

Department of Electronics and Communication Engineering

SESSION: 2024-25

Industrial (Exhibition) Visit

(Activity of ECE Department)

The Electronics and Communication Engineering (ECE) department organized a visit to the 11 National Level Exhibition and Project Competition at Pragati Nagar, providing an exceptional opportunity for approximately 70 students to explore the latest technological advancements. The event aimed to broaden the students' horizons and inspire them to embrace innovation.

Industrial exhibition and project competition event is a doorway for aspirants to achieve their professional goals by allowing them to obtain in-depth understanding of their theoretical curriculum while also allowing them to watch and gain personal experience of the exhibition.

Students learned about:

- Innovative projects and emerging technologies
- Interacted with fellow students and professionals from across the country
- Developed insights into the practical applications of theoretical concepts

1. Learning Outcomes:

- Importance of innovation and creativity in driving technological advancements
- Need for collaboration and knowledge-sharing in the scientific community
- Inspiration to pursue projects and research in emerging areas
- Students Engage the imagination to explore new possibilities.
- Formulate and articulate ideas
- Recognize explicit and tacit assumptions and their consequences..
- They learn to improve their communication skills
- Students will be able to apply theories you've learnt to real-life scenarios.



The Department of ECE organized an industrial visit on 20th September, 2024 at 09:00 AM. The students have visited in “UNCODEMY” Udhyog Marg, Sector 1, Noida. This activity was organized by Mr. Prashant Mavi. Industrial Training is a doorway for aspirants to achieve their professional goals by allowing them to obtain in-depth understanding of their theoretical curriculum while also allowing them to watch and gain personal experience of the industry, job execution, and work environment.

Uncodemy offers comprehensive training programs coupled with excellent placement assistance, making it one of the popular institutes for individuals seeking to enter the tech industry. The courses are meticulously designed, covering a wide range of in-demand skills and technologies, ensuring students are best-equipped for the job market. The instructors are highly knowledgeable and experienced, providing hands-on learning experiences that foster skill mastery. Moreover, Uncodemy's strong industry connections and career support services facilitate seamless transitions into rewarding job opportunities. Overall, Uncodemy stands out as an exceptional institution for training and placement in the tech sector.

Students learned about:

1. Learning Outcomes:

- Students Engage the imagination to explore new possibilities. Formulate and articulate ideas. Recognize explicit and tacit assumptions and their consequences.
- Students performed better in their overall academic performance as well as for the courses that are closely relevant to their assignments during the internship program.
- Students witnessed coding domain developments in today's industry market needs and gained valuable insights.
- The team shared their experiences, challenges, and success stories, providing us with a comprehensive understanding of the industry.
- Students had the opportunity to ask questions and engage in discussions with the experts. Students will be able to apply theories you've learnt to real-life scenarios.



Department of Electronics & Communication has organized Electronics Puzzle competition event organized on 26-09-2024. Total teams who participated in this event were 9 (18 members). The event consisted of three rounds. Round 1 was a visual round in which students had to identify the circuit from the figure presented before them. In round 2 students had to reply to the questions asked using pen and paper in which 10 questions were given to student related to basic electronics domain. Time duration for this was 10 minutes. In this round 6 team participated. Round 3 was puzzle round, in this 10 puzzle question were given to students and time duration was 15 minutes to solve. In this round three teams participated. At the end of the event two teams were judged as winner and runner-up.

1. Learning Outcomes:

2. Enhanced Problem-Solving Skills: Participants develop strategies for tackling complex problems, improving their ability to analyze and approach challenges systematically.
3. Improved Critical Thinking: Engaging with various puzzles fosters deeper analytical skills, enabling participants to evaluate situations and make informed decisions.
4. Teamwork and Collaboration: Participants learn how to work effectively in teams, leveraging diverse perspectives and skills to achieve common goals.
5. Increased Creativity: Solving puzzles encourages innovative thinking, helping participants learn to think outside the box and approach problems from different angles.
6. Time Management: Competitors practice managing their time effectively under pressure, learning how to prioritize tasks and allocate resources wisely.





