

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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(NEWSLETTER)



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ABOUT ECE

The Department of Electronics and Communication Engineering, under School of Engineering and Technology of I.T.S Engineering College was established in the year 2006 with an aim to produce globally competitive and socially sensitized engineering graduates along with a passion to bring out quality research in the frontier areas of Electronics and Communication Engineering.

The Department offers four years Bachelor of Technology (B.Tech.) programme (comprising eight semesters) in Electronics & Communication Engineering, affiliated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow (formerly UPTU) and has been accredited by NBA (National Board of Accreditation), New Delhi. The Department has established two centre of excellence named as e-Yantra (in collaboration with IIT Bombay) focuses on hands-on training in the field of Embedded Systems & Robotics.

The NI Innovation Centre focuses on the Virtual Instrumentation & Automation and is in collaboration with renowned MNC, National Instruments. The student activity club "Envision" and students technical society "(IEEE student Branch)" of the departments also includes ethical and professional skill development programs which includes workshop, webinar, technical quiz, technical rangoli, poster presentation etc. The NI Innovation Centre focuses on the Virtual Instrumentation & Automation and is in collaboration with renowned MNC, National Instruments. The student activity club "Envision" and students technical society "(IEEE student Branch)" of the departments also includes ethical and professional skill development programs which includes workshop, webinar, technical quiz, technical rangoli, poster presentation etc. that helps students to grow their overall personality along with technical skills.

From The Desk of H.O.D. (ECE Department)



Dr Monica Jain (H.O.D. ECE)

Dear Readers,

Last three decades have been very significant as far as the impact of Technology on Society is concerned. Ability to send information of any type, anywhere, and anytime has altered the way societies live and transact their businesses, be it education, production of goods, selling of goods, entertainment, managing house hold, education, information transaction between individuals, individual to masses, health care, governance etc. Every aspect of social order is getting affected, this is only the beginning of changes in a Technology driven Society. Some of the scientists and thinkers have tried to predict what science and technology holds for us, say by 2030. Michio Kaku (Great Physicist of our time) expresses in his book 'Physics of the Future' and video lecture 'The world in 2030' (You Tube), a glimpse of technology driven society and our role in it. This is just decade plus away.

Vision And Mission

Vision of Institute

“To be a leading educational institution that provides a transformative education to create technically competent and socially responsible professionals and innovators”.

Mission of Institute

- To accomplish excellence in the field of Technical Education through rigorous coursework and by providing an understanding of the needs of society and industry.
- To impart advanced and contemporary technical skills to turn students into potential professionals.
- To develop potential Engineers and Managers by enhancing their technical skills and research capabilities to become successful innovators and entrepreneurs.
- To inculcate professionalism, leadership and business acumen amongst students in a dynamic business environment.
- To induce high ethical standards and moral values to our make students socially responsible professionals.
- To promote our students to learn technological advancements and encourage them to keep updating their knowledge and skills by inculcating their habit of continuous learning.

Vision of Department

“To become a department of academic excellence that would produce technically competent and socially responsible professionals in the field of Electronics, Communication and related domains”.

Mission of Department

- M1: To achieve an educational excellence through effective teaching-learning processes.
- M2: To create a conducive atmosphere for self learning to face contemporary challenges.
- M3: To foster an environment for nurturing the spirit of creativity, innovation and entrepreneurship with industry participation.
- M4: To imbibe professional ethics, social responsibilities and moral values in students and faculty members.

PEO, PSO And PO

Program Specific Outcomes (PSO)

PSO1: An Ability to apply the knowledge of Analog and Digital electronics to solve, analyze and design electronic circuits and systems.

PSO2: An Ability to synthesize, evaluate and analyze communication systems and networks for multidisciplinary tasks.

Program Educational Objectives (PEO)

- PEO1: Graduates of the program will have multifaceted competency for greater employability and accomplished professional career.
- PEO2: Graduates of the program will emerge as leaders and entrepreneurs and will be able to pursue higher education.
- PEO3: Graduates of the program will have thorough knowledge and skill set to deal with real-time complex problems.
- PEO4: Graduates of the program will be able to adjust to a fast changing world with socially responsible and ethical mindset.

Program Outcomes

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.

PEO, PSO And PO

Program Outcomes

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.

