



NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY



SAMPRESHAN

THE NEWSLETTER

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DEPARTMENT of ELECTRONICS AND COMMUNICATION ENGINEERING



39th Rank in Pharmacy
145th Rank in Engineering



CSE|ECE|ME|BT
IT|B.PHARM|MBA|MCA



ACCREDITED AS
"GRADE A" 3.23



AWARDED WITH "DIAMOND"
BY QS I GAUGE
(Engineering & Pharmacy)





Dr. Pavan Kumar Shukla
Head of Department

The Department seeks to combine excellence in education with service to the industry. Department vision is to be recognized as Innovative and inspiring our students to go forth boldly into the world. Our goal is to provide students with a balance of intellectual and practical experiences that enable them to serve a variety of societal needs. The students of ECE department are nurtured to become best software, Hardware professionals in Industry or become Entrepreneurs in their own innovative way. I am sure in times to come many students from our department will make indelible mark nationally and internationally in the field of Electronics and Communication and make us proud. We are having hard-working students, young and dynamic faculties, whose expertise spans the range of emerging technology in the ECE. We hold firm belief in our ability to succeed, and we nurture an attitude of self-reliance, confidence, commitment, and responsibility to catch the vision of NIET Management.

I am confident that the students of the department would justify the credibility of the department by showing a high level of professional competence in their respective field.

Education at Electronics and Communication Department is a gateway to solve the challenges of the future. We look to develop our knowledge acquiring learners and prepare them for a huge range of opportunities ahead from academia to scientific Industry. With the demands on resources becoming ever more challenging we need to produce passionate young students who will go on and shape the scientific landscape of the world both near and far. Our laboratories facilities enable them to flourish, cultured and most importantly for excellent practical work to be carried out. Experimental work is essential for academic progress including planning, dexterity, observation and powers of analysis and evaluation.

The ECE Department is committed to provide an exciting, varied, and challenging experience of science for all students.



Message from Deputy HoD
Dr. Shilpee Patil

Message from the Editorial Team



Dr. Garima Shukla
Editor-in-Chief



Ms. Akanksha
Faculty Coordinator



Ms. Kanika
Faculty Coordinator



Mr. Pradumn Kumar Gupta
Faculty Coordinator

It gives us great pleasure and satisfaction to present the department's newsletter to our readers. We are grateful for the trust placed in us to carry out the duties by the editor of the Department's Newsletter editors.

We have made sincere efforts with our determination and perseverance, to present a thorough and multifaceted picture of the ECE department's remarkable accomplishments. We certainly aim at living up to our readers' expectations through subsequent editions of SAMPRESHAN, (Vol 1, ISSUE 3, July-Sept. 2022). An enormous amount of hard work has been devoted to improving this edition of the newsletter as we believe in continuous improvement. It will be reflected

Vision

To prepare the students for global competence, with core knowledge in Electronics and Communication Engineering having focus on research to meet the needs of Industry and Society.

Mission

To become a dynamic and vigorous knowledge hub with an exposure to state-of-art technologies for connecting the world.

To provide in-depth knowledge of Electronics and Communication Engineering ensuring the effective teaching-learning process.

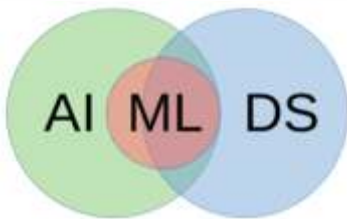
To train students to take up innovative projects in groups with sustainable and inclusive technology relevant to the industry and social needs.

To empower students to become skilled and ethical entrepreneurs.

To promote and adapt professional development in a perpetually demanding environment and nurture the best minds for the future.



Implementation of New National Education Policy from 2022-2023



AI-ML/DS/
IOT Course



Syllabus
co-created by
Industry/ Academia



Hardware and
Software Focus



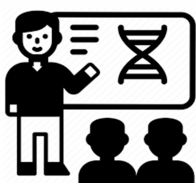
Cutting edge
industry toolkit/
Framework



70:30
Practical: Theory



Application
Oriented



Lab in
class

Tech Fiesta, 7 July 2022



TECH FIESTA GURUGRAM 2022 - HIGH LEVEL AGENDA

Physical Experience Showcase 9:00 am – 14:30 hrs



Capgemini India's marquee technology event Tech Fiesta 2022, a platform to showcase breakthrough technologies, ideas & innovation. The event was scheduled from June 09 to July 20 across six Capgemini locations across India. Noida institute of engineering and technology professors from various departments participated in tech fiesta. The event showed great enthusiasm of our professors. Tech Fiesta 2022 showcased the unprecedented and unmatched momentum our solutions have brought in. It manifested as a conversational opportunity for each stakeholder to establish their new growth paths & emerging journeys.

