

"I have no special talent, I am only passionately curious"
 – Albert Einstein

DEPARTMENT'S VISSION

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 profession 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 a strong knowledge base to students in the area of Electronics & Communication Engineering and to train them as per requirements of industries and research organizations.
- To facilitate institute industry interaction to the benefit of stakeholders and to motivate teachers for continuous improvement of their academic standards.

PROGRAM EDUCATIONAL OBJECTIVES(PEO)

- 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 leaders and citizens.

PROGRAM SPECIFIC OUTCOMES(PSO)

- 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

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- Padma Shree Shri Surender Sharma (Vice-President)
- Shri Ram Babu Sharma (General Secretary)
- Shri Shambhu Sharma (Secretary)
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 Nikita Raturi(2nd year, ECE)
 Jyoti (2nd year, ECE)

Dear Students
 This newsletter serves as a window into the captivating world of technical education at Bhagwan Parshuram Institute of Technology, where growth, exploration and success abound. In our ongoing pursuit of stronger connections, I am reaching out to you once again moving towards renewing our commitment to working together for the well being and success of our students. Welcome to another edition of Vartapatram that encapsulates the enthusiasm and energy buzzing through our ECE department as we embark on a fresh chapter of learning, discovery and shared accomplishments.
 From HOD Desk



Prof. Rajiv Sharma (HOD, ECE)

DEPARTMENTAL EVENTS

The collage features several event posters and photographs. Key events include:

- CYBERAAN CYBER SECURITY SEMINAR:** Organized by the Department of Electrical & Electronic Engg. and Department of Electronics & Communication Engg. on 29th Feb, 2024.
- ANSYS WORKSHOP:** A 3-Day workshop on "Fundamentals of Antenna Design and Simulation of Advanced Antenna Structures" using Ansys HFSS software, held from 03-05 April 2024.
- MADE EASY SEMINAR:** A seminar on career opportunities and how to crack competitive exams, held on 16th March, 2024.
- ICT BASED SHORT TERM COURSE (ONE WEEK):** Titled "5G AND BEYOND (ICT-160)", held from 5.02.2024 to 9.02.2024.

 Other photos show students attending these events, participating in group discussions, and receiving certificates.

HIGHLIGHTS OF THE DEPARTMENT

STUDENT ACHIEVEMENTS

- Our ECE students bagged 1st runner up position in 24 hrs hackathon held at IIMT Greater Noida with theme 'open innovation'. out of 250 participants, team BitBlockers **Abhay Chouhan, Shivansh Tomar** and **Sanchita** cash price of 8k and an internship opportunity at DoDev.
- The book chapter titled, "Advancements in Security Technologies for Smart Cities: A Comprehensive Overview" by **Lokesh Singh**, ECE student of batch 2021-2025, has been accepted for publication in the "EXPLAINABLE IOT APPLICATION-A DEMYSTIFICATION" Springer ISEM series.
- Utkarsh**, one of our students of ECE from the 2020-2024 batches has bagged the 1st prize in Indian Solo Singing in Anugoonj'2024.
- One of our ECE students, **Sanchita** of batch 2022-2026 participated as BPIT's Hackathon team "Vendetta" in the Hackathon competition held in Jodhpur has won the second prize with a cash prize of Rs. 50,000.
- Randhir Shah**, one of our students of ECE from the 2020-2024 batches has been selected as an intern in M/s Alphadroid Ltd. as a Robotics engineer with a stipend of 8LPA.
- 7 students of ECE final year (2020-2024 batch) have been placed in various renowned companies like *Pristyn Care, Tejas Networks, Bharti Airtel, Newgen, Hike, Jellyfish Technologies, etc.* with the highest package of 10 LPA
- Our ECE students secured 2nd position in DTU *hackon Enterpenureship Startups event*.(out of 88 team all over from India)Team Ezyme **Abhinesh Kumar & Aastha Sharma** Cash price - 10k + 10 lakh* funding commitment from (1 - TBI NIDHI DST PROJECT)



