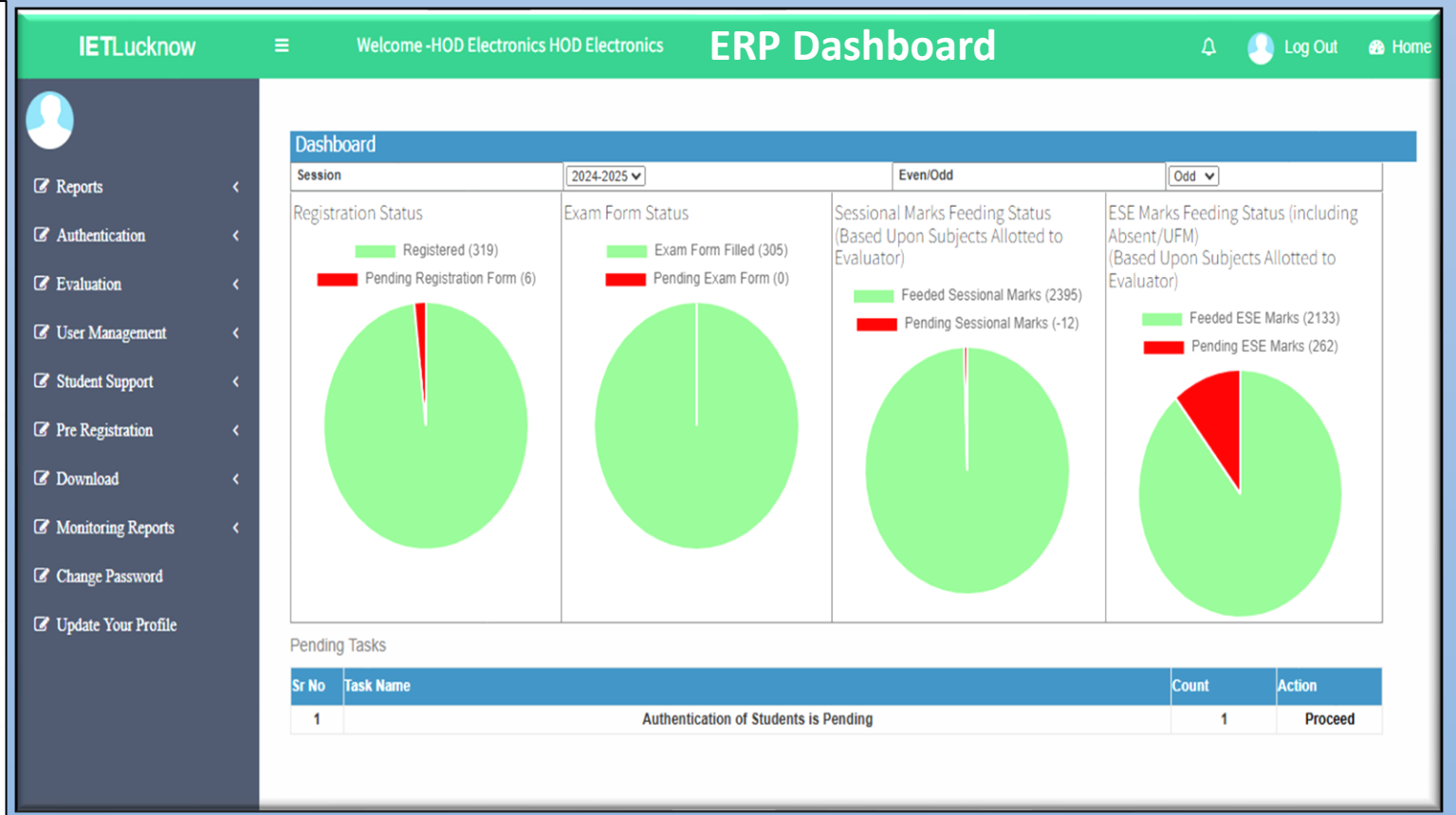
IET/ECD/2024- 1883 (A) Date: - 15/07/2024

OFFICE-ORDER

Following is the details of Board of Studies of Electronics & Communication Engineering Department for Session 2024-25.

