5th Edition
January 2026- June 2026)

ECS TIMES

Department of Electronics and Computer Science



Dr. Bapita Roy
H.O.D., ECS

HOD's Desk

We feel proud to be the Department committed to an ideal of being a beacon of knowledge in cultivating young talent and planting deep love for learning. Supported by ultra-modern facilities, we are determined to create an intellectually vibrant atmosphere with an experienced team of faculty members, which shall be conducive to academic excellence and creative innovation. I am very happy that the students of ECS are continuing the publication of the the departmental newsletter. It is a great initiative by the editorial team of the 5th edition of 'ECS Times'. Our department succeeds by virtue of the passion of both students and faculty. With new challenges ahead, let's stay curious, collaborative, and committed to excellence; shaping a bright future together.



Prof. (Dr.) Swarup Kr. Mitra
PRINCIPAL, GNIT

Principal's Desk

I am very glad that the Electronics and Computer Science Department has published the 4th edition of departmental Newsletter "ECS Times" highlighting the current departmental activities and keeping key focus on academic and co academic growth of the department. This will boost up the students to bring the light in their activities and achievements, which will inspire the other stakeholders. I hope, this type of activity will continue with improvement of quality and motivation for all students of the department. I wish a big success of the event. Thank you.

Welcome to the Department of Electronics and Computer Science. This department offers a comprehensive Bachelor of Technology (B.Tech) program that blends the fields of electronics, computer science, automation etc. Here, students are trained to become proficient engineers equipped with both theoretical knowledge and practical skills.

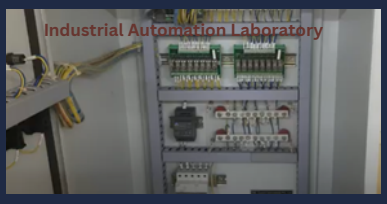
Learning Areas

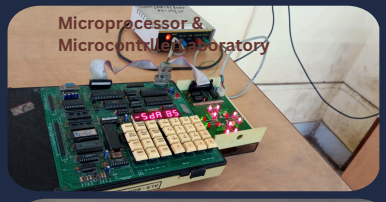
1. Core Electronics: Courses cover the principles of electronic circuits, digital systems, microcontrollers, and signal processing.
2. Computer Science: Programming languages, algorithms, data structures, databases, software engineering, and more. Research Opportunities: The department
3. supports innovation and research, with opportunities for students to work on projects, publish papers, and contribute technological advancements.
4. Industry Interaction: Regular workshops, seminars, internships, and collaborations with leading tech companies ensure that students are industry-ready by the time they graduate.

Career Prospects: Graduates of this program are well-positioned for careers in various sectors including software development, electronics design, IoT, telecommunications, IT, and more. The interdisciplinary skills also make them valuable in emerging fields like AI, data science, and cybersecurity.

Other Facilities

- Faculty members with more than 15+ years of experience in Academics.
- Technical assistants with 12+ years of experience.
- State-of-Art Laboratories with all modern facilities and high- end computer i.e. IoT Lab, Industrial Automation Lab, Computer Center.
- Departmental library.







Students' Achievements & Placement milestones

Inter-Institutional B-Plan Competition





Participants learned business planning, market analysis, and problem-solving techniques through practical experience.Benefit in-terms of learning/skill/knowledge obtained from this Intra Institutional B-Plan Competition improved students' innovation, communication, teamwork, and presentation skills.

Student's Publications:

1. *Suparna Maity, Bapita Roy, Abhoy Ghosh, Debangi Chakraborty, Santana Das, Saikat Majumder, Sanghamitra Layek, and Bikas Mondal. "Transforming waste into energy through a prototype model for sustainable and future-oriented solutions." In Recent Trends in Engineering, Science and Technology, pp. 86-90. CRC Press, 2025.ISBN No. 9781041121633, 19th august,2025, https://doi.org/10.1201/9781003663348*

2. *Anjali Pathak, Aditya Singh, Triparna Datta, Zariya Parveen, Bapita Roy, Santana Das, "Review on Agricultural IoT: A Revolution for Smart Village Adoption" Proceedings of Bhavisya Entrepreneur 2025: National Symposium on Entrepreneurship Innovation (1st Edition), ISBN: 978-93-343-9865-6, pp. 92-100, 2025.*

3. *Ayan Bhattacharyya , Debakikumar Chakraborty, Harsha Shil, Anasua Choudhury, Santana Das, Suparna Maity, "Implementation of Piezoelectric Energy Harvesting with Buck-Boost Converter", Proceedings of Bhavisya Entrepreneur 2025: National Symposium on Entrepreneurship Innovation (1st Edition), ISBN: 978-93-343-9865-6, pp. 129-135, 2025 .*

4. *Kishukant Kumar, Kajal Tiwari, Abhoy Ghosh, Debangi Chakraborty, Suparna Maity, Santana Das. "Waste-Energy Powered Smart Irrigation System", Proceedings of Bhavisya Entrepreneur 2025: National Symposium on Entrepreneurship Innovation (1st Edition), ISBN: 978-93-343-9865-6, pp. 276-280, 2025.*

Major Placements of ECS (2022–2026) batch



Rohan Gupta secured a ₹27 LPA CTC at JUSPAY demonstrating excellence in DSA, system design, and problem-solving. His strong technical foundation and rigorous preparation helped him excel in the selection process.



