Dr. Ambedkar Institute of Technology for Divyangjan, Kanpur

Department of Electronics Engineering

Professor Rachna Asthana

Head of Department

HOD's Desk

Department of Electronics Engineering was started in the year of 2004. The department is especially designed for Divyangjans .Through this journey of 21 years, the state-of-the-art infrastructure is developed with all facilities like e-class rooms and laboratories with latest equipment, hardware and software. The department is having experienced senior faculty. We ensure overall development of our students by organizing academic initiatives in the department for research, innovations, skills enhancement and interdisciplinary interactions. Outcome based learning is implemented in teaching learning process. There is also a center of excellence in the department of electronics engineering established with the support of **Texas instruments**.

Vision

To prepare competent Electronics Engineering who can effectively contribute towards building harmonious society by providing environment friendly technological solutions .

Mission

M1: To provide state of the art technical education to the students.

M2: To groom students with leadership, transparency, accountability and professional ethics.

M3: To upgrade the faculty and supporting staff to enhance their knowledge through relevant pedagogical activities.

M4: To develop labs to impart state of the art practical knowledge to students.

M5: To provide inclusive education environment for students to make them proficient for higher education and industry.

Program Educational Objective

PEO1 : To provide students the basic concepts of engineering and applied sciences to have successful carrier in academia, industries associated with electronics engineering or successful entrepreneurs with human values.

PEO2 : To prepare students with necessary technical skills to critically analyze and find the economically feasible and environment friendly solutions of real life technical problems.

PEO3 : To develop skills of management, communications and team work to serve the society as competent and responsible citizens.

Program Outcomes

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

PSO1 : Students will be able to design, analyze and to provide solution to real life engineering problems by obtaining knowledge of electronics engineering course.

PSO2 : Students should be able to establish skill to apply advanced software and hardware in real life engineering problems.

GATE TALK

The department organized two offline sessions focused on GATE preparation and career guidance, covering roadmaps, tips, and tricks. Conducted by experienced alumni, these interactive sessions provided practical insights, strategies, and motivation to help students prepare effectively and explore suitable career paths with clarity and confidence.

- **Session 1:Mr. Suneel Kumar (EX-IES)**
  Mr. Sanjay Chaudhary (Research Scholar IITK, MTech IITK)
- **Session 2:Mr. Shubham Srivastava (Research Scholar, IITK)**

INDUSTRIAL VISIT

The department organized an industrial visit focused on practical learning and career insights, offering students valuable roadmaps, tips, and hands-on experiences.

Shiksha Sopan Kalyanpur

UPMRC Kanpur

EXPERT LECTURE

The department organized an expert lecture on Analog CMOS Amplifiers by **Prof. Rajni Bisht** from HBTU. The session covered key concepts in analog electronics and VLSI design, offering students valuable insights into circuit fundamentals and practical applications.

PATENT

The department has organized one session on the guidance related to startup intellectual property rights and startup ecosystem by **Mrs. Pooja** (Registered Patent Agent Govt. of India)

POSTER PULSE

Silicon Minds organized "Pulse," an event where students designed creative posters showcasing various electronic components, enhancing their technical knowledge.

TECH TRIVIA

Silicon Minds organized Tech Trivia, a competitive quiz event testing students' knowledge of technology, electronics, and innovation, promoting learning through excitement.

ALUMNI THOUGHT

Reflecting on my journey at AITD as an Electronics Engineering student, I've realized it's not just about mastering circuits or systems—it's about building character. Embrace the labs, respect your mentors, collaborate with peers, and never shy away from challenges. Every sleepless night and every chai break adds value. Make the most of every opportunity—academic or otherwise. These years shape not just your resume, but your resilience and relationships for life.

Sudhanshu Bajpai,
Embedded Hardware Design Engineer
Hoover, USA
2007-2011 Electronics Engineering

STUDENT'S ACHIEVMENTS

Internship:

- BSNL
- BEL
- SORIAN GADGET
- EMSEC PVT.LTD.
- HAL
- NPTEL VLSI RTL TO GDS

TOPPER

Princee pandey	2001660300043
Utkarsh Sachan.	2001660300061
Priyanshu Singh.	2101660300041
Princy Kushwaha.	2101660300038
Harshit Senger.	2201660300025
Jyoti Patel.	2201660300029
Shivam Sharma.	2301660300061
Prachi Sharma.	2301660300041

STUDENT'S ACHIEVMENTS :

GATE QUALIFICATION :

COMPANIES VISITED:

1. Growupp
2. TCS Digital
3. Pie Infocomm
4. Accenture
5. ORC Engineering Pvt. Ltd.
6. Step2gen Technologies
7. EMSEC Pvt. Ltd.
8. Ericssion

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