

BHAGWAN PARSHURAM INSTITUTE OF TECHNOLOGY

ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

ISSUE-1 (VARTAPATRAM) 2025-2026

“It’s better to be approximately right than precisely wrong.”

DEPARTMENT'S VISION

To emerge as a center of excellence producing globally competent and morally sound professionals in the field of ELECTRONICS AND COMMUNICATION ENGINEERING who will practice commitment to their professions and dedicate themselves to the service of mankind.

DEPARTMENT'S MISSION

To Develop state-of-the-art laboratories providing relevant practical inputs to students.

To provide strong knowledge base to students in the area of Electronics and Communication Engineering, and to train them as per requirement of industries and research organizations. To facilitate Institute Industry Interaction to the benefit of stake holders and to motivate teachers for continuous improvement of their academic standards

PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

Graduate will have the fundamental and advance knowledge in Mathematics, Science, Electronics and Communication Engineering and design methodologies to successfully accomplish their professional career in industry as an Engineer, theoretically practically, in the field of Electronics and Communication Engineering, or become an entrepreneur. Graduate will have strong fundamental knowledge in specialized areas of Electronics and Communication Engineering to contribute towards research and developments through paper publications, projects and pursue higher studies in their specialized fields. Graduate shall learn all interpersonal skills and inculcate sense of social responsibilities and environmental concerns so as to make them good leader and citizens.

PROGRAM SPECIFIC OUTCOMES(PSOs)

Students will have proficiency in grasping fundamental principles of Electronics and Communication Engineering and effectively applying them across diverse domains, including Semiconductors, Communications, Signal Processing, Antennas, Networking, VLSI, Embedded Systems, and becoming adept in the latest tools and methodologies employed in both research and industry.

Student will foster critical thinking to evaluate engineering issues pertinent to Electronics and Communication Engineering through the cultivation of profound expertise and skills in the realms of fundamental sciences, engineering mathematics, and core engineering principles, enabling the resolution of intricate engineering dilemmas. Student will be able to acquire the skill to conduct independent research, seek innovative solutions, and make contributions to the progress of knowledge in specialized areas of Electronics and Communication Engineering. Adhere to ethical principles in engineering practice, research, and innovation, while exemplifying a steadfast dedication to integrity, social responsibility, and sustainable development

PILLARS OF BPIT

STALWARTS

Shri Vinod Vats(Chairman)
Padma Shree Shri Surender Sharma (Vice-President)
Shri Ram Babu Sharma (General Secretary)
Shri Shambhu Sharma (Secretary)
Shri Sanjeev Sharma (Treasurer)
Prof. Payal Pahwa (Principal)
Shri S N Jha (IAS Retd.) (Director Admin)
Prof. Y D Gaur (Exec. Director)
Shri M S Vats (OSD)

CHIEF-EDITOR

Prof. Rajiv Sharma (HOD , ECE)

EDITOR

Ms. Prachi Kaushik (Asst. Prof. ,ECE)

STUDENT EDITORS

Himanshu sharma(3rd year,ECE)
Gyanvi(3rd year,ECE)



DEPARTMENT & ITS SOCIETIES

With technology becoming increasingly integrated into every aspect of society the college provides education in the field of Electronics. ELECTRONIC AND COMMUNICATION ENGINEERING department has been dedicated to research and teaching. It provides a conducive environment where students are prepared to innovate, solve problems. The department coordinates career opportunities for its students with industry and government agencies.

IEEE BPIT



IEEE-BPIT is a technical society which aims to spread technical awareness amongst Students. It helps them to develop their technical skills, to give a professional outlook, and to encourage them to participate in various technical competitions held in various Universities.

Institute of Electrical and Electronics Engineers (IEEE) BPIT is a professional organization dedicated to advancing technology for the benefit of students. IEEE BPIT has several objectives, including :



Advancing technology: IEEE BPIT aims to promote the development and advancement of technology where it's student members can work in any field and learn.



IIC

Ministry Of Education (MoE), Govt. Of India Has Established 'MoE's Innovation Cell (MIC)' To Systematically Foster The Culture Of Innovation Among All Higher Education Institutions (HEIs). The Primary Mandate Of MIC Is To Encourage, Inspire And Nurture Young Students By Supporting Them To Work With New Ideas And Transform Them Into Prototypes While They Are Informative Years. MIC Has Envisioned Encouraging Creation Of 'Institution's Innovation Council (IICs) Across Selected HEIs.



