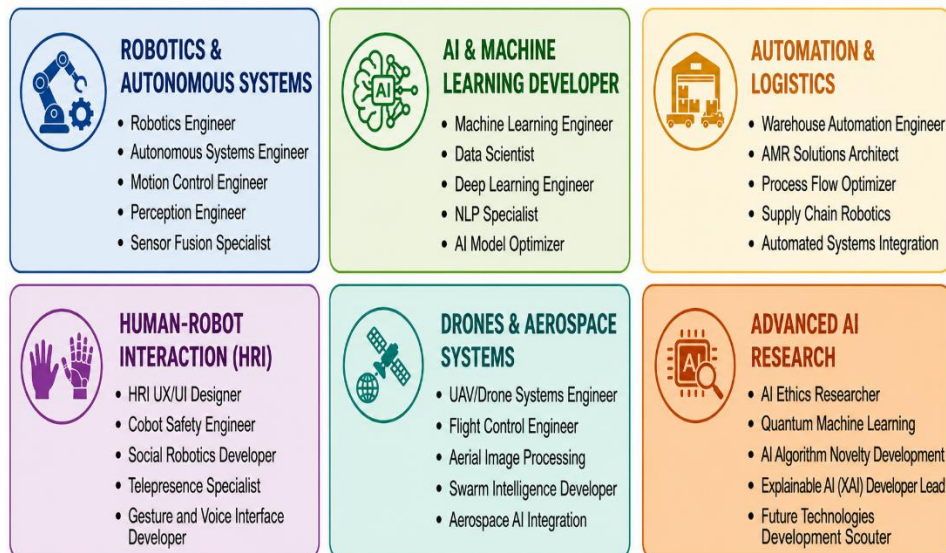


HOW THIS PROGRAMME BENEFITS YOU:

- Builds Strong Foundations in Robotics and AI
- Connects Technology with Real-World Industry
- Opens Doors to Diverse Career Opportunities
- Develops Modern Technical and Computational Skills
- Creates Opportunities for Innovation and Entrepreneurship

CAREER PATHWAYS:



OUR PAST RECRUITERS:

- Pinnacle Reliability
- Coramandel
- LTI Mindtree
- TCS, Infosys
- Thermal Systems
- Steel Strips Wheels Ltd
- Control S Data Center
- Hontrel Technologies
- Clean & Control Pvt Ltd
- Dynolt
- MEIL
- OIT EV Powertech

ROLES OF DISTINGUISHED GVP ALUMNI

- Product Developers, Design Engineers
- Scientists and Researchers
- Technical Advisors
- Automation and Process Engineers
- Senior Industry Professionals
- Faculty and Researchers at leading institutions

GVP - Estd.1988



GVPIHLR - Estd.2021

GAYATRI VIDYA PARISHAD INSTITUTE OF HIGHER LEARNING AND RESEARCH

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

Kommati, Madhurawada, Visakhapatnam – 530 048, Andhra Pradesh

School of Chemical, Mechanical and Civil Engineering

Department of Mechanical Engineering

B.Tech. in Mechanical Engineering (Robotics & AI) (GVPIHLR-Main Campus, Kommati) Brochure

Vision

To become a sought after center for higher learning and application in the field of Mechanical Engineering.

Mission

- To produce competent and responsible mechanical engineering graduates and post graduates by imparting quality and value based education.
- To prepare students for professional career and guide them for entrepreneurship and higher studies including research.
- To motivate the young minds towards services beneficial to the society through their academic and professional activities.

Contact details:

Name	: Dr. Sanjay K Darvekar	Dr. K V Vara Lakshmi
Mobile	: +91 7507801182	+91 8500220436
Email	: sanjay.gvpihlr@gmail.com	kvvaralakshmi.gvpihlr@gmail.com
Website	:	

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

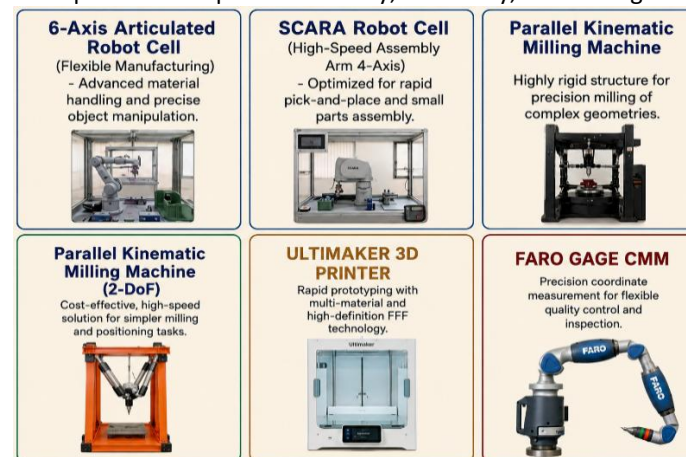
UG PROGRAMS UNDER SCHOOL OF CHEMICAL, MECHANICAL AND CIVIL ENGINEERING:

- B.Tech. in Chemical Engineering
- B.Tech. in Civil Engineering
- B.Tech. in Civil Engineering (Structural Engineering)
- B.Tech. in Civil Engineering (Construction Technology)
- B.Tech. in Mechanical Engineering
- B.Tech. in Mechanical Engineering (Robotics & AI)

B.TECH. (ROBOTICS & AI) AT A GLANCE

WHY ROBOTICS & AI?

Robotics and Artificial Intelligence combines engineering, computer science, mathematics, and intelligent technologies to design, develop, and control autonomous machines and smart systems that can perform complex tasks safely, efficiently, and intelligently.



PROGRAMME OBJECTIVES

- Pursue successful careers or higher studies in mechanical engineering with robotics / automation as specialization through their strong foundation in mathematics, science and engineering.
- Analyze and design appropriate solutions for socially and industry relevant problems by using current engineering techniques and tools.
- Engage in professional development through effective communication, teamwork and lifelong learning.

PROGRAMME FEATURES

- Professional Core
- Core Electives
- Skill Courses
- Multiple Entry / Multiple Exit
- Open Electives
- MOOCs / SWAYAM
- Honors / Minors
- Choice Based Credit System (CBCS)

CORE LEARNING AREAS / CORE SKILLS

Autonomous Navigation & SLAM • Robot Kinematics & Dynamics • Computer Vision • Machine Learning • Motion Planning & Control Systems • Embedded Systems & ROS

CORE SKILLS: Modelling, Simulation, Robotics Programming, Artificial Intelligence & Machine Learning, Computer Vision, Sensor Fusion, Motion Planning, Control Systems, Autonomous Systems, ROS/ROS2, Digital Twin Technology, and Embedded Systems.

MODERN TOOLS & COMPUTATIONAL EXPOSURE

ROS/ROS2 • MATLAB/Simulink • Robo Analyzer • Gazebo • Python • CATIA • ANSYS

LEARNING BEYOND THE CLASSROOM

Laboratory Training • Projects • Industrial Visits Internships • Workshops • Guest Lectures