Designed to promote innovation, agility, and excellence across industries, the event aimed to share our cutting-edge technology, experiential solutions, partner relationships and unique capabilities.



Staff Development Program on Multi-dimensional Skill Development For The Lab, 13-18 July 2022

Department of Electronics and Communication Engineering organized Staff Development Program (SDP) on Multi-Dimensional Skill Development for the Lab Technicians to acquire the knowledge of hardware and software tools for monitoring the processes to be followed for the technological development from 13 to 18 July 2022. In this SDP, All the Lab Technicians of the department participated. Venue of program was 317B (CAD Lab). The objective of the

SDP was to get familiar with Microsoft word (MS Word) and Microsoft Excel training and respective curriculum labs for Practical Practice Session. Training started with the Fundamental of Computer, Basics of MS word on 13/07/2022; then Basics of MS excels on 14/07/2022; and practice session over MS word and excel on 15/07/2022. On 16/07/2022 and 18/07/2022 lab practice sessions were conducted by respective lab coordinators. Dr. Pavan Kumar Shukla, HoD, ECE, NIET inaugurated the event and described the objectives of this SDP. The program was started in the presence of Dr. V. K. Pandey, Professor and academic coordinator, ECE and convener of SDP were Dr. Anshuman Singh, Dr. Prasanna Kumar Singh, Dr. Dhananjay Singh, Mrs. Kanika Jindal, Mrs. Sarabjeet Kaur, Mr. Saurabh Katiyar, Mrs. Swarnima and Mr. Pradumn Kumar Gupta.



Orientation programme of B.Tech 3rd year students, 04 August 2022

As a part of the Academic Activity of the Department, An Orientation program was organized on 04th August, 2022 for the fifth semester students of the Department of Electronics and communication. The Orientation program was held in different sessions like CO, PO, examination pattern, training and placement facilities, MOOCs, Coursera and extracurricular activities in which Faculty members deliberated words of advice/suggestions to the third students of ECE. It has been discussed how it will help students to bridge the gap between the industry and institute.

- The course outcomes (CO) and program outcomes (PO) of B.Tech in Electronics and Communication Engineering has been discussed by Professor V. K. Pandey in details. Outcome based education, which is contrast to conventional education method has also been explained in details.
- Course examination pattern and policies has been discussed by Mr. Ranjan Kumar.
- Training and placement facilities for students has been discussed by Mr. Anshu Kumar.
- The advantages of MOOCs and Coursera (online learning platform) programmes has been discussed by Mr. Ravi Pandey.
- An extracurricular activities and departmental club facilities has been explained by Ms. Kanika Jindal.



Smart India Hackathon Junior-2022, 12 August 2022



Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. This year SIH-2022 moves to its next level and welcomes the participation from schools (6th to 12th Class students) to contribute in the nation building initiative.

Noida institute of Engineering and Technology, Greater Noida has organized SIH Junior 2022 on 12th August 2022. School students from 6th to 12th class has showcased their talent. 28 team has participated and 5 teams emerged winner.

Dr. Pavan Kumar Shukla (Hod, ECE), Dr. V. K. Pandey (Academic coordinator, ECE) and Dr. Prasanna Kumar Singh (AP, ECE) was the members of esteemed Jury panel. Mr. Anshu Kumar (AP, ECE) was one of the faculty coordinator of this event.

School students from 6th to 12th class showcased their talent and tried to provide solution of day to day problem.



Orientation programme of B.Tech 2nd year students, 22 August 2022

Mentoring is a particular form of relationship designed to provide personal and professional support to an individual. The mentor is more experienced than the mentee and makes use of that experience in a facilitative way to support the development of the mentee. Orientation program was organized on 22 August, 2022 for second year students of the Department of Electronics and communication. The Orientation program was held in different sessions like CO, PO, examination pattern, training and placement facilities, MOOCs, Coursera and extracurricular activities.

Event Objective:

- To bridge the gap between students & faculties.
- To aware the students about the college culture and inform the students about the code of conduct.
- To prepare the students about their career goal & how to work on it.
- To involve and learn about the career development process and develop their skills.
- To create awareness among about the various co-curricular and extra activities helps the student for their overall development.
- To create awareness among students about the professional etiquettes.

To promote the students for enhancing their skills & learn about the various professional things related to placement , this event has been incorporated in their schedule.



