



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

NEWSLETTER

The objectives of this News Letter is to keep our Students, Parents, Faculty and Industry informed about the activities happening in the Department.

Vision

To be recognized by the society as one of the global leaders in the field of Electronics and Telecommunication Engineering. To contribute in the holistic growth of students and make them competent to contribute to the need of public and society through research, innovation and technological advancement.

Mission

To deliver theoretical based, advanced technological concepts, teamwork spirit, ethics, human values, practical base, research and development to the students, extension activities to other organizations through creation of advanced facilities and providing platforms for synergy.

To create opportunities for Research and Development to meet the ever changing and ever demanding needs of the Electronics industry in particular, along with other interdisciplinary fields in general.

To promote research culture by infusing scientific temper in the students and guiding them towards R&D activities.

Message from HOD of Department



Mrs. Swapna Patil
Assistant Professor
(HOD EXTC)

The global electronics industry is vast. Electronics is so ubiquitous in modern life that there are many opportunities for electronic engineering graduates to apply their expertise in other industry sectors. Business, medicine, aviation, communications, transport, space exploration, industrial automation, science, entertainment, music, gaming and environmental monitoring have all been revolutionized by electronics. The role of the

electronics engineer is pivotal in realms ranging from the toy industry to consumer electronics, from household articles to space/satellite communication. Electronic engineering covers subfields such as analog & digital electronics, embedded systems and power-electronics. Electronics engineering deals with design and implementation of various applications, be it from telecommunication, or automobile, or production, or bio-medical, the list is endless.

SLRTCE has spacious and well-ventilated classrooms with fully equipped laboratories and a huge Central Library. The institute has a fully-fledged Placement Cell with 100% Placement Assistance. The Incubation Centre, 'Vyavasay Abhyas Niketan', provides opportunities for students to work on various funded projects. The Entrepreneurship Cell (E-Cell), engages students in Group Discussions, Workshops, Presentations and participation at various events, which helps build their confidence and enhance their personality as budding entrepreneurs.

Value added training sessions help students as well as teachers to hone pertinent skills in all domains. Teachers of every Department are encouraged to participate in Workshops at various Institutes and also to organize STTPs, Seminars and Activities throughout the year at SLRTCE.

Besides the regular lecture method, teachers adopt learner centric techniques to involve students actively through Course Networking and NPTEL Courses. The mentoring system, Peer Learning, Group Discussion, Case Studies, Project Reports and Quizzes also form an integral part of the teaching methodology.

Courses Offered

Undergraduate Courses	Annual Intake (UG)
Electronics and Telecommunication Engineering (EXTC)	60
Computer Engineering (CMPN)	240
Mechanical Engineering (MECH)	30
Electronics and Computer Science Engineering	120
Civil Engineering (CIVIL)	30
Information Technology (IT)	240
Post- Graduate Courses	Annual Intake (PG)
Electronics and Telecommunication Engineering (EXTC)	12
Computer Engineering(CMPN)	12

Program Educational Objectives

- To produce Electronics & Telecommunication engineers, having strong theoretical foundation, good design experience and exposure to research and development.
- To produce researcher who have clear thinking, articulation and interest to carry out theoretical and/or applied research resulting in significant advancement in the field of specialization.

- To develop an ability to identify, formulate and solve electronics and telecommunication engineering problems in the latest technology.
- To develop the ability among students to synthesize data and technical concepts from applications to product design.

Events

A session on **Alumni Talk on "AI and IT Industry"** was conducted for all the EXTC students on 31st July 2025 from 2:45pm – 3:45 pm. The session was conducted by **Ms. Namrata Ravat**. The seminar includes Key steps to ace technical and HR interviews, including resume preparation and communication skills. Insights into emerging technologies such as AI-driven solutions, cloud computing, and automation. Career pathways and industry expectations for fresh graduates. Understanding industry expectations and the importance of problem-solving and adaptability successfully provided students with valuable insights into open-source hardware, software, and IoT applications. Participants gained hands-on experience with Arduino and cloud integration, learning how to transform ideas into real-world products.



An **Industry visit to Automation Expo 2025, Bombay Exhibition Center, Goregaon** was organized for TE EXTC students on **14th August 2025 at 10am** **alongwith faculty member** Mrs Menka Singh

and Ms. Maheshwari Marne. This visit has a given a brief idea to students about the pace

at which the world around them is progressing. They are now well versed with this “hi-tech” era. Automation Expo 2023 has fetched information from all aspects of technology in bulk. Not only in technical terms but a clue about companies and set-ups involved in making our lives easier through their inventions, was known to them. The visit provided a platform for participant’s to connect with professionals, entrepreneurs, and researchers working in the field of innovation and technology transfer. This networking opportunity can lead to potential collaborations and partnerships in the future.



A seminar on **“Recent Trends-Android App Development using Kotlin”** was conducted by EXTC department on 12th Septmeber 2025 for all the TE students in Lab 410. The speaker for the event was Mr. Roshan Chaturvedi, Founder of Just Academy Software Training Institute. The Students were able to design and develop functional Android applications using Kotlin in Android Studio.