FACULTY OUTREACH & RECOGNITIONS

- Ms. Usha Sharma** published an SCI journal paper titled, "Shorting Pins Based Compact Dipole Multiband MIMO Antenna with Integrated Pattern Diversity For Modern Wireless Applications", AEU-International Journal of Electronics Communication. (Impact Factor:3.16) Volume 176, 2024, 155162, ISSN 1434-8411,
- Book chapter titled, "Advancements in Security Technologies for Smart Cities: A Comprehensive Overview" by **Dr. Megha Agarwal** with B.Tech. ECE student, Lokesh Singh has been accepted for publication in the "EXPLAINABLE IOT APPLICATION-A DEMYSTIFICATION" Springer ISEM series.
- The manuscript titled, "Quantum and Classical Simulation of Core Shell-based Junction less Field Effect Transistor with Digital Application" by **Prof. Rajiv Sharma** has been accepted in the IOP Science Journal having an impact factor of 1.7.
- Paper titled, "Utilization of Advanced Encryption Standard (AES) Algorithm for Enhanced Security in 4G LTE Serial Communication", with paper ID 24029, by **Prof. Rajiv Sharma** has been accepted for presentation at the International Conference on Sustainable Development (ICSD-2024) to be held in April 2024.
- Dr. Pavika Sharma** published a book chapter on "Reinforcement Learning for Automated Medical Diagnosis and Dynamic Clinical Regimes" In the Handbook of Research on Artificial Intelligence and Soft Computing Techniques in Personalized Healthcare Services, pp. 169-187, Taylor and Francis Group, 2 Jan 2024.
- Dr. Pavika Sharma** served as Reviewer for the International Journal of Computational Vision and Robotics, INDERSCIENCE Publishers, Feb 2024 (Scopus)
- The paper titled, "Review paper for Methodologies for Deep Learning-Based Waveform Segmentation", by **Dr. Pavika Sharma**, with B Tech (ECE) students has been accepted for presentation at the International Conference on Sustainable Development (ICSD-2024) to be held in April 2024.
- Dr. Jayant Bhardwaj** published a research paper with title, "Implementation constraints and Efficient-Hardware for the Realization of an Embedded System for IOT Applications" in JETIR Journal (UGC approved) in 2024.
- The paper titled, "Automatic Irrigation System with Remote Monitoring Facility" by **Dr. Akash Rathee** has been published in International Research Journal of Modernization in Engineering Technology and Science, vol.: 06/issue: 01/ January-2024, e-ISSN : 2582-5208.
- Dr. Pawan Sharma** published a research paper with title, "Implementation constraints and Efficient-Hardware for the Realization of an Embedded System for IOT Applications" in JETIR Journal (UGC approved) in 2024.



PLACEMENT CORNER

We are proud to share that **Kashstubb Pandey, Bhavya Sharma** and **Abhishek Kumar**, BPIT(ECE(2019-23)) got Placement under COE of VLSI & Embedded and PinE Training Academy of VLSI & Embedded.

"Congratulations, and we extend our sincerest wishes for success on your journey ahead."

Placement under COE of VLSI & Embedded in collaboration with department of ECE, BPIT, New Delhi (Batch 2019-2023) and PinE Training Academy of VLSI & Embedded

 Kashstubb Pandey (PD) (00520807320) Vervesemi	 Bhavya Sharma (ASIC) (10220807819) Vervesemi
 Abhishek Kumar (DV) (00220807320) Synopsis	

PLACEMENT PARTNER



ACADEMIC EXCELLENCE



We are proud to share that **Krishan Kumar Dadhich**, BPIT(ECE(2019-23)) bagged Gold Medal(Academics) with CGPA 9.6 in GGSIPU.

"Congratulations, and we extend our sincerest wishes for success on your journey ahead."

spoken-tutorial

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