



ELECTRONIKA-2022

5th Edition

"The secret of getting ahead is getting started"

- Mark Twain

About the Department

The Department of Electronics and Communication Engineering of Siliguri Institute of Technology (NAAC Accredited) was established in the year of 1999. At present the department runs about 10 state-of-the-art laboratories for undergraduate and R&D activities. The department consist of qualified and experienced faculty and technical staff with noteworthy research background.

VISION

To become a nationally recognized center of excellence that produces skilled, innovative and ethical engineers relevant for academics and industry.

MISSION

- To offer qualitative Electronics and Communication engineering education and professional ethics of global standards through innovative methods of teaching and learning with practical orientation so as to prepare students for successful career / higher study.
- Foster culture of innovation and research in the field of Electronics & Communication engineering.
- To provide best learning environment to the students, faculty and staff members conducive to creating excellence in technical education.

Message from the Principal



Prof. Dr. Mithun Chakraborty
Principal, SIT

The fact of launching the "Electronika"-2k22 edition by the faculty, staff and students of ECE department of Siliguri Institute of Technology gives me immense pleasure. It is indeed a matter of pride and satisfaction having this newsletter which showcases the progress in the areas of academic, extracurricular, faculty and students' achievements of the department. Electronika'-2k22 is focussed on all sorts of activities undertaken by a department and opens the opportunity to enhance the writing skills among the members. This will not only benefit the students with the information of their departmental achievements but also motivate and aspire others to know the heights achieved by the ECE department. I congratulate the Editorial Board of this News Letter who have played a wonderful role in accomplishing the task in record time. I express my deep sense of gratitude to HOD, Dr. Debajyoti Misra for undertaking the task and successful completion of the same. Also my heartfelt Congratulations to staff members and Students for their fruitful effort. With all my Best Wishes.

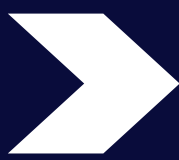
Message from the HOD



Prof. Dr. Debajyoti Misra
Head of the Department,
Electronics and
Communication
Engineering, SIT

I'm pleased to announce that the Department of Electronics and Communication Engineering (ECE) has released its Newsletter for Academic Year 2021-22, which details the different activities and achievements of our faculty and students. I wish that this would ignite the fires of enthusiasm in students' minds and generate fervour for innovative research ideas among the faculty of ECE.

The sole vision of the department is to produce confident technologists with human qualities and Indian ethos. The department provides a great learning environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them. My best wishes to the Electronika editorial board for continuing to do such excellent work for academia.



Ms. Enakshi Pal has been selected in Accenture plc and Persistent.



Mr. Mainak Dasgupta has been selected in Amdocs and Virtusa.



Ms. Kankana Choudhury, Mr. Satwik Chatterjee, Mr. Soumyadeep Halder, Ms. Srishti Pal, Mr. Mukesh Kumar Sahani and Mr. Pratim Kumar Das have been placed in Capgemini.



It was a great accomplishment for **Ms. Ruparna Dutta, ECE 3rd year** for being officially declared as a planetary defender on NASA'S Double Asteroid Redirection Test on November 6, 2021.



Mr. Jaydeep Sarkar has been placed in Areteans.



Mr. Nur Hasan and Ms. Sakchi Lama have been placed in ACS Solution.

Mr. Swarup Das, ECE 2nd Year, has successfully completed Internship as a Software Engineer Intern at Digital Product School.



Mr. Abhisek Mahato has been selected in CGI.



Mr. Argha Sen has been selected in Ericsson Global India Ltd. and Celebal Technology.



Mr. Biraj Ghosh and Mr. Aditya Gupta from 2nd year, ECE have successfully completed NPTEL courses conducted by IIT's and IISC and got Elite in their NPTEL Course.

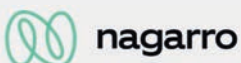
Ms. Soni Kumari, ECE 3rd year, has successfully completed the course on "What is Data Science" an online course authorized by IBM and offered through Coursera.



Ms. Priyanka Kundu has been selected in Nagarro.



Ms. Sweta Jaiswal has been placed in ITC Infotech.