They were also able to demonstrate the ability to implement user interfaces, event handling, and data management within mobile applications and capable of deploying and publishing Android applications with optimized performance and user experience



An informative session was conducted by **F & O Surveyors Pvt. Ltd** on **16th September, 2025** from 3:30-4:30pm for EXTC students, the students gained valuable insights into the real-world applications and importance of land surveying in the civil engineering field. The speaker, **Mr. Omkar Bambardekar**, who is himself an engineer and a successful entrepreneur, explained how land surveys form the foundation of every major construction project, including roadways, real estate developments, urban planning, and industrial layouts.

The session introduced various modern surveying techniques such as Drone Mapping, DGPS Survey, Contour and Elevation Survey, Interior Designing Survey, and others. The use of advanced technology in surveying was highlighted as essential for achieving high accuracy, efficiency, and faster results, as well as for preparing layouts, marking boundaries, and analyzing land for safe and effective construction.



A Workshop on STM-32 and Arduino boards was organized by IETE student forum in collaboration with E-Yantra by the BE EXTC students for TE EXTC. The Speakers for the sessions were **Mr. Gautam Shukla, Mr. Jagdish Chaudhary, Mr. Abhishek Shukla**. The session introduced participants to the fundamentals of STM32 architecture and offered hands-on experience in programming and application development. Students actively engaged in practical exercises, gaining valuable exposure to embedded systems. It was a fantastic opportunity to learn directly from immediate seniors and dive into the world of STM32. The workshop provided participants with: A clear understanding of STM32 microcontroller architecture. Practical exposure to development tools and coding techniques. Skills in peripheral interfacing and debugging methods. Experience in developing a simple embedded project, reinforcing learning through application.



The session on **“Mobile Technology – System Architecture of 5G, Radio Technology Evolution, and Network Architecture Evolution (First Generation – 1G)”** was conducted by **Dr. Vinod Mahajan**, Assistant General Manager (Telecom L/A), Bharat Sanchar Nigam Limited, Pune on Friday, 26th September 2025 from 3pm to 5pm. The session focused on the evolution of mobile communication systems from the first generation (1G) to the fifth generation (5G). It began with an introduction to 1G analog systems, explaining their basic

architecture, limited capacity, and voice-only communication. The discussion then traced the advancement through 2G, 3G, and 4G, highlighting improvements such as digital modulation, data services, and broadband connectivity.

Students explored how network architecture evolved from simple circuit-switched networks (1G) to flexible, software-defined, and virtualized networks in 5G. Real-world applications such as IoT, autonomous vehicles, smart healthcare, and Industry 4.0 were discussed to demonstrate the impact of modern mobile technology. By the end of the session, students gained a comprehensive understanding of the transition from traditional analog communication to ultra-fast, low-latency, and intelligent 5G systems, along with insights into future trends in mobile technology.



An Industrial Visit to “**Drone Expo**” **Bombay Exhibition Centre, NESCO** was **organized for SE EXTC students** 27th September 2025. Many Companies, Industries and School students showcased their ideas and solutions. The expo served as a common platform for all the startups to connect with the market leaders and attract them for potential investments. The exhibitors not only showcased their solutions/products but also explained the working and potential of their products. Participants gained insights into the latest drone technology advancements, emerging use cases,

innovative applications in agriculture, construction, film-making, environmental monitoring, search and rescue, surveying and more. Overall the visit to expo was knowledgeable and innovative.

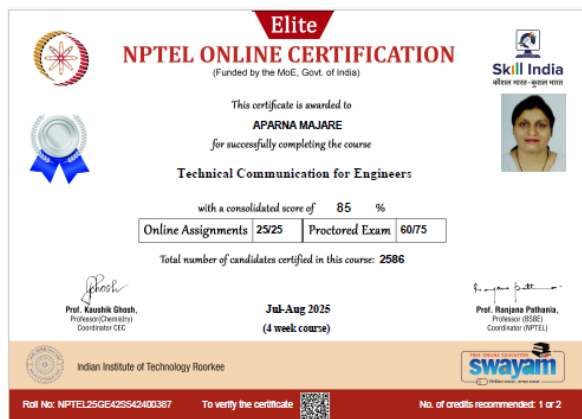


An **Industrial Visit** was organized by the **Department of Electronics and Telecommunication Engineering** for all the **BE students to TestriQ Technologies Pvt. Ltd., Mumbai** on **3rd October 2025**, along with faculties Dr. Sweta Padman and Mrs. Aboli Moharil. The visit was conducted to bridge the gap between theoretical knowledge and practical industry applications.

TestriQ Technologies is a leading software testing and quality assurance company that provides services in automation testing, mobile application testing, and performance testing. During the visit, students interacted with industry professionals and gained insights into real-world software testing methodologies, tools, and project workflows



Mrs. Aparna Majare Assistant Professor from EXTC department successfully completed NPTEL online certification in Technical Communication for Engineers.



Mrs. Namrata Kulkarni, Assistant Professor EXTC department successfully completed and topped in the NPTEL course in Technical Communication for Engineers with a score of 90%.

