

NEWSLETTER



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASANSOL ENGINEERING COLLEGE



Statement of Program Educational Objectives

- **PEO I:** Apply the knowledge acquired in the field of Computer Science and Engineering to provide solutions for various multidisciplinary engineering and societal challenges.
- **PEO II:** Involve in life-long learning for sustainable development in the evolving technological domains.
- **PEO III:** Emerge as successful computer engineers, administrators, academicians and entrepreneurs through team work while maintaining ethical values.

Vision of Department:-

To aspire to become a department which can provide value-based quality education, foster research and innovation, and to groom the students to be globally competent.

Mission of Department:-

1. To create an outcome based teaching learning process in order to increase the creativity and innovativeness of the students to face the challenging world.
2. To motivate students and promote research and development among students, so that they can choose it as an optional career.
3. To provide ethical and value based education by promoting activities addressing the societal needs.



"WHEN YOU WANT TO KNOW HOW THINGS REALLY WORK, STUDY THEM WHEN THEY'RE COMING APART"

William Gibson

About the Department

Established in the year 1998, with an intake of 40. The department of ECE now has grown up to an intake of 120, over the years. **The Electronics & Communication Engineering Department** is reputed for its knowledgeable, hardworking and caring faculty members as well as enthusiastic, intelligent disciplined students. Electronics & Communication Engineering Department is well known for presenting consistently good academic results and excelling in co-curricular as well as extra-curricular activities.

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HOD's Message

Our Institution boasts a robust undergraduate program in Electronics and Communication Engineering, granting B.Tech degrees. Additionally, we provide opportunities for post graduate studies through our M.Tech program. Each year, we admit 120 students into our B.Tech program and 13 students into the M.Tech program

Faculty Editors:

- Mrs. Khushi Banerjee
- Mr. Sujit Goswami
- Mrs. Karuna Nandi

Student Editors:

- Mr. Prithiraj Nandan, 6th Sem
- Ms. Mousumi Dhar, 6th Sem
- Anurag Banerjee, 4th Sem
- Bapi Kundu, 4th Sem
- Sayan Mondal, 4th Sem
- Mr. Subha Sundar Chakraborty, 6th Sem
- Ms. Susmita Mukherjee, 6th Sem
- Mr. Bishal Sah, 6th Sem
- Ritika Das, 6th Sem
- Rounak Kayal, 6th Sem

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FDP Attended

1. FDP on Recent advancement in smart grid and renewable energy from 19/12/2022 to 23/12/2022, organised by B,C Roy Engineering College and IEI, Durgapur Local Centre. 2. International FDP from 28/11/2022 to 02/12/2022, organised by CSE Dept, JIS University
2. Cloud Computing and DevOps - an Industry Perspective held on 01-Dec-2022 at Asansol Engineering College (AEC), Asansol 2. Emerging trends in communication and signal processing for next generation applications- Budge Institute Technology kolkata, 12/9/22 to 16/9/22. 3. Recent advancement in Smart grid and Renewable Energy - Dr B.C. Roy Engineering College , 19/12/22 to 23/12/22
3. Sensors Technology by Gurjeet Singh from 20th October to 24th October, 2022
4. Introduction to data science and machine learning by Gurjeet Singh from 20th October to 24th October, 2023.
5. “Recent advances in VLSI and embedded systems” by Gurjeet Singh from 30th October to 3rd November, 2023.
6. “21st century emerging trends in research and paradigm shift in business practices” by Gurjeet Singh from 19th November to 23rd November, 2023.
7. “Recent trends in machine learning, IOT and data science” by Gurjeet Singh from 11th December to 15th December, 2024.
8. “Recent paradigm on ML, Cyber Security and sustainability” by Gurjeet Singh from 6th January to 10th January, 2024.
9. “Effect of Generative AI in modern research and industry” by Gurjeet Singh from 20th January to 24th January, 2024.
10. “AI beyond the basics: Exploring advanced concepts and real world applications” by Gurjeet Singh from 10th February to 14th February, 2024.
11. “International Faculty Development Program on Project Excellence Guide: Digital Marketing” by 17th March to 21st March, 2024.
12. “Faculty Development Program on Cloud Architect” by Gurjeet Singh from 23rd April to 27th April, 2024.
13. “Computational tools for Engineering and Research”: Issues and Challenges” by Gurjeet Singh from 3rd May to 7th May, 2024.

International journal/conference published

1. Swati Bhattacharjee, Chandan Kumar Ghosh “Study of Decoupling between Closely Spaced Microstrip MIMO antennas using Microstrip Resonator” International journal of Systems, Control and Communications-Inderscience (Accepted for publication on 12/10/2022) (Scopus- Elsevier Index)-Journal Impact Factor-0.7072. Swati Bhattacharjee, Chandan Kumar Ghosh “Deployment of Frequency Selective Surface (FSS) for Reduction of Mutual Coupling and Cross-Polarization in MIMO Antennas” International interdisciplinary conference on mathematics, engineering and science -11.11.2022-12.11.2022(IEEE MESICON-2022) organised by Dr.B.C.Roy Engineering College, Durgapur.
2. Comparative Study on Registration Site for Vaccination Due to Covid Pandemic Situation Sumanta Karmakar, Khushi Banerjee, Amit Kumar Rai, Sambit S Mondal, Shamik Das, Rudra Narayan Ghosh Journal of Control System and its Recent Developments, Volume Volume 5 Issue 1, Year 2022 2. Development of New Gaming Zone using Web Development Sumanta Karmakar Advances in Electronics and Communication Engineering, Volume Volume - 4, Year 2022
3. Cloud Computing and DevOps - an Industry Perspective held on 01-Dec-2022 at Asansol Engineering College (AEC), Asansol 2. Emerging trends in communication and signal processing for next generation applications- Budge Institute Technology kolkata, 12/9/22 to 16/9/22. 3. Recent advancement in Smart grid and Renewable Energy - Dr B.C. Roy Engineering College , 19/12/22 to 23/12/22
4. SCI, SCOPUS(amplitude modulation technique in the field of communication by current conveyor circuit.
5. Swati Bhattacharjee, Chandan Kumar Ghosh, Ammar Saquib, Rishav Goari, Trisha Kumari, Sourav Kumar “Suppression of Mutual Coupling and Cross polarization (XP) radiation of 2-channel MIMO antenna using Electromagnetic Soft Surface(EMSS) for Ku Band Applications” International Conference Energy Systems, Drives, Power Electronics, Measurement and Sensors (ESDPEMS -2023) dated-03.02.23-04.02.23
6. Introduction to Machine Learning in Image Processing Technique by McGRAW HILL (13.03.23 - 17.03.23)

Book Chapter Published

IoT Based Smart Electricity Energy Meter using ESP32 and Blynk Application by AkiNik Publication on 17.06.2023 ,Integrated Publication

Events Organised in the Department

Technical Talk by Scientist, ISRO Rima Ghosh on "Smart Altitude Change in Spacecraft" on 28/03/2023