Ms. Basudha Ball, Mr. Rahul Roy and Mr. Sumit Kumar have been placed in Tata Consultancy Service (TCS).



Mr. Roshan Kumar Vats has been selected in Tiger Analytics.



Mr. Subhranil Sarkar, ECE 2nd year has successfully completed Internship as a UX/UI Designer Intern at Blackspektro Solutions Private Limited.



Mr. Subhajit Dey has been placed in Turing.com.



Mr. Rinku Roy has been placed in Celebal Technology.



Mr. Debasish Ghosh and Mr. Pratim Kumar Das have been placed in Walkover.

Congratulations to **Mr. Biraj Ghosh and Ms. Aishwarya Maitra** from 2nd Year, ECE for being winner at the event "Softcraft" at TECHNOVISION 2K22.

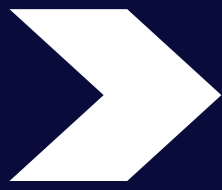


Ms. Shreya Chattopadhyay, Mr. Debasish Ghosh, Mr. Souhardya Paul, Ms. Sushmita Mukherjee, Ms. Shroyeta Chakraborty and Mr. Subhajit dey have been placed in Wipro.



Mr. Jaydeep Sarkar has been placed in ACS Solution.





- Heartiest congratulation to **Ms. Neha** and **Ms. Suchana Singh** of **3rd year ECE** for winning the event "**Carrom Competition**" held in Annual Games and Sports at SIT on May 22, 2K22.



- **Mr. Aniruddha Das** of **3rd Year, ECE** was the 1st Runner-up in the event "**Softcraft**", at TECHNOVISION 2K22, at SIT.



- Congratulation to **Ms. Shiwani Ojha** from **3rd year ECE** for being the winner at the event "**Hardware Yoddha**" at TECHNOVISION 2K22.

- **Ms. Sristi Paul** and **Ms. Basudha Ball** of **4th year ECE** won the "**Women's Badminton Doubles**" in Annual Games and Sports, SIT.

- Congratulations to **Mr. Sourav Singh** of **3rd year ECE** and **Mr. Saptaparna Goswami** of **2nd year ECE** won the **Champion's Trophy in Basketball** in Annual Games and Sports, SIT.

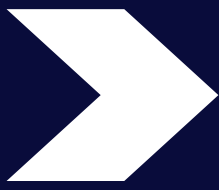


- Congratulations to **3rd year ECE** student **Mr. Biplab Sarkar** who got 1st position in the "**Table Tennis**" competition and won the 1st Runner-up trophy of men's "**Badminton Doubles**" in Annual Games and Sports, SIT.



- The students of **2nd Year ECE** had organised a "**Freshers Welcome Program**" for the 1st year students, where the students of all different years had actively participated.





- An **Alumni Interaction Program** on the theme “**Recent Industry Trends in Electronics and Communication Engineering for Better Employability**” was organised by the **Department of Electronics and Communication Engineering, SIT** on February 23, 2022. The speakers of this program were our **Ms. Vishaka Subba**, Senior software Engineer at Robert Bosch Limited, India, and **Mr. Tapas Roy**, Software Developer, NXP Software.

- **Department of Electronics and Communication Engineering, SIT** had organised a **Webinar** on “**Fundamentals of Intellectual Property Rights**” on March 07, 2022 for the students and another on “**Role of IPR in Academia and Research**” for their faculty and staff.



- **Department of Electronics and Communication Engineering, SIT** had organised a **Webinar** on “**Career Options and Opportunities for Electronics and Communication Engineers.**” on March 15, 2022. The speaker of the event was **Mr. Renjith C.V**, Electrical Architect/Product Designer at Philips India LTD, Pune , India.

- The **NDLI Club unit, SIT** in a collaboration with the **department of Electronics and Communication Engineering, SIT** and organised a **Webinar** on “**Importance of Reading for Self Development**” on March 16, 2022. The speaker of that event was **Mr. Arunabha Sengupta**, Executive member of Akhil Bharat Vivekananda Youth Mahamandal, Kolkata (ABVYM).