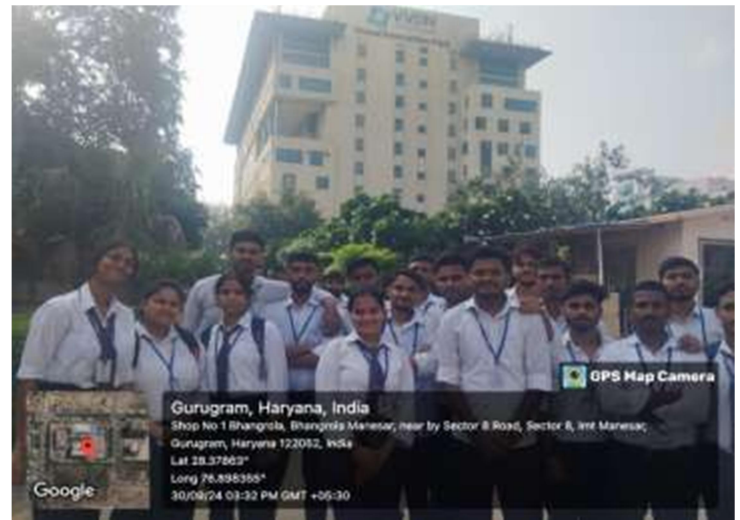
1. Brief Write up on the Program/Event :

The Department of ECE organized an industrial visit on 30th September, 2024 at 09:30 AM. The students have visited to “VVDN Technologies” GIP. Plot No: CP-07, Sector-8, IMT Manesar, **Gurugram**, Haryana - 122050. This activity was organized by Mr. Prashant Mavi. Industrial Training is a doorway for aspirants to achieve their professional goals by allowing them to obtain in-depth understanding of their theoretical curriculum while also allowing them to watch and gain personal experience of the industry, job execution, and work environment.

VVDN Technologies is a global provider of software, product engineering, electronics manufacturing services and solutions. With 11 R&D centers (Manesar, Gurugram, Noida, Ahmedabad, Bangalore, Pune, Chennai, Kochi, Pollachi, Bhubaneswar, Vietnam), 7 manufacturing facilities (6 in Manesar, 1 in Pollachi) and 6 global offices (US, Canada, Japan, Vietnam, Korea, Europe). VVDN offers a unique value proposition by being a one-stop-shop for our customers by offering complete hardware development, software development, cloud & apps, mechanical design, testing, automation, pre-compliance, and manufacturing services. VVDN's India HQ is Global Innovation Park at Manesar, Gurugram, India and its North America HQ is located in Fremont, CA, USA. VVDN help customers steer their next-generation solutions in the space of 5G, Data Center, Networking & Wi-Fi, Internet of Things, Vision, Automotive, and Cloud & Apps.

2. Learning Outcomes:

- Students Engage the imagination to explore new possibilities. Formulate and articulate ideas. Recognize explicit and tacit assumptions and their consequences.
- Students performed better in their overall academic performance as well as for the courses that are closely relevant to their assignments during the internship program.
- Students witnessed coding domain developments in today's industry market needs and gained valuable insights.
- The team shared their experiences, challenges, and success stories, providing us with a comprehensive understanding of the industry.
- Students had the opportunity to ask questions and engage in discussions with the experts. Students will be able to apply theories you've learnt to real-life scenarios.



The Department of ECE organized an industrial visit on 01st October, 2024 at 09:15 AM. The students have visited to “CSIR-National Physical Laboratory” Dr. K. S. Krishnan Marg New Delhi – 110012. This activity was organized by Mr. Prashant Mavi. Industrial Training is a doorway for aspirants to achieve their professional goals by allowing them to obtain in-depth understanding of their theoretical curriculum while also allowing them to watch and gain personal experience of the industry, job execution, and work environment.

The National Physical Laboratory (NPL) was conceptualized in 1943 by the Governing Body of Council of Scientific and Industrial Research (CSIR). The premier laboratory is mandated to be India's "National Measurement Institute" (NMI) by act of Parliament and is the custodian of "National Standards" with a responsibility of the dissemination of measurements to the needs of country. CSIR-NPL maintains the Indian Standard Time (IST).

Learning Outcomes:

- Students Engage the imagination to explore new possibilities. Formulate and articulate ideas. Recognize explicit and tacit assumptions and their consequences.
- Students performed better in their overall academic performance as well as for the courses that are closely relevant to their assignments during the internship program.
- Students witnessed coding domain developments in today's industry market needs and gained valuable insights.
- The team shared their experiences, challenges, and success stories, providing us with a comprehensive understanding of the industry.
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Department of Electronics & Communication has organized “Codex-Coding Competition” event on 07-10-2024. Total participants who registered for the competition and participated in this event were 28. The event consisted of five questions of coding in Python. The questions comprised of mixed difficulty level so that all participants may try to find a solutions through coding. Judges observed very minutely the codes written by all participants against the questions delivered to them. Based on the answers written by all participants, Judges announced first and second winner in this competition event. Time duration for the event was 90 minutes