Prof. Subodh Wairya	E.C.D.,I.E.T. Lucknow	Chairman BOS & Head of Department
Prof. Neelam Srivastava	E.C.D.,I.E.T. Lucknow	Internal Member
Dr. R.C.S Chauhan	E.C.D.,I.E.T. Lucknow	Internal Member
Er. Amit Kumar	E.C.D.,I.E.T. Lucknow	Internal Member
Dr. Rajiv Kr. Singh	E.C.D.,I.E.T. Lucknow	Internal Member
Er. Anurag Yadav	M.Tech. Microelectronics, IET Lucknow	Internal Member
Er. Anum Khan	M.Tech. Microelectronics, IET Lucknow	Internal Member
Prof. Sanjay Mathur	ECE Dept. GBPUA&T, Pantnagar.	External Member
Prof. Neetesh Purohit,	ECE Department, IIIT Allahabad	External Member
Er. Gaurav Dixit	Service Delivery Manager Lefdal Mine Data Centre in Europe	External Member
Dr. Mahesh Chandra	Senior Principal NXP Semiconductor, Noida.	External Member
Dr. Sanjeev Tyagi	Rohilkhand University, Bareilly	External Member
Prof. DS Yadav	Head CSE, IET, Lucknow	Internal Member
Prof. Virendra Pathak	Self Finance Deptt. IET Lucknow	Internal Member
Sparsh Gupta	B.Tech. ECE Deptt. 3rd Year Roll No. 2200520310056	Student Representative
Priya Singh	M.Tech. Microelectronics 2nd year Roll No. 2300521195005	Student Representative

(Prof. Subodh Wairya)
Chairman BOS &
Head, ECD
Head
Electronics & Comm. Engg. Dept
I.E.T., Lucknow



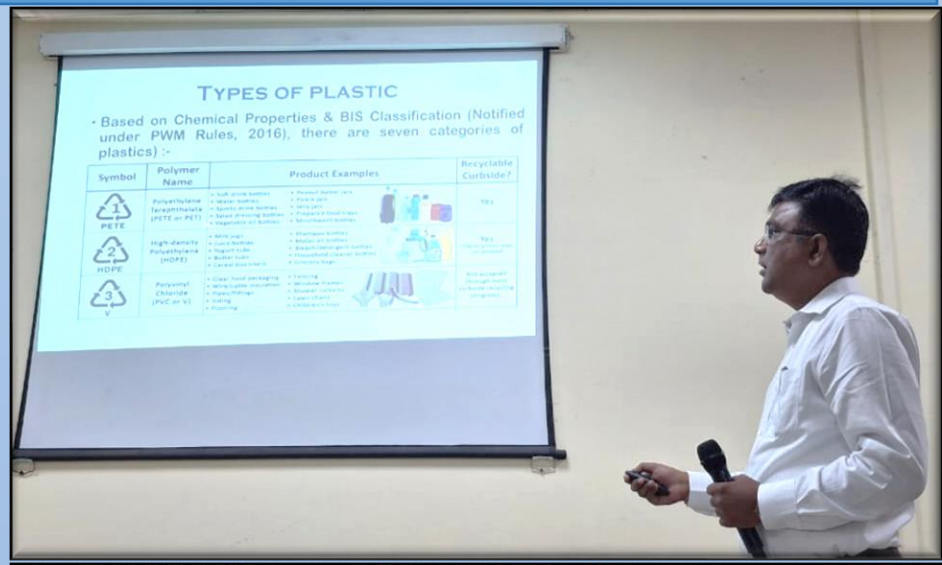
Criteria 7- Institutional Values and Best Practices

World Environment Day Celebration with Plantation

World Environment Day 2025 Celebration at IET Lucknow

On the occasion of *World Environment Day 2025*, the IEEE Student Branch STB62961 and IETE Lucknow Centre jointly organized an awareness event at the Institute of Engineering and Technology (IET), Lucknow. The theme for this year is *"End Plastic Pollution"*, emphasizing global action to combat one of the most pressing environmental challenges.

The event was inaugurated by Prof. Vineet Kansal, Director, IET Lucknow, who stressed the importance of institutional efforts in environmental conservation. Prof. Subodh Wairya, Head of the ECE Department, highlighted how technology and sustainable innovation can be merged for eco-friendly outcomes. Prof. Neelam Srivastava, IETE Vice Chair and IEEE Branch Counselor, and Dr. Arun Kumar Singh, Chairman, IETE Lucknow Centre, shared their views on interdisciplinary collaboration to address environmental degradation.



Criteria 7- Institutional Values and Best Practices

ALL INDIA SEMINAR ON "GREEN RENEWABLE ELECTRONICS FOR ENVIRONMENTAL NURTURING AND SUSTAINABILITY" (GREENS)

Date: 04–05 February, 2025

Venue: IET, Lucknow,
Organized by: - The Institution of Engineers (India), UP State Centre, Institute of Engineering & Technology, Lucknow

Theme:

Think Green, Act Clean, Go Tech-Green!

Objectives:

- Promote sustainable practices in electronics
- Highlight green energy integration and eco-friendly materials
- Explore AI, IoT, smart cities, and e-waste management
- Encourage collaboration across academia, industry, and policy

Acknowledgment:

Prof. Neelam Srivastava (Convener), Prof. Subodh Wairya (Co- Convener) and organizing teams for making the event a grand success.