Santanu Rajak Das
Multiple Offers
- ***LTIMindtree,***
- ***Cognizant,***
- ***TCS Digital***



Piyush Pal
Multiple Offers
- ***TCS Digital***
- ***Ayant Software***



Puskar Mal
Multiple Offers
- ***TCS Digital***
- ***Ayant Software***



Debangi Chakraborty
Placed at:
LTIMindtree



Monisha Malik
Placed at:
Capgemini



Eram Fatima
Placed at:
Capgemini



Sreeja Dutta
(Actress)
Placed at:
Film Industry(National & International)



Souvik Dey
Placed at:
Ayant Software



Yash Vijay Sain
Placed at:
Twixor Private Limited

Departmental Events

International Seminar on “Advances in Intelligent Systems”



International Seminar titled “Advances in Intelligent Systems” on 2nd January 2026 at 3:30 p.m. The seminar featured an eminent international expert, Prof. Mohamed Rawidean Mohd Kassim, R&D Manager, Technology Deployment Department, Malaysian Institute of Microelectronic Systems (MIMOS), operating under the Ministry of Science, Technology and Innovation, Malaysia.

Skills Strategy and Success for Employability in 2026 by Industry Experts



The Department of Electronics and Computer Science (ECS) organized a Seminar titled “Employability Skills and Strategic Success” on 18th March 2026 in the GNIT Auditorium. The seminar was designed as a part of the institute’s academic enrichment and placement readiness initiatives.

Mastering Trending Technologies for Campusing



The Department of Electronics and Computer Science at Guru Nanak Institute of Technology (GNIT), in collaboration with IEEE, IIC Cell & Ardent Computech Private Limited organized a seminar on “Mastering Trending Technologies for Campusing” on 3rd February 2026 at 2.30 pm. onwards at GNIT Auditorium Hall.

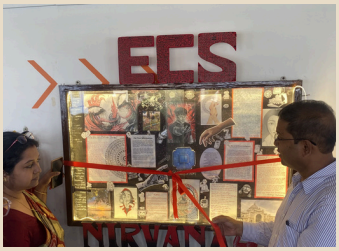
Interactive Peer Learning Session



The Department of Electronics and Computer Science organized a Workshops as a part of Peer Learning Initiatives. These Workshops are on Job Interview Preparation for JUSPAY company where experience is shared by already placed student Rohan Gupta, a final year student of ECS Department

Wall Magazine of ECS department





"NIRVANA" featured artworks, quotes, photographs, stories, and designs from the departmental students, reflecting their diverse talents. The inauguration fostered a sense of unity and inspiration among attendees.

Industrial visit





Industrial Visit to Variable Energy Cyclotron Centre (VECC), Kolkata

Mock Interview by Industry Experts



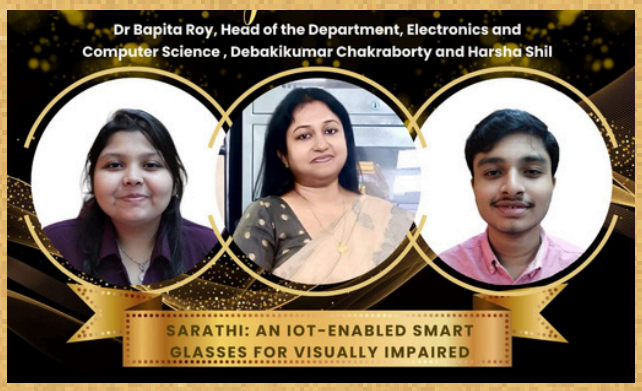
The session was designed to simulate a professional interview environment while equipping students with the tools to excel in future placement opportunities.

MoU Signing

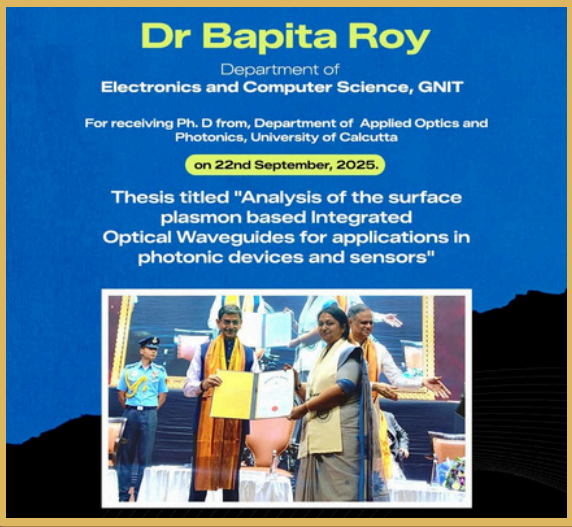


MoU Signing ceremony between Department of Electronics and Computer Science, Guru Nanak Institute of Technology and Euphoria GenX, Kolkata