Inauguration of 5G wireless and technology lab on 24th August 2022

The department of Electronics and Communication Engineering inaugurated 5G wireless and technology lab on 24th August 2022. The 5G-Lab main objective is to conduct advanced field trials of innovative and thematically diverse digital services that require 5G capabilities and performance in the vertical domains of Factories of the Future, Smart Energy, Smart Cities, Smart Ports and Media & Entertainment, directly engaging with end-user actors, so as to validate the technological performance of 5G technology in successfully serving them, as well as validate the business models and potential of these use cases prior to commercial deployment.

5G has started evolving across the globe, yet we are just at the beginning of this extraordinary innovation which will hugely impact our future to come. However, the very first question that comes is what 5G is, what it means in the present world, and how this transformative technology will make our future look like.

Number of students Participants were approximately 200. Number of Faculty Participants were approximately 40. Resource Persons:

- 1.Mr. Alok Wadhera, Vice President, SFS Group, Capgemini.
- 2.Ms. R. Ezapavahi, Vice President, SFS Group, Capgemini.
- 3.Mr. Praveen Goel, Senior Director, SFS Group, Capgemini.
- 4.Mr. Pankaj Negi, Director-engineering, Capgemini.



- 5.Mr. Mandeep Mehta, Director-engineering, Capgemini.
- 6.Mr. Sachin Bhojpuria, Director-Technical, Capgemini
- 7.Mr. Vikram Malik, Engineering Manager Capgemini.
- 8.Mr. Sunder Thakur, Technical Manager, Capgemini



Smart India Hackathon 2022

Grand Finale

(Organized by Ministry of Education's Innovation Cell)

25th and 26th August 2022

Noida Institute of Engineering and Technology, Greater Noida, Nodal center was responsible for conducting grand finale, Smart India Hackathon (SIH)2022 for 2 days of 28 allocated teams. NIET organizing team was formulated to conduct the event smoothly under guidance of assigned, Mr. Praful Nikam, MIC SPOC, Smart India Hackathon-2022 Smart India Hackathon, a unique initiative to identify new and disruptive digital technology innovations for solving the challenges faced by our country. In order to work towards our Hon'ble Prime Minister, Shri [Narendra Modi](#)'s vision for Digital India and promote digital literacy, MHRD, AICTE, i4C (Institutional Inclusive Innovation Center), Persistent Systems and MHRD Innovation Cell organizes Smart India Hackathon, the world's largest nation-building initiative to harness the innovative brilliance of the youth and develop digital products for solving some of the country's pressing problems

The grand finale SIH 2022 local inauguration ceremony was conducted at NIET NC on 25th August 2022 from 8:00 am to 8:45 am. The esteemed personalities present on the inauguration of the programme:

Dr. Sarojini Agarwal, Chairperson- NIET

Mr. Praful Nikam, MIC SPOC

Dr. Neema Agarwal, Hon'ble AMD NIET

Mr. Raman Batra, Hon'ble EVP NIET

Dr. Vinod M Kapse, Director NIET





On this occasion, Regional Officer of NRO-AICTE, Dr. Manoj Kumar Tiwari and AICTE-IIC member visited NIET college campus on 25th August 2022. The telecast of the Prime Minister's interaction with students was live on YouTube at the scheduled date and time for all to watch.

Winning Teams:

Idea id	Idea ID-Team Name	PS ID
26333	24392- S3MR2	SK792
16905	15421- Total Recon	SK794
16870	14300- Perfectenschlag	SK793
28644	25374- Immersive Brains	NC737
17149	18748- Road Techies	NC740
23753	20360- Hexquad GCET	NC741
26827	23974- GDEC MECHATRON	VA1264



Inaugural Function of Student Branch, IEEE At NIET, 2th Sept 2022

IEEE Student Branch of Noida Institute Of Engineering and Technology was inaugurated on 2nd September 2022. IEEE Student branch NIET was inaugurated by guest of honour Dr Deepak Mathur, director IEEE Region 10 (Asia -pacific) and former chief general Manager, ONGC. He also gave valuable guidelines for the students to carry out their research effectively. He gave guidance on how to approach and obtain funds from IEEE Societies which was an eye opener for the students. Apart from inauguration badges were given to all the office bearers of IEEE student branch NIET.



NOIDA INSTITUTE OF ENGINEERING
& TECHNOLOGY, GREATER NOIDA

Invitation

You are cordially invited to attend the



Inaugural Function
of
Student Branch, IEEE at NIET
on
2nd September 2022

In gracious presence of

Mr. Deepak Mathur,

Director IEEE Region 10 (Asia-Pacific) and
Former Chief General Manager, ONGC



📍 Auditorium, B-Block | 11:00 am Onwards



Teachers day on 05th September 2022

The objective of event was to motivate people to raise awareness about the role of teachers in playing quality education at all levels and to improve the situations of teachers in the country.

