

HOW THIS PROGRAMME BENEFITS YOU:

- **Master Future Technologies:** Build expertise across electronics, semiconductors, communication, embedded systems and AI.
- **Connect Hardware with Intelligence:** Develop smart systems that integrate electronics, software, data and AI.
- **Solve Global Challenges:** Apply engineering knowledge to create sustainable solutions for real-world needs.
- **Build Global Career Readiness:** Prepare for high-impact opportunities in Semiconductors, 6G, Robotics, IoT, AI and R&D.
- **Innovate for Global Impact:** Develop research, entrepreneurship, problem-solving and leadership capabilities.

CAREER PATHWAYS:

 ELECTRONICS & CIRCUITS	• Analog / Digital Design Engineer • Electronics Engineer • Test & Validation Engineer	• R&D Engineer • Application Engineer • Product Development Engineer
 COMMUNICATION & NETWORKS	• Wireless Engineer • Network Engineer • Telecom Engineer	• RF Engineer • Satellite Communication Engineer • 5G / 6G Solutions Engineer
 COMPUTER VISION & IMAGE PROCESSING	• Computer Vision Engineer • Image Processing Engineer • Vision Algorithm Developer	• AI Vision Engineer • Medical Imaging Engineer • Autonomous Systems Engineer
 VLSI & SEMICONDUCTOR TECHNOLOGY	• VLSI Design Engineer • IC Layout Engineer • Verification Engineer	• Physical Design Engineer • Semiconductor Process Engineer • EDA Tool Engineer
 EMBEDDED SYSTEMS & IoT	• Embedded Systems Engineer • Firmware Engineer • IoT Solutions Engineer	• Hardware – Software Integration Engineer • Automation Engineer • Robotics Engineer
 AI & INTELLIGENT SYSTEMS	• AI / Machine Learning Engineer • Data Scientist • Deep Learning Engineer	• AI Research Engineer • Intelligent Systems Engineer • Robotics & Automation Engineer

OUR PAST RECRUITERS:

MOSCHIP | INFOSYS | AMAZON |
MEDHA SERVO DRIVES | CAPGEMINI | ACCENTURE | ZOHO |
LTIMINDTREE | QUALCOMM | HYUNDAI MOBIS | IBM | COGNIZANT
WIPRO | TECH MAHINDRA | TCS | TESSOLVE SEMICONDUCTORS |
CADENCE | CISCO | DELOITTE | SYNOPSYS

ROLES OF DISTINGUISHED GVP ALUMNI

- Scientists at NSTL; DRDO; ISRO; BARC
- Design Engineers at CADENCE Design Systems; AMD
- Technical Leads at SAMSUNG R&D, Google
- IC Design Engineers at BROADCOM R&D
- Lead Hardware Security Researchers at INTEL USA
- R&D Engineer at SYNOPSYS
- Deputy Engineer at BEL
- Founder and CEO, MARS INNO India Pvt. Ltd.
- Signal Engineer at IRS, Govt. of India
- Faculty and Researchers at leading institutions like IIT-Delhi, IIT-Madras, IIT-Hyderabad, IIT-Mandi, IIITDM-Kanchipuram, IIT-Guwahati, IIT-Rourkela

GVP - Estd.1988



GVPIHLR - Estd.2026

GAYATRI VIDYA PARISHAD INSTITUTE OF HIGHER LEARNING AND RESEARCH

(Deemed to be University under Distinct Category
under Section 3 of the UGC Act, 1956)

Kommadi, Madhurawada, Visakhapatnam – 530 048, Andhra Pradesh

School of Electrical and Electronics Engineering Department of Electronics and Communication Engineering B.Tech. (Electronics and Communication Engineering) (GVPIHLR-Main Campus, Kommadi) Brochure

Vision : The vision of Electronics and Communication Engineering Department is to be in the lead to create and develop professional and intellectual human capital in electronics and communication engineering and applications in order to foster the technological, economic and social enrichment of the state and the nation and to contribute to global village connectivity

Mission : To play professional role to create, develop, organize and manage complex technologies and products, contribute to the betterment of society and evolve better quality of living in a world increasingly influenced by scientific and technological innovation.

To provide students of E & C Engineering an environment of academic freedom that will ensure the exchange of ideas and the dissemination of knowledge in this discipline.

To recognize as a place that encourages research excellence and diversity in thought and endeavour in multidisciplinary applications.

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ABOUT GVPIHLR:

Gayatri Vidya Parishad (GVP) is established in 1988 with a service motive, committed to develop education in India. The basic aim is

“to promote, establish, maintain and assist or aid in maintaining educational and other institutions with a view to impart education in all branches in general and in Advanced Technology, Management, Education and Science (including Healthcare) in particular and thus to facilitate securing gainful employment for the youth of the country.”

