

HOW THIS PROGRAMME BENEFITS YOU:

- Develops strong fundamentals and practical engineering skills
- Provides hands-on exposure to CAD/CAE, simulation and advanced manufacturing
- Builds expertise in Robotics, Automation and Industry 4.0
- Develops skills in AI, Machine Learning and computational engineering
- Enhances problem-solving, design and innovation capabilities
- Provides exposure to industry-oriented tools and technologies
- Prepares students for higher studies, research and diverse career opportunities
- Improves employability and readiness for modern engineering industries

CAREER PATHWAYS:

- **Design & Product Development:** Mechanical Design Engineer, Product Design Engineer, CAD/CAE Engineer
- **Manufacturing & Production:** Production Engineer, Manufacturing Engineer, Process Engineer
- **Automotive & EV:** Automotive Engineer, Vehicle Design Engineer, EV Engineer
- **Robotics & Automation:** Robotics Engineer, Automation Engineer, Mechatronics Engineer
- **Thermal & Energy:** Thermal Engineer, HVAC Engineer, Energy Engineer
- **Aerospace & Defence:** Aerospace Design Engineer, Manufacturing Engineer, Defence Technology Engineer
- **Simulation & Analysis:** CAE Engineer, FEA Engineer, CFD Engineer, Simulation Engineer
- **Industry 4.0 & Smart Manufacturing:** Digital Manufacturing Engineer, Industrial Automation Engineer, Digital Twin Engineer
- **Materials & Advanced Manufacturing:** Materials Engineer, Additive Manufacturing Engineer, 3D Printing Specialist
- **Quality & Operations:** Quality Engineer, Production Planning Engineer, Operations Engineer
- **Research & Development:** R&D Engineer, Research Associate, Innovation Engineer
- **Software & Computational Engineering:** Engineering Simulation Specialist, MATLAB/CAE Specialist, AI/ML Engineer for Mechanical Applications
- **Higher Education & Research:** M.Tech./M.S., Ph.D., Teaching and Research Careers
- **Government & Public Sector:** Opportunities through UPSC, GATE, SSC, State PSCs and PSU recruitment

OUR PAST RECRUITERS:

- | | | | |
|---------------|----------------------|------------------|---------------------|
| ➤ Tata Steel | ➤ Omini Trucking | ➤ Hyundai Motors | ➤ Bosch |
| ➤ ONGC | ➤ Medha Servo Drives | ➤ JSW Steel | ➤ Mahindra Mahindra |
| ➤ Caterpillar | ➤ Sarda Metals | ➤ Kia Motors | ➤ Ashok Leyland |

ROLES OF DISTINGUISHED GVP ALUMNI

- Design & Engineering - Vistex INC, L&T, Pinnacle Reliability, Fujitec
- Automotive & Mobility - Hyundai Motors, TVS Motors, KIA Motors
- Manufacturing & Production- Medha Servo Drives, Dynolt
- Energy & Power – Indus towers, HPCL, NTPC, IOCL, Adani Power.
- Materials & Product Development – Essar Steel, Tata Steel, JSW Steel

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 Chemical, Mechanical and Civil Engineering

Department of Mechanical Engineering

B.Tech.(Mechanical Engineering)

(GVPIHLR-Main Campus, Kommadi)

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

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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 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. (MECHANICAL ENGINEERING) AT A GLANCE

WHY MECHANICAL ENGINEERING?

Mechanical Engineering combines mechanics, materials, thermal sciences, fluid mechanics, manufacturing and automation to design, analyse and develop efficient products, machines and industrial systems.



PROGRAMME OBJECTIVES:

- Pursue successful careers or higher studies in mechanical engineering through their strong foundation in mathematics, science and engineering.
- Analyze and design appropriate solutions for socially relevant problems by using current engineering techniques and tools.
- Engage in professional development through effective communication, team work 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 :

- Design Engineering • Thermal Engineering • Manufacturing Engineering
- Industrial & Production Engineering • Robotics & Automation

CORE SKILLS: Engineering Design, Modelling and Simulation, Automation and Robotics, Optimization, CAD/CAE, Materials Engineering, Industry 4.0.

MODERN TOOLS & COMPUTATIONAL EXPOSURE:

ANSYS, MATLAB, CATIA, SolidWorks, Hyper Mesh, COMSOL, AutoCAD, CFD, FEA, CAD/CAM, Robotics Simulation, 3D Printing, AI/ML

LEARNING BEYOND THE CLASSROOM:

- Projects • Industrial Visits • Internships • Workshops • Guest Lectures