



GAYATRI VIDYA PARISHAD

INSTITUTE OF HIGHER LEARNING AND RESEARCH

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

Kommedi, Madhurawada, Visakhapatnam – 530 048, Andhra Pradesh

SCHOOL OF SCIENCES

(GVPIHLR-SOUTHEAST CAMPUS, Rushikonda)

MCA

MASTER OF
COMPUTER APPLICATIONS

A TWO YEAR POSTGRADUATE PROGRAM



VISION

GVPIHLR envisions 'Creating Human Excellence for a better society through holistic and multidisciplinary education.'



MISSION

At GVPIHLR, our mission is propelled by an unwavering dedication to achieving human excellence and contributing to a better society through a holistic and multidisciplinary approach to education.

GVPIHLR MISSION COMPRISES OF THREE KEY PILLARS:



1. Driving Progress through Holistic Education



2. Conducting Innovative Research for Societal Impact



3. Striving for Excellence in Teaching and Research

ADMISSION CONTACT DETAILS



Name 1 : Prof.I.S.Pallavi

☎ Mobile : 9666105272

✉ Email : hodmca.gvpihlr@gmail.com

🌐 Website : gvpihlr.in



Name 2 : P.Ratna Pavani

☎ Mobile : 9666777528

🌐 Website : gvpihlr.in



ABOUT GVP & 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 deemed to be university under distinct category 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 provides students with an integrated 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



ABOUT MCA

- ✓ At GVPIHLR, the MCA programme goes beyond a postgraduate degree. It transforms aspiring minds into skilled, innovative and industry-leading technology professionals.
- ✓ MCA has been started in the academic year **1993-1994** under the flag of GVP/CPDGC, the department carries a distinguished tradition of academic excellence, with **32 batches** of students successfully completing their programmes to date.
- ✓ Supported by a dedicated, professionally trained and experienced faculty team, the department extends learning beyond the prescribed curriculum through specialized courses, hands-on workshops and practical training in emerging technologies.
- ✓ The curriculum is carefully structured to build a solid foundation in computing, programming, software development, data management, web technologies and emerging domains.
- ✓ The department offers state-of-the-art infrastructure, modern laboratories and continuous industry interaction to ensure students are future-ready.

MCA AT A GLANCE



**2
YEARS**

Postgraduate Program



**32+
BATCHES**

Academic Legacy Since 1993-1994



**EXPERIENCED
FACULTY**

Dedicated & Qualified Team



**MODERN
LABS**

State-of-the-art Infrastructure



**INDUSTRY
READY**

Hands-on Training & Internships



**PLACEMENT
FOCUS**

Strong Support for Career Growth



POSTGRADUATE PROGRAMS UNDER SCHOOL OF SCIENCES

AICTE – TWO YEAR POSTGRADUATE PROGRAM

- **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 with Drug Design –



UNDERGRADUATE PROGRAMS UNDER SCHOOL OF SCIENCES

AICTE – FOUR YEAR UNDERGRADUATE PROGRAM

- **BCA (Hons)**-Bachelor of Computer Applications
- UG 4 YEARS HONORS / 5 YEARS INTEGRATED PROGRAM**
 - B.Sc. (Hons.) Computer Science and Artificial Intelligence
 - B.Sc. (Hons) Embedded Electronics and Artificial Intelligence
 - B.Sc. (Hons) Quantum Computing and Artificial Intelligence
 - B.Sc. (Hons) Bioinformatics with Artificial Intelligence
 - B.Sc. (Hons) Statistics and Data Science
 - B.Sc. (Hons.)Mathematics and Computer Science
 - B.Sc. (Hons) Statistics and Quantitative Methods
 - B.Sc. (Hons) Chemistry and Pharmaceutical Applications

MCA VISION & MISSION



MCA VISION

To become a centre of excellence in Computer Applications.



MCA MISSION

To be a leading academic department in computer applications, fostering innovation, critical thinking and professional excellence, while empowering students to adapt to emerging technologies and contribute ethically to the global IT landscape.

WHY MCA AT GVPIHLR?

A professionally focused postgraduate program that develops expertise in innovative technologies, problem-solving, and professional excellence in computing.



Academic Excellence - Value Based education.



Experienced Faculty - Dedicated & Supportive.



Modern Infrastructure- Advanced labs and Facilities.



Industry Exposure- Internships and Live Projects.



Placement Support- Strong Placement Assistance.



Holistic Development- Leadership & Life Skills.

MCA PROGRAMME FEATURES



Industry Oriented Curriculum

Designed for Future ready Careers



Hands on Experience

on new Technologies



Advanced Labs and Technologies

State of the Art Infrastructure



Real world Projects and Case studies

Real world Projects and Case studies



Internships with Leading Companies

Internships with Leading Companies



Skill Enhancement Courses

to upgrade your Skills

YEAR 1 – BUILD THE FOUNDATION

SEMESTER I



CORE COURSES

- Advanced Data Structures and Algorithms
- Operations Research
- Artificial Intelligence for Problem Solving
- Formal Languages and Automata Theory
- Data Science Essentials



OPEN ELECTIVE

- Principles of Entrepreneurship



SKILL DEVELOPMENT

- Python Programming



PRACTICAL

- Advanced Data Structures Using Java Lab
- Artificial Intelligence for Problem Solving Lab

SEMESTER II



CORE COURSES

- Advanced Database Management Systems
- Computer Networks
- Advanced Operating Systems
- Principles of Machine Learning
- Object Oriented Analysis and Design with UML



OPEN ELECTIVE

- Data Science / Cloud Computing / Quantum Computing



PRACTICAL

- Advanced Database Management Systems Lab
- Advanced Operating Systems Lab
- Machine Learning Lab

YEAR 2 – SPECIALIZE & APPLY

SEMESTER III



CORE COURSES

- Advanced Java Programming
- Network Security
- Web Technologies
- Neural Networks and Deep Learning



OPEN ELECTIVE

- Data Science / Cloud Computing / Quantum Computing



SKILL DEVELOPMENT

- Generative AI



PRACTICAL

- Advanced Java Programming Lab
- Web Technologies Lab



INDUSTRY EXPOSURE

- Internship



LEARNING BEYOND THE CLASSROOM



TECHNOLOGY IN ACTION:

Gain hands-on experience with advanced technologies through technical sessions, demos and training.



CODE & INNOVATION:

Build programming, problem-solving and innovation skills through coding challenges, hackathons and projects.



CAREER & PERSONALITY GROWTH:

Develop confidence, leadership and professional skills through CTV activities, certifications and teamwork.



CORPORATE GATEWAY:

Learn from industry experts and alumni through internships, industry visits and corporate interactions.



CATCH THE VISION – (CTV):

A weekly Personality Development Activity that Builds confidence and intellectual ability through Seminars, case studies, artefact



LEAD THE CHANGE:

Develop leadership, teamwork, creativity and entrepreneurial thinking to become an influential technology professional



PATHWAY TO SUCCESS:

Prepare for placements with aptitude training, résumé building, mock interviews and career guidance.

EXPLORE YOUR SPECIALIZATION



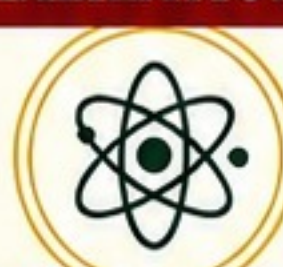
DATA SCIENCE

- Big Data Analytics
- Data Wrangling



CLOUD COMPUTING

- Cloud Computing Fundamentals
- Advanced Cloud Computing Technologies



QUANTUM COMPUTING

- Quantum Technologies
- Quantum Information Theory & Algorithms