In line with this and in tune with National Educational Policy 2020, the GVP established Gayatri Vidya Parishad Institute of Higher Learning (GVPIHLR), a distinct university that promotes integration of Multidisciplinary, Interdisciplinary and Transdisciplinary fields. It enables the blend of ancient wisdom and traditional values with modern science and technology for the health and well-being of the society among the youth.

GVPIHLR will provide students with an integrative learning experience that transcends conventional disciplinary boundaries and offers abundant opportunities for academic exploration, innovation, and holistic development. It will foster multidisciplinary and transdisciplinary education and research through flexible curricular structures that enable students to creatively combine diverse disciplinary areas of study and pursue emerging areas of knowledge in multidisciplinary contexts.

Through this integrated academic ecosystem, GVPIHLR enable learners attain critical thinking, creativity, innovation, collaboration, and problem-solving, while drawing upon the strengths of diverse disciplines to address complex societal challenges and contribute meaningfully to the advancement of knowledge and the well-being of society.

SCHOOLS UNDER GVPIHLR:

- School of Arts and Humanities
- School of Chemical, Mechanical and Civil Engg.
- School of Electrical and Electronics Engg.
- School of Commerce and Management
- School of Computer Science and Engg.
- School of Sciences

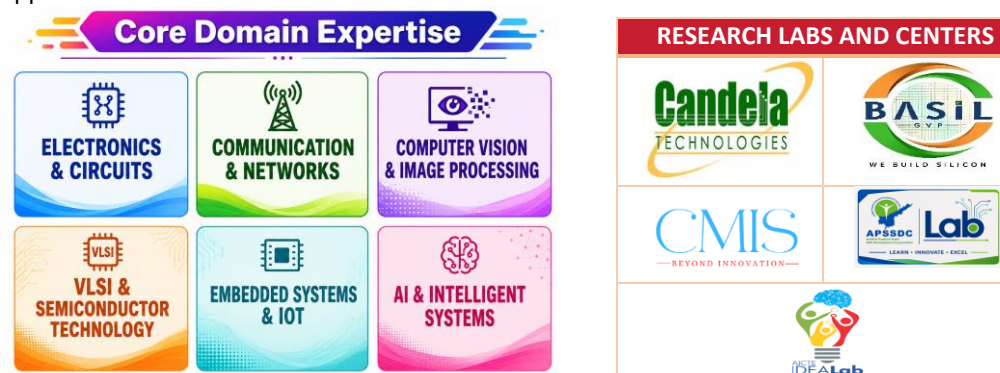
UG PROGRAMS UNDER SCHOOL OF ELECTRICAL AND ELECTRONICS ENGINEERING:

- B.Tech. in Electronics and Communications
- B.Tech. in Electronics and Communications (VLSI Design & Technology)
- B.Tech. in Electrical and Electronics
- B.Tech. in Electrical and Electronics (Electric Vehicles)

B.TECH. (ECE) AT A GLANCE

WHY ECE AT GVPIHL?

Electronics and Communication Engineering combines electronics, communication, and computing to design innovative technologies that connect people, devices, and the world. It also integrates AI to develop intelligent, autonomous, and future-ready systems for real-world applications.



Engineering the Intelligent Technologies of Tomorrow

PROGRAMME OBJECTIVES

- **Build Strong ECE Foundations** – Develop expertise in electronics, circuits, communication, and signal processing.
- **Design Innovative ECE Solutions** – Apply ECE principles to solve real-world engineering challenges.
- **Develop Industry & Research Readiness** – Prepare for career and research in Electronics, Communications, VLSI, and Embedded systems.
- **Promote Sustainable Electronics** – Develop energy-efficient, reliable, and sustainable electronic systems.
- **Develop Professional & Leadership Skills** – Foster teamwork, communication, innovation, ethics, and leadership.

PROGRAMME FEATURES

• Professional Core	• Open Electives	• Industry-Oriented Training
• Core Electives	• MOOCs / SWAYAM	• Internships & Industrial Exposure
• Skill Courses	• Honors / Minors	• AI & Emerging Technologies
• Multiple Entry / Multiple Exit	• Choice Based Credit System (CBCS)	

CORE LEARNING AREAS: Digital & Analog System Development • Communication System Design • Signal & Image Analysis • VLSI Design • Embedded Programming • RF & Antenna Design • AI-integration to ECE Applications

CORE SKILLS: Electronic Circuit Simulation • PCB Design • FPGA & HDL Design • Embedded C/C++ Programming • Python Programming • AI/ML Model Implementation

MODERN TOOLS & COMPUTATIONAL EXPOSURE: MultiSim • Cadence • EDA Tools • HFSS • Synopsys • eSIM • GNU Radio • NS-3 • CISCO Packet Tracer • KEIL software • CAD • Solidworks • OrcaSlicer • Ultimaker Cura

LEARNING BEYOND THE CLASSROOM: Hackathons & Design Challenges • Technical Clubs like VLSI Club, AI Build Club, Communications Club • Student Chapters like IEEE, IETE • Conferences