WORKSHOPS AND INDUSTRIAL VISITS



Workshop on “Scope and applications of LabVIEW and e-Yantra in LIVE Industrial Projects”

National Instruments & e-Yantra Innovation Centre, of ECE Department organized a workshop on Aug 17 to Aug 20, 2022 on “Scope and applications of LabVIEW and e-Yantra in LIVE Industrial Projects”. The workshop started with on boarding of the candidates. This program is coordinated by Ms. Pragati Tripathi (Assistant Professor-Department of ECE) ITS Engineering College-Greater Noida



Teachers’ day Celebration on 5th September, 2022

Envision- the student activity club & All students (ECE & EEE) of ECE department organized, National Teachers’ Day 2022 on 5th September to mark the birthday of former President, politician, scholar, philosopher and Bharat Ratna recipient, Dr. Sarvepalli Radhakrishnan, who was born on the same day..



An Industrial Visit for students of B.Tech. 2nd Year & 3rd Year ECE at neuroscience laboratory I.I.T. Delhi.

Department of Electronics & Communication engineering organized an industrial visit for students at Neuroscience Laboratory I.I.T. Delhi on August 20, 2022 (Saturday). The objective of this visit is to explore our students about different labs like neuroscience lab, robotics lab, AI & ML lab which will be helpful for them to learn some new technologies for their project in near future



Industrial visit at EV India 2022 Expo (Electric Motor Vehicle Show).India Expo Centre, Greater Noida UP

An Industrial visit organized by ECE, department at EV India 2022 Expo (Electric Motor Vehicle Show). India Expo Centre, Greater Noida UP on 9th September, 2022. Visit was coordinated by Mr. Shahid Khan. Electric Vehicles in India are here to solve much bigger issues like rising pollution and reduce oil dependency. “Since electric vehicles have a lower cost of operations, India is a very unique market.

WORKSHOPS AND INDUSTRIAL VISITS



2 Days Hands on Workshop on “Internet of Things”

The Department of Electronics and Communication Engineering of I.T.S Engineering College, Greater Noida, organized 2 Days Hands-On Workshop on “Internet of Things” on 15th September. On the occasion of Engineers' Day, Workshop has been conducted by COE (Ni & e-Yantra) & IEEE student branch, ECE Department. The speaker "Mr. Ashish Kumar" the director in Verve Gen Tech. Pvt. Ltd. The workshop continues for two days. National Instruments & e-yantra Innovation Centre,.



International Webinar on Reverse Engineering of Human Brain

The International Webinar was organized by IEEE Student Branch and Centre of Excellence e-Yantra on 10th October, 2022, organized by Department of Electronics and Communication Engineering, I.T.S Engineering College, Greater Noida. The speaker of the day was Dr. Chitaranjan Mahapatra, Scientist Human Brain Project, Schlay Institute, Paris. The session was delivered on Reverse Engineering of Human Brain.



Expert Talk on “Interview Preparation of SDE Jobs” by Mr. Sandeep Jain (Founder and CEO GeeksforGeeks)

Department of Electronics and Communication Engineering, I.T.S Engineering College, Greater Noida organized an Expert Talk on "Interview Preparation For SDE jobs by Mr. Sandeep Jain, *Founder & CEO of GeeksforGeeks* (online website portal) on 30th September 2022. expert talk was coordinated by Mr. Prabhakar Sharma Students of CSE & ECE learn how to prepare for Software Development Engineers.



1 Day Workshop on “Industrial Python Programming and its Applications in Machine Learning”

One day workshop on “Industrial Python Programming and its Applications in Machine Learning”. Organized by e-Yantra Innovation Centre, Department of ECE on November 4, 2022. Speaker of the workshop was Mr. Kushal Pathak, Senior Software Engineer, Verve Gen Tech Pvt. Ltd. The workshop was organized with the objective of promoting the awareness and skills among students about Python Programming and its applications in Machine Learning.

WORKSHOPS AND INDUSTRIAL VISITS



1DayWorkshop on “Python Programming: LIVE Projects”

One day workshop on “Python Programming: LIVE Projects”. Organized by e-Yantra Innovation Centre, Department of ECE on November 6, 2022. Speaker of the workshop was Mr. Kushal Pathak, Senior Software Engineer, Verve Gen Tech Pvt. Ltd. The workshop was organized with the objective of promoting the awareness and skills among students about Python Programming and its applications in Machine Learning.



Workshop on “Industrial Robotics & Control”

e-Yantra (COE) and IEEE student branch Department of ECE, ITS Engineering College Greater Noida jointly organized a Workshop on “Industrial Robotics & Control” on 30th Nov 2022. The resource person of workshop was Mr. Ravindra Mishra, R& D Engineer, Sofcon India Pvt. Ltd.