Research Grant for Smart Innovation by IEI



Ph.D. Awarded



Faculty Achievements And Reseach & Development

- **Conference publications:**

1. Suparna Maity, Pankaj Saha, Munmun Khanra, "Adaptive State-of-Energy Estimation of Supercapacitors using Fractional Calculus", 2025 IEEE 4th International Conference on Smart Technology for Power, Energy and Control (STPEC-2025), IEEE, 4 May, 2026, DOI: 10.1109/STPEC66316.2025.11490506, SCOPUS.

2. Saikat Majumder, Sparsh Kumar Gupta, Soumik Karmakar, Bapita Roy, Monu Bhagat, and Himadrinath Saha, "Deep Learning-Assisted Dynamic Plastic Identification Technique", 2026 International Conference on Computing, Electronics & Communications Engineering (ICCECE), IEEE, 28 April,2026, DOI: 10.1109/ICCECE69715.2026.11493068, SCOPUS.

- **Book Publications :**

1. Dr. Saikat Majumder, Dr. Subhamita Mukherjee, Dr. Monu Bhagat and Dr. Bapita Roy "Industry 6.0 and Its Impact on Clean Energy", Integrated Publication, ISBN:978-93-7253-051-3, February,2026, DOI: https://doi.org/10.62778/int.book.675.

2. Dr. Bapita Roy, Suparna Maity, Santana Das and Sanghamitra Layek, Next Generation Sustainability with AI & IoT, Vol.1, AkiNik Publications, ISBN No. 978-93-7150-540-6, April, 2026, DOI: https://doi.org/10.22271/ed.book.3667, Crossref.

- **Book Chapter Publications :**

6. Suparna Maity, Santana Das, "Digital Twins and Simulation for Energy Optimization", Industry 6.0 and Its Impact on Clean Energy, Integrated Publication, New Delhi, ISBN:978-93-7253-051-3, February,2026. https://doi.org/10.62778/int.book.675.

7. Santana Das, Suparna Maity. " Renewable Energy and System Integration in the Era of Industry 6.0" Industry 6.0 and Its Impact on Clean Energy, Integrated Publication, New Delhi, ISBN:978-93-7253-051-3, February,2026. https://doi.org/10.62778/int.book.675.

- **Patents Granted :**

Dr. Saikat Majumder, Dr. Subhamita Mukherjee, Dr. Monu Bhagat and Dr. Bapita Roy "Industry 6.0 and Its Impact on Clean Energy", Integrated Publication, ISBN:978-93-7253-051-3, February,2026, DOI: https://doi.org/10.62778/int.book.675.

- **Patent Published :**

1. *Bapita Roy, Suparna Maity, Ravi Kumar, Shayak Chakraborty, "IoT Enabled Smart Patient Health Monitoring System Using Machine Learning Approach", Application No. 202531059976, Publication Date: 04.07.2025.*
2. *Suparna Maity, Ms. Bapita Roy,Ms. Santana Das, Debangi Chakraborty, Abhoy Ghosh, "Transforming Waste into Energy for Sustainable and Future-Oriented Solutions", Application No. 202531060010, Publication Date: 04.07.2025. Filing Date: 23/06/2025*
3. *Ms. Santana Das, Ms. Bapita Roy, Ms. Suparna Maity, Mr. Mrinmoy Dutta, Soumalya Paul, Soumili Chatterjee, Triparna data, Zariya Parveen, Farhan Akhtar, Aditi Karfa, " IOT-ENABLED INTELLIGENT SYSTEM FOR REAL-TIME DETECTION AND MONITORING OF ELECTRICITY THEFT IN POWER DISTRIBUTION NETWORKS" , Application No.202531087908 A, Publication Date : 07/11/2025.*

Students' Byte



~~ Niladri Saha

Our Department offers a perfect blend of Electronics and Computer Science, creating diverse opportunities in AI, IoT, robotics, and embedded systems. With supportive and dedicated faculty guiding us at every step, the department fosters innovation, practical learning, and confidence to pursue a successful career in technology.



~~ Rajdeep Das

By integrating Electronics and Computer Science, our department provides a comprehensive foundation in emerging technologies, including Artificial Intelligence, the Internet of Things, robotics, and embedded systems. Under the mentorship of our dedicated faculty, students engage in practical, innovation-driven learning, ensuring they are thoroughly prepared for dynamic careers in the technology sector

created by:
Yash Kumar Yadav
(2nd year ECS student)
2025-29 batch

EDITING TEAM :

FACULTY MEMBERS : DR. BAPITA ROY, MRS. NABAMITA PAUL
STUDENT MEMBERS : NILADRI SAHA, RAJDEEP DAS
(ECS 3rd year, 2024-28 batch)