



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 Sciences

(GVPIHLR-SOUTHEAST CAMPUS, Rushikonda)

Brochure

B.Sc. (Hons)- Computer Science and Artificial Intelligence

(A Four-Year Undergraduate Honors Program / Five-Year Integrated Program
with multiple entry and exit option)



University Vision

“Creating Human Excellence for
a better society through holistic
and multidisciplinary
education.”

University Mission

“Propelled by an unwavering
dedication to achieving human
excellence and contributing to a
better society through a holistic
and multidisciplinary approach
to education.”

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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

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

PROGRAMS UNDER SCHOOL OF SCIENCES

UNDERGRADUATE HONOURS PROGRAMS

- ✓ BCA (Hons)-Bachelor of Computer Applications
- ✓ B.Sc. (Hons.) Computer Science and Artificial Intelligence
- ✓ B.Sc. (Hons.) Embedded Electronics and Artificial Intelligence
- ✓ B.Sc. (Hons.) Statistics and Data Science
- ✓ B.Sc. (Hons.) Mathematics and Computer Science
- ✓ B.Sc. (Hons.) Quantum Computing and Artificial Intelligence
- ✓ B.Sc. (Hons.) Bioinformatics with Artificial Intelligence
- ✓ B.Sc. (Hons.) Statistics and Quantitative Methods
- ✓ B.Sc. (Hons.) Chemistry and Pharmaceutical Applications

POSTGRADUATE PROGRAMS

- ✓ MCA -Master of Computer Applications-
- ✓ M.Sc. (CS & AI) Master of Science in Computer Science and Artificial Intelligence-
- ✓ M.Sc. (OC-DD) Master of Science in Organic Chemistry - Drug Design & Synthesis

VISION



Empower young generation by providing latest industrial trends by industry experts, which will enlighten student's knowledge.

MISSION



Making self-reliant to challenge latest industry needs.

About B.Sc. (Computer Science and Artificial Intelligence)

The Programme provides a strong foundation in Computer Science and Artificial Intelligence through programming, AI tools, Data Science, Machine Learning and emerging technologies. Students gain practical exposure through laboratories, internships, hackathons, industry projects and research activities preparing them for higher education and successful careers.

Programme Objectives

- Provide a strong foundation in computer science fundamentals, programming, algorithms, data structures, databases, and software development.
- Promote analytical and problem-solving skills to design intelligent, innovative, and efficient solutions for real-world challenges.
- Encourage practical learning through laboratories, projects, internships, hackathons, and industry-oriented training.
- Foster research, innovation, and entrepreneurship by motivating students to explore emerging technologies and develop creative AI-based applications.
- Enhance professional and communication skills, teamwork, leadership, and ethical decision-making for successful careers in the global technology sector.
- Prepare students for higher education, research, and lifelong learning in Computer Science, Artificial Intelligence, Data Science, and related disciplines.
- Cultivate social responsibility and ethical AI practices, enabling graduates to develop technology that benefits society while ensuring fairness, privacy, and sustainability.

Why Choose B.Sc. (Computer science and Artificial Intelligence) at GVPIHLR?

For Excellence, Innovation for the Future. The programme provides a strong foundation in Computer Science and Artificial Intelligence through programming, AI tools, Data Science, Machine Learning and Emerging Technologies. students gain practical exposure through Laboratories, Internships, Hackathons, Industry projects and Research Activities, preparing them for Higher Education and Successful Career.

Programme Features

- Discipline Specific Core
- Discipline Specific Electives
- Skill enhancement Courses
- Value added
- Multidisciplinary
- Ability Enhancement
- Social Immersion Project
- Internships
- Academic Projects
- MOOCs / SWAYAM

Learning Beyond the Classroom

- Laboratory Training
- Projects & Internships
- Industry Workshops
- Guest Lectures
- Technical Seminars
- Hackathons & Coding Challenges
- Certifications
- Communication & Soft-Skills Training
- NCC – Army & Air Wings
- NSS & Extension Activities
- Sports

HOW THIS PROGRAMME BENEFITS YOU

- **Holistic Development:** Build communication, leadership, teamwork, confidence and social responsibility.
- **Career Readiness:** Gain the knowledge, skills, and experience needed to pursue successful careers and higher studies.
- **Practical Learning:** Strengthen your learning through projects, workshops, internships, and hands-on experiences.
- **Personality Development:** Become confident, adaptable, responsible, and prepared to meet real-world challenges.
- **Leadership Opportunities:** Develop leadership qualities through clubs, events, teamwork, and student-led activities.

CORE COURSE

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| <ul style="list-style-type: none">• Introduction to Artificial Intelligence• Computer Organization• Object Oriented Programming using Java• Python Programming• Operating System• Probability and Inferential Statistics | <ul style="list-style-type: none">• Database Management System• Software Engineering Essentials• Web Technologies• Foundations of Data Science• Artificial Intelligence for Intelligent System• Data Mining and Warehousing |
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COMPUTER SCIENCE ELECTIVES

- Basics of Cloud Computing
- Data Analysis and Visualization
- Web Application Development using PHP & MY SQL
- Computer Networks
- Mobile Application Development
- Big Data Technologies
- API Development
- Introduction to Information Security

ARTIFICIAL INTELLIGENCE ELECTIVES

- Introduction to Machine Learning
- Image Processing
- Artificial Intelligence for Gaming
- Generative AI and Prompt Engineering
- Computer Vision
- Quantum Technologies and Their Applications
- Blockchain Technologies
- Computational Intelligence

GVP PAST RECRUITERS

- | | |
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| <ul style="list-style-type: none">• TCS• Cognizant• Tech Mahindra• ICICI Bank• Asian Paints• Mindtree• L&T | <ul style="list-style-type: none">• HDB Financial• Services Miracle• Software Systems• Wipro• Infosys• Salesforce• Capgemini• Accenture |
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ELIGIBILITY

- Intermediate (10+2) from any stream with Mathematics as compulsory subject.

HIGHER EDUCATION

- MCA
- M.Sc.
- M.Tech
- MBA (ANY STREAM)
- MS Abroad

JOB OPPORTUNITIES

- Software Engineer / Developer
- AI & Machine Learning Engineer
- Data Scientist / Data Analyst
- Cloud & DevOps Engineer
- Cybersecurity Analyst
- Web & Application Developer