1. Learning Outcomes:

1. Enhanced Problem-Solving Skills: Participants develop strategies for tackling complex problems, improving their ability to analyze and approach challenges systematically.
2. Improved Critical Thinking: Engaging with various coding challenges fosters deeper analytical skills, enabling participants to evaluate situations and make informed decisions.
3. Teamwork and Collaboration: Participants learn how to work effectively in teams, leveraging diverse perspectives and skills to achieve common goals.
4. Increased Creativity: Finding solutions to technical coding questions encourages innovative thinking, helping participants learn to think outside the box and approach problems from different angles.
5. Time Management: Competitors practice managing their time effectively under pressure, learning how to prioritize tasks and allocate resources wisely.
6. Resilience and Perseverance: Facing challenges teaches participants to cope with frustration and setbacks, fostering a growth mindset and determination.
7. Communication Skills: Collaborative problem-solving enhances verbal and non-verbal communication skills as participants share ideas and strategies.
8. Attention to Detail: Coding often require meticulous attention to detail, helping participants improve their ability to find novel and speedy solutions.
9. Emotional Regulation: Competing in a timed environment helps participants develop skills to manage stress and maintain focus under pressure.

Winners:

- 1st place: Ashish Kumar ECE 2nd Year
- 2nd place: Aayush Vikram ECE 2nd Year



The Department of ECE organized a workshop under Innovation Club “ELECTTRO INFINITY” : Workshop on IoT using Raspberry Pi, on 09th October 2024 at 02:00 PM onwards. This activity was organized by Ms. Sheetal Nagar. Mr. Dharmendra Yadav (IoT Engineer), CETPA Infotech Pvt. Ltd. Noida, have delivered talk and presentations on the topic of the workshop. Many people have ideas, but only a few know how to implement or transform their concept into a viable venture. As a result, this blog post will assist you in this respect, outlining the criteria for being classified as a Innovator and a Critical Thinker.

3. Learning Outcomes:

4. Familiar with Arduino Raspberry Pi environment and its IoT applications

Able to understand Raspberry Pi programming environment.

5. Able to Design Smart systems applications and innovative project ideas.

6. Learn and understand about any new IDE, compiler, and MCU chip in compatible boards or similar types.



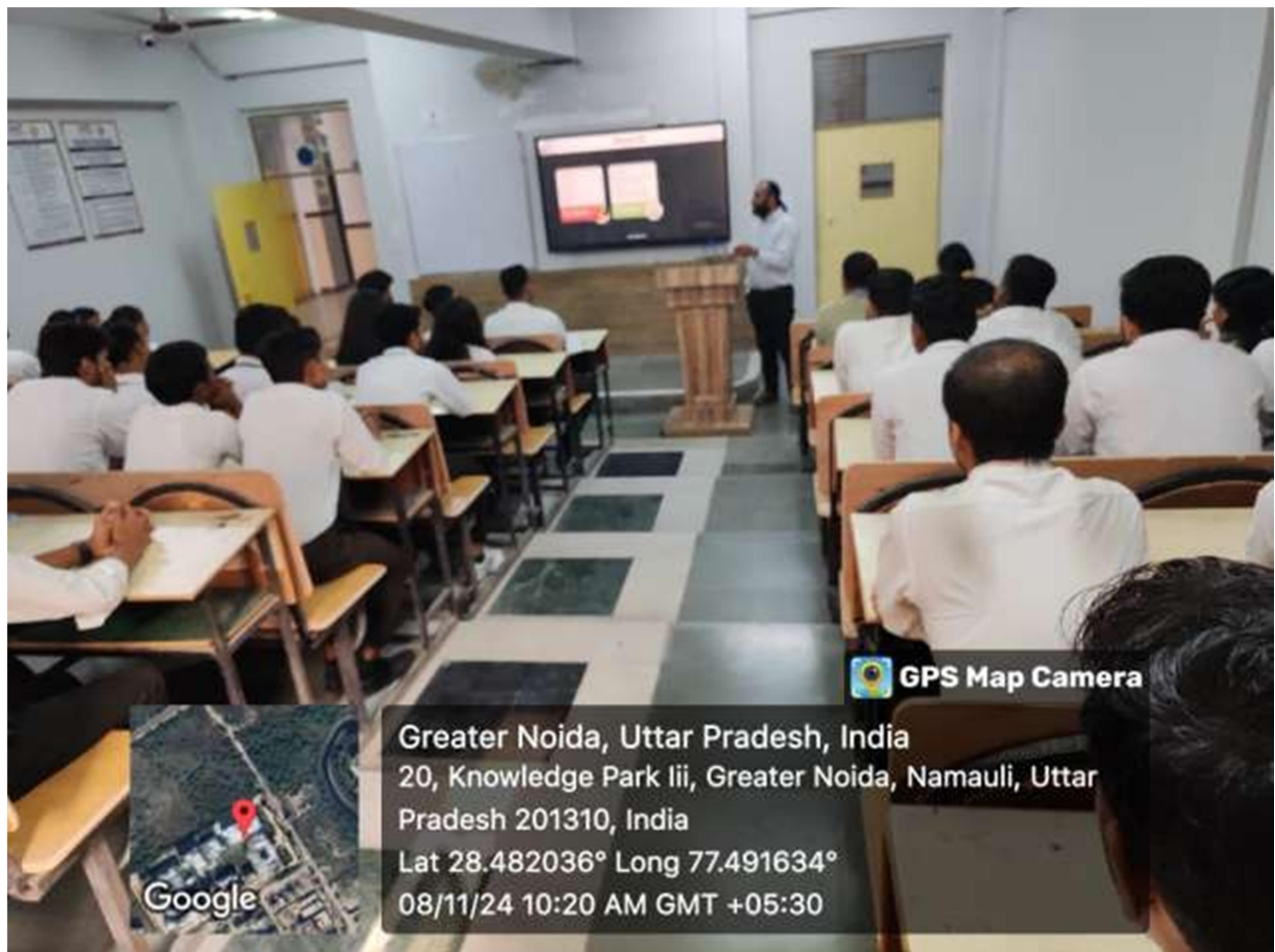


The Department of ECE organized a guest lecture on the topic of “Semiconductor Industry Career Opportunities & Challenges” on 08th November 2024 at 11:00 AM onwards. The guest speaker was Mr. Puneet Mittal (Founder & CEO VLSI Expert Pvt. Ltd.). This activity was organized by Mr. Basanta Mahato. Entrepreneurship and Innovation program combines theoretical and empirical perspectives with the development of practical skills and opportunities for the application of knowledge to real-life organizational issues faced by those establishing and managing innovation-driven organizations.

1. Learning Outcomes:

- Key concepts underpinning entrepreneurship and its application in the recognition and exploitation of product/ service/ process opportunities in the area of VLSI
- Key concepts underpinning innovation and the issues associated with developing and sustaining innovation within organizations working in the area of semiconductor development
- How to design creative strategies for pursuing, exploiting and further developing new opportunities in VLSI
- Issues associated with securing and managing financial resources in new and established organizations in the area of semiconductor technology





Institution's Innovation Council (IIMT-IIC) & Department of Electronics & Communication Engineering, has jointly organized Inter/Intra Institutional Idea Competition: IDEATHON on 21 November 2024, 10 am onwards in B-304 (Block-B)

Many people have ideas, but only a few know how to implement or transform their concept into a viable venture. As a result, this blog post will assist you in this respect, outlining the criteria for being classified as a Innovator and a Critical Thinker.

1. Learning Outcomes:

Entrepreneurship and Innovation minors will be able to sell themselves and their ideas. Students master oral and visual presentation skills and establish a foundation of confidence in the skills necessary to cause others to act.

Entrepreneurship and Innovation minors will be able to find problems worth solving. Students advance their skills in customer development, customer validation, competitive analysis, and iteration while utilizing design thinking and process tools to evaluate in real-world problems and projects.

Entrepreneurship and Innovation minors will be able to mobilize people and resources. Students identify and secure customers, stakeholders, and team members through networks, primary customer research, and competitive and industry analyses in order to prioritize and pursue an initial target market in real-world projects.

Entrepreneurship and Innovation minors will be able to create value. Students are able to create presentations and business plans that articulate and apply financial, operational, organizational, market, and sales knowledge to identify paths to value creation through 1) company formation (for-profit); 2) social innovation (nonprofit); or 3) intellectual property licensing.

Entrepreneurship and Innovation minors will develop and cultivate endurance. Students increase their awareness and deliberately practice the skills and disciplines necessary to increase confidence and agency; foster self-efficacy and self-advocacy; improve communication and problem-solving skills, manage strong impulses and feelings; and identify personal purpose.

Winner: Mr. Aditya Shashank (B.Tech CS)

1st Runner-up: Mr. Anmol Tiwari (BCA)

2nd Runner-up: Ms. Reema, Ms. Manvi, Ms. Muskan (BBA)