The Teacher's Day in India is celebrated every year on the 5th of September. It is a very auspicious event for which children wait eagerly throughout the year. Teacher's Day is dedicated to the teachers of the nation and also the world. Teacher's Day is like an opportunity for us to show our gratitude towards our teachers. On Teacher's Day, we can show our teachers how much we respect them and what place do they have in our lives. Students of ECE department also organized an event for the faculties of ECE department on 05th September 2022 in 512 B.



Blood Donation Camp, 9 September 2022



Noida Institute of Engineering and Technology, Greater Noida, has organized Blood Donation Camp with collaborative efforts of Government Institute of Medical Science (GIMS), Greater Noida. The objective of camp was to motivate people to donate blood and social works.

Total 185 donors reached the venue out of which more than 100 units of blood was collected. Doctors of GIMS, appreciated the enthusiasm of NIET Family and promised to arrange another Blood Donation camp in next 3 months. For a donor blood donation process took more than half an hour including the testing and filling consent form. After it, donors were given certificate, donor's card, fruits and frooti.



INDUSTRIAL VISIT, 9 SEPT. 2022

As per the present scenario, technology is advancing rapidly. New innovative ideas need to be cultivated to keep up with the emerging technological demands. Department of ECE has organized an Industrial visit on 09th September 2022, 39 students of ECE along with faculty members of NIET visited ALTTC Ghaziabad.

Faculty coordinators were: Mr. Anshu Kumar, Mr. Pradumn Kumar Gupta

The objective of the visit was:

To be especially aware and encourage the students of ECE 3rd year students to know the

- Mobile technologies: GSM, CDMA, 3G, 4G LTE, and LTE Advanced and Wi-Max.
- Modern Transmission Technologies: OFC, SDH, NG SDH, DWDM, GPON, and FTTH.
- Next Generation Networks: working of Digital Exchanges, soft Switch, and IMS.
- IT & Networking: IPV4, IPV6, LAN, VLAN, Router Configuration.
- VLSI with VHDL, Embedded systems, and Cyber security.

The visit was highly focused on encouraging the young students to learn the next generation mobile network technology and satellite earth station. The success stories of officer/trainer and the veteran expert certainly influence the young minds as they can co-relate the ideas to these young innovators and ignite the young brains to go ahead in shaping their own career with optimum growth and opportunities in the field of Telecommunication. The session was conducted by Md. Asad Ansari, Sub Divisional Engineer (CFA)- ALTTC Ghaziabad and Mr. Sandeep Singh, Sub Divisional Engineer (Mobile)- ALTTC Ghaziabad.



ALAP - Academic Leadership Alignment Programme

13-14th September 2022.

Research for Resurgence Foundation has developed a complete module for providing services to HEIs for implementation of NEP2020 by the name NIPS (NEP Implementation Pathway Services). One of the components of this is a two-day Anandshala (Blissinar) titled ALAP. First such Blissinar was organised with AICTE and Bharatiya Shikshan Mandal in the Prajnanam Auditorium of AICTE. 227 Academic leaders including VCs, Principals, Deans etc. from more than 80 HEIs from all over the country registered and attended the Blissinar on 13-14th September 2022. Dr. Vinod M Kapse, Director-NIET, Dr. Kumud Saxena, HoD, CSE & Dr. Pavan Kumar Shukla, HoD-ECE attend the event.

The academic leaders resolve:

1. To Take the responsibility of implementation of NEP irrespective of extraneous factors by concentrating on the area of influence and doubles at hand rather than waiting for guidelines or direction.
2. To redesign Curriculum to realize the vision of holistic and multidisciplinary learning. Curriculum designing process to start with defining learning objectives related to cognitive learning and skill development along with emotional and physical wellbeing followed by evaluation and assessment Matrix and pedagogical options before finalizing syllabus. Textbooks need to be based on context of the learner.



Engineer's Day , 15th September 2022

To be especially aware and encourage the students of ECE, EEE, and mechanical and other various disciplines about engineer's day, the department of ECE has organized an online quiz and webinar on 15th September 2022. 57 students participated in this event.

Dr. Ankush Ghosh, Co-founder, CTO Director planning at ADSRS Education and Research Foundation, encouraging young students and developing innovative and creative thinking in the field of Engineering. The success stories of young innovators and experts certainly influence young minds as they can co-relate the ideas to these young innovators and ignite the young brains to go ahead in shaping their own career with optimum growth and opportunities in the field of Engineering in Abroad. The event organized by Mrs. Kanika Jindal, Ms. Khushboo, Ms. Swarnima