Criteria 7- Institutional Values and Best Practices

ALL INDIA SEMINAR ON "GREEN RENEWABLE ELECTRONICS FOR ENVIRONMENTAL NURTURING AND SUSTAINABILITY" (GREENS)

Criteria 7- Institutional Values and Best Practices

Jointly organised by Electronics and Electrical Department “Industrial Energy Efficiency and Decarbonization using Virtual Reality based Digi-twin Training”

GreenTree
Define . Design . Deliver

**Bureau of Energy Efficiency (BEE),
German Development Cooperation (GIZ)
and UPNEDA MSME-EMC Cell**

Organizes

**One Day Training Programme On
"Industrial Energy Efficiency And Decarbonization
Using Virtual Reality
Based Digi-twin Training Simulator"**

In association with

**Institute of Engineering & Technology, Lucknow
and
National Productivity Council &
Green Tree Building Energy Pvt Ltd**

Topics Covered

Combustion System & Reheating Furnace
Compressed Air System
Induction Motor And Drives
Compressed Air System
Fans, Blowers And
Pumping System

28 JANUARY, 2025

Electrical Engineering Department and
Electronics & Communication Engineering Department

upsda.rkn@gmail.com | upneda.emc@greentree.global

VENUE
Seminar Hall, Room No. EE-303, Electrical Engg. Dept, I.E.T., Lko.

VISIT OUR WEBSITE
ietlucknow.ac.in

MORE INFORMATION CALL US
9450815956, 9452397733, 9450178188

'ग्रीन हाइड्रोजन तकनीकों को अपनाएं विद्यार्थी'

जासं ■ लखनऊ: इंस्टीट्यूट आफ इंजीनियरिंग एंड टेक्नोलाजी (आइइटी) के इलेक्ट्रिकल और इलेक्ट्रानिक्स विभाग में मंगलवार को ट्रेनिंग प्रोग्राम का आयोजन किया गया। यह कार्यक्रम 'इंडस्ट्रियल एनर्जी एफिशिएंसी एंड डेकार्बोनाइजेशन यूजिंग वर्चुअल रियलिटी बेस्ड डिजि–ट्विन ट्रेनिंग सिम्युलेटर' विषय पर आधारित था। इसमें वर्चुअल रियलिटी तकनीक की मदद से ऊर्जा दक्षता बढ़ाने और कार्बन उत्सर्जन को कम करने के तरीके बताए गए।

संस्थान के निदेशक प्रो. विनीत कंसल ने ग्रीन हाइड्रोजन जैसी तकनीकों को अपनाने और ग्रीन एनर्जी के नए स्रोत खोजने के लिए विद्यार्थियों को प्रेरित किया। प्रो. नीलम श्रीवास्तव ने ग्रीन रिन्यूएबल इलेक्ट्रानिक्स के महत्व पर विस्तार से चर्चा की। यूपी नेडा के गिरीश कुमार ने विद्यार्थियों को रिन्यूएबल और ग्रीन एनर्जी के बीच अंतर समझाते हुए ऊर्जा दक्षता बढ़ाने के लिए यूपी नेडा के प्रयासों की जानकारी दी। नेशनल प्रोडक्टिविटी काउंसिल के डायरेक्टर एम ज्वेल फ्रैंकलिन और एम नटराजन ने वर्चुअल रियलिटी उपकरणों का प्रत्यक्ष प्रदर्शन कर विद्यार्थियों को इंडस्ट्रियल उपकरणों के उपयोग के बारे में बताया। इलेक्ट्रिकल इंजीनियरिंग विभाग के अध्यक्ष प्रो. अनुराग त्रिपाठी ने यूपी नेडा, नेशनल प्रोडक्टिविटी काउंसिल और ग्रीन ट्री बिल्डिंग एनर्जी प्राइवेट लिमिटेड का आभार जताया।

इंस्टीट्यूट आफ इंजीनियरिंग एंड टेक्नोलाजी के इलेक्ट्रिकल और इलेक्ट्रानिक्स विभाग में ट्रेनिंग प्रोग्राम को संबोधित करते निदेशक प्रो. विनीत कंसल ... जागरण

Criteria 7- Institutional Values and Best Practices

NATIONAL SCIENCE DAY

EC Department through IEEE Student branch STB62961 is organizing an awareness activity regarding science day for the underprivileged children being taught by Parmarth Team of the Institute . The event will foresee a science day quiz for the children. As a part of the humanitarian activity the students will be provided with a participation certificate and an educational kit for the students to promote education among them.

Summary and Way Forward

Department Strength

- Strong and Vibrant Faculty
- Active Involvement of Students in various extra curricular activities and innovation
- Consistent Curriculum upgradation after consulting Experts from Industries, Premier Institutions & Exit Student Feedback
- Strong Well-Established Alumni
- Mandate Internships

Vision 2030 Goals

- Strengthening Industry Relationship with Students
- Improve Placements
- Improve Teaching – Learning Process
- Induce Research Oriented Skills to Students
- Modernization Toward Research Based Laboratories
- Research and Innovation Development
- Professional Development

Thank You