An Auto Expo Visit for students of B. Tech. 2nd ECE at India Expo Centre – Greater Noida (Auto Expo-23, 13-18 January 2023).

An industrial visit organized by Department of Electronics and Communication Engineering, I.T.S Engineering College, Greater Noida, 17th January (Tuesday) 2023 for ECE students. Visit was coordinated by Mr. Prabhakar Sharma, Assistant Professor, ECE Department. Objective of this visit was to provide an exposure and opportunities in Automobile especially Electric Vehicle. Students can know the various companies working in E-vehicles and electronics industries and scope.



Expert Talk on "NEP2020: A revolution in Indian Education System" to celebrate National Education Day.

Institution's Innovation Council and Department of ECE, ITS Engineering College Greater Noida jointly organised an Expert Talk on "NEP2020: A revolution in Indian Education System" on 11 November 2022 (Friday) to celebrate National Education Day. The event was started by Saraswati Vandana and thereafter there was a welcome address by Dr. Mayank Garg, Director, ITS Engineering College Greater Noida and President, IIC-ITSEC. The resource person Prof. Vijita Singh Aggarwal, Director.

WORKSHOPS AND INDUSTRIAL VISITS



Two days workshop on Firebird V Robot

The Department of Electronics and Communication Engineering of ITS Engineering College, Gr. Noida, organized 2-day workshop (9th&10thFeb 2023) on Firebird V Robot and its research platform. Workshop was coordinated by Dr. Setu garg, Ms. Pragati Tripathi conducted the workshop. In the workshop, Ms. Pragati explained the basics of embedded systems, followed by introduction to Firebird V Robot and its research platform. She also explained the coding methodologies at Atmega 2560 along with its interfacing.



E-yantra Symposium 2023 at IIT Bombay

Center of Excellence, e-Yantra of Electronics and Communication Engineering Department, I.T.S Engineering College, Greater Noida organized a e-yantra symposium 2023 at IIT Bombay on April 5th& 6th, 2023 . Objective of this was to explore innovative ideas/approach to embedded systems, robotics and automation. A team of four students (Avinash, Divya, Nikunj, &Piyush) and one Faculty member Dr. ParveenBhola represented our college .



An Expo Visit for students of B. Tech. 3th Year& 4th Year ECE at India Expo Centre, Greater Noida- ELECRAMA-2023(18-22 Feb'2023).

An industrial visit Organized by, Department of Electronics and Communication Engineering, I.T.S Engineering College, Greater Noida. At India expo center ELECRAMA-2023(18-22 Feb'2023). On 20th feb 2023, This visit was conducted by Mr. Prabhakar Sharma, Assistant Professor, ECE-Department ELECRAMA, the largest stand-alone showcase of the Indian Electrical and Allied Electronics “ReImagine Energy – For Sustainable Future” and will be heavily based in showcasing innovation and future technologies in many areas including Storage.



1DayHands on Workshop: “Python Programming & Data Analytics”

1 Day Hands on Workshop: “Python Programming & Data Analytics” was organized by e-Yantra Innovation Centre Department of ECE, I.T.S Engineering College, Greater Noida. On April 12,2023 . Ms. Pragati Tripathi (Assistant Professor) was event coordinator and Ms. Avneet Kaur, Senior Corporate Expert, Cetpa Infotech Pvt. Ltd was the speaker. The Objective of The workshop was organized with the objective of promoting the awareness and skills among students about Python Programming and its applications in Data Analytics.

WORKSHOPS AND INDUSTRIAL VISITS



1 Day Workshop on “Emerging Trends in Embedded

The Department of Electronics and Communication Engineering of ITS Engineering College, Gr. Noida, organized 2-day workshop (9th&10thFeb 2023) on Firebird V Robot and its research platform. Workshop was coordinated by Dr. Setu garg. Ms. Pragati Tripathi conducted the workshop. In the workshop, Ms. Pragati explained the basics of embedded systems, followed by introduction to Firebird V Robot and its research platform. She also explained the coding methodologies at Atmega 2560 along with its interfacing.



Seminar on “Unlocking New Possibilities using Technology” to celebrate National Technology Week

Institution's Innovation Council (IIC) of ITS Engineering College in association with Department of ECE & EEE organized Seminar on “Unlocking New Possibilities using Technology” to celebrate National Technology Week on 17th May 2023, Wednesday. The Chief Guest & Keynote Speaker Mr. Arun Mishra, CEO & Founder-Bizbrolly Solutions discussed about his technopreneur journey and experience of software product development across various platforms and organisations globally.