ELECTRONAUTS

ELECTRONAUTS is a student-led electronics society established to foster enthusiasm and passion for electronics among its members. The Society aim to cultivate a vibrant community where students can engage in open dialogue and exploration of electronic concepts beyond the confines of the standard curriculum, aligning with the evolving demands of the modern era. Mission:

- To provide exposure to the booming technologies in the field of electronics
- To invoke curiosity among the students.



HIGHLIGHTS OF DEPARTMENT

Dr. Komal Bhagat published a paper titled "An innovative conditional self-attention generative adversarial network with fennec fox optimization approach for resource allocation in cognitive radio wireless communication systems" in Expert Systems with Applications, Elsevier, Vol 273, May 2025.

Dr. Ritu Rani published a paper titled "Enhancing liver disease diagnosis with hybrid SMOTE-ENN balanced machine learning models- an empirical analysis of Indian patient liver disease datasets" in Frontiers in Medicine, Vol 12, May 2025.

Ms. Prachi Kaushik & Dr. Komal Bhagat published a research paper titled "Cough Signal Processing for Classification & Early Detection of COVID-19 Using Deep Learning Integrated Approach" at the 6th International Conference on Data Analytics & Management (ICDAM-2025), held from 13th to 15th June 2025, under the theme "Data Analytics with Computer Networks." The paper will be published in Springer's LNNS Series.

Dr. Akash Rathee published a research paper titled "Perturbation-based classical and quantum field theoretic approach for parameter estimation of Kerr nonlinear medium" on 05 July 2025 in The European Physical Journal Plus, vol. 140, 634 (2025) (Springer Nature Link), SCIE-Scopus Journal.

Ms. Prachi Kaushik & Dr. Komal Bhagat, along with Rahul Baliyan (ECE 2021-25), authored a book chapter, "Eco-Conscious Sensor Networks and Smart Record Management for Sustainable Patient Monitoring," in the book titled "Responsible Innovation in Smart Healthcare" published by IGI Global, July 2025.



STUDENT ACHIEVEMENTS

Rohit Rawat and Dr. Tanima Gosh authored & presented a paper titled Sustainable Development in Medical Image Enhancement

Ridhima Sharma and Sakshi Aggarwal, guided by Dr. Sandeep Sharma and Mr. Risheek Kumar presented their paper "Base Station-Optimized MIMO Antenna Using DGS-SRR-CSRR Hybridization for Wideband High-Isolation 5G Operation" at IEEE ICCNT 2025, showcasing innovations in 5G antenna design.

Bhavya Ahuja and Shriya Pandey, under the mentorship of Mr. Risheek Kumar and Dr. Sandeep Sharma, presented "Comparative Analysis of CNN & Hybrid CNN-LSTM Models for Spectrum Sensing of 5G Signals in Cognitive Radio Networks" at IEEE ICCNT 2025, held from July 6-8, 2025.

Echoes of glory



We are proud to welcome Amon Sadhu as the newly appointed Threus Campus Ambassador for Bhagwan Parshuram Institute of Technology (BPIT), GGSIPU



Yasaswini Vangara and Mohit Sharma from ECE (2021-25 Batch) made it to the Top 15 in the global "Ink Your Ideas" Blog Writing Competition



The quartet of Shivam Bhardwaj, Diksha Gangwani, Shikha Kumari and Deepak Kumar from ECE-A, Second year, Bhagwan Parshuram Institute of Technology secured a place amongst the Top 10 at Delhi Industrial Ideathon

Placement corner



Yash Bansal placed in JUSPAY with a package of 21 LPA



Kaustubh Kumar Singh Placed in ZS Associates with a package of 12.45 LPA



Manya Goel placed in ZS Associates with a package of 12.45 LPA



Karan Pahwa placed in ZS Associates with a package of 12.45 LPA

DEPARTMENT EVENTS



ROLE OF AI IN ANTENNA DESIGN



PYTHON AND MACHINE LEARNING