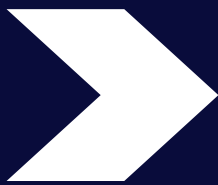
- **Department of Electronics and Communication Engineering, SIT** had inaugurated a new technical club “**Cyber Physical System Club (CPS)**” on March 24,2022. The aim of CPS club is to produce competent engineers who can design and develop new technology based engineering systems.



- An inspiring and motivating lecture on “**Recent Trends & Future Prospects of VLSI Technology**” was organised by the **department of Electronics and Communication Engineering, SIT** for 2nd Year and 3rd Year ECE students on April 18, 2022. **Prof. Dr. Subir Sarkar, HOD ECE, Jadavpur University** was the honorable guest lecturer of that event.



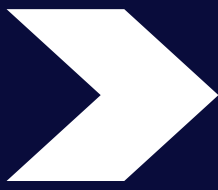
- The **Department of Electronics and Communication Engineering, SIT** had organised a **Webinar** on “**Recent Industry Trends in Electronics and Communication Field.**” on April 20, 2022 for all 2nd, 3rd and 4th year students and also for their faculty and staffs. The speaker of the event was **Dr. Padmanava Sen**, Research Group Leader, RF Design Enablement Group, Barkhausen Institut, Germany.



- **S. K. Ghosh, A. Ghosh, S. Chakraborty, L. L. K. Singh and S. Chattopadhyay**, "Design Approach Toward Compact Circular Sector Microstrip Antenna With Low Cross Polarization," *IEEE Antennas and Wireless Propagation Letters*, March 2021, DOI: 10.1109/LAWP.2021.3050701.
- **S. K. Ghosh, A. Ghosh, S. Chakraborty, L. L. K. Singh and S. Chattopadhyay**, "The Influence of Feed Probes on the Modes of Circular Sector Microstrip Antennas: An investigation," *IEEE Antennas and Propagation Magazine*, August 2021, DOI: 10.1109/MAP.2019.2958520.
- **A. Mukherjee, S. Mandal, D. Ghosh and B. N. Biswas**, "Influence of Additive White Gaussian Noise on the OEO Output," in *IEEE Journal of Quantum Electronics*, February 2021, DOI: 10.1109/JQE.2020.3038464.
- **M. Saha, M. K. Naskar, B. N. Chatterji**, "Human Skin Ringworm Detection Using Wavelet and Curvelet Transforms: A Comparative Study", *International Journal of Computational Vision and Robotics*, April 2021, DOI: 10.1504/IJCVR.2021.115158.
- **M. Parai, S. Srimani, K. Ghosh and H. Rahaman**, "Multi-source Data Fusion Technique for Parametric Fault Diagnosis in Analog Circuits," *Integration, the VLSI Journal*, Jan. 2022. DOI:10.1016/j.vlsi.2022.01.005
- **D. Ghosh, A. Mukherjee, S. Mandal, N. R. Das, B.N. Biswas**, "Controlling birhythmicity in a new Dual Loop Optoelectronic Oscillator with an injection locked van der Pol oscillator", *Physica D: Nonlinear Phenomena*, August 2022, DOI: 10.1016/j.physd.2022.133324.



- **Prof. Dr. Sudip Kumar Ghosh** was awarded **PhD.** degree for the thesis on "**Qualitative and Quantitative Analysis on some Characteristics of Circular Sector Microstrip Antennas**" from Mizoram University in 2022.



I would like to thank my alma mater, **Siliguri Institute of Technology**, for helping me with guidance and support. The faculty ensured that all the students improved both academically and as a person. I am grateful to the department of ECE, for helping me grow as an individual.



Ms. Haimantika Mitra
Developer Advocate @AppWrite
ex Microsoft



WALL MAGAZINE 2K22

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Ravi Kumar Byahut, 3rd Year-ECE

It was really a great experience for me to work on **ELECTRONIKA-2K22**. In this newsletter we highlighted the success stories of our department, which is moving ahead day by day. I also want to thank Anindita mam and Aditi mam for giving us this great opportunity.



Swarup Das, 2nd Year-ECE

It was truly great to be a part of the annual newsletter **ELECTRONIKA-2K22** and designing it. It shows how the department is growing each and every year with great minds and achievements. I'm thankful to Anindita Mam and Aditi Mam for this opportunity.

We welcome your comments and ideas for future issues