Seminar on “Career Opportunities after B.Tech”

ECE and EEE Department jointly organized a seminar on May 05, 2023 on the topic of “Career Opportunities after B.Tech”. Event was Coordinated by Dr. Parveen Bhola Assistant Professor, EEE Department . Objective of the seminar was to aware the students about the various opportunities after B.Tech and motivate them for higher Education and Government Sector Exam and PSU Exam. The guest of the event was Mr. Arjun Chhabra, Sr. Faculty of ACE Academy. Mr. Arjun has the vast experience of teaching the GATE/PSE/PSU exam



Two Days Hands on Workshop on “Industrial to Robotics” by e-Yantra IIT Bombay.

The Department of Electronics & Communication has organized a two day workshop on “Industrial to Robotics” by e-Yantra IIT Bombay on 16th & 17th June 2023. This workshop was hosted by e-Yantra (COE), ITS Engineering College and event coordinated by Assistant Professor & Coordinator e-Yantra Lab. the Speakers of this workshop was Mr. Kalind Karia & Mr. Jaison Jose, Senior Project Engineer, e-Yantra, IIT Bombay. Objectives of the Workshop was Impart theoretical and programming knowledge to faculty members through workshops

Faculty Achievements

- Dr. Setu Garg , Associate Professor, Department of ECE, participated in the two-day workshop on “Introduction to Embedded Systems and Robotics” conducted on 27th & 28th January, 2023 held at Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh.
- Ms. Pragati Tripathi, Assistant Professor, Department of ECE, participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Integration of WSN & IOT for agriculture" from 2nd January, 2023 to 13th January, 2023 at JSS ACADEMY OF TECHNICAL EDUCATION.
- Mr. Prabhakar Sharma, Assistant Professor , Department of ECE, presented a paper on “A Review on design techniques of Two-stage CMOS Op-Amp” in the 2nd International Conference held on 24th & 25th February 2023, at IEC Group of Institutions, Greater Noida
- Mr. Prabhakar Sharma, Assistant Professor , Department of ECE, presented a paper on “Design factors affecting performance of solar PU module” in the 2nd International Conference held on 24th & 25th February 2023, at IEC Group of Institutions, Greater Noida.
- Dr. Setu Garg , Associate Professor, Department of ECE, Published a book “Machine Learning: Enabling Health Care”
- Mr. Shahid Khan , Assistant Professor , Department of ECE, presented a paper on “A Review on design techniques of Two-stage CMOS Op-Amp” in the 2nd International Conference held on 24th & 25th February 2023, at IEC Group of Institutions, Greater Noida
- Mr. Agha Asim Hussain , Assistant Professor , Department of ECE presented, a paper on “Real-time & autonomous Object- Detection based tracking using DeepSORT & transfer learning Technique ” in the 2nd International Conference held on 24th & 25th February 2023, at IEC Group of Institutions, Greater Noida
- Ms. Pragti Tripathi, Associate Professor, Department of ECE, participated in the two-day workshop on “Introduction to Embedded Systems and Robotics” conducted on 27th & 28th January 2023 held at Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh
- Ms. Pragti Tripathi, Associate Professor, Department of ECE, served as reviewer for “The 2023 international conference on Cyber Management & Engineering” Organized virtually and in –person on 26th & 27th January 2023, at Bangkok , Thailand .
- Ms. Pragti Tripathi, Associate Professor, Department of ECE, participated in IP Awareness/Training program under National Intellectual Property Awareness Mission on 30th January, 2023 .

EDITORS

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Ms. Archi Mishra 2nd year B.Tech ECE Department

Mr. Aditya Yadav 2nd year B.Tech ECE Department



INDUSTRIAL VISITS @ I.T.S



CELEBRITIES @ I.T.S



COURSES OFFERED BY I.T.S. - THE EDUCATION GROUP

CAMPUS - I
Mohan Nagar
(ESTD. 1995)

COURSES OFFERED
PGDM/ MBA/ MCA
/ BBA/ BCA



CAMPUS - II
Murad Nagar
(ESTD. 2000)

COURSES OFFERED
Ph.D (Pharmaceutical Science) /
MDS/BDS/BPT/MPT
D. Pharma/B.Pharm/M.Pharm



CAMPUS - III
Greater Noida
(ESTD. 2006)

**MBA, B.Tech - ME CSE,
CE, E&CE, SE-AI&ML
CSE-DS, BBA, BCA
BPT**



CAMPUS - IV
Greater Noida
(ESTD. 2006)

MDS/BDS



CAMPUS - V

CHADHA PUBLIC SCHOOL
Meerut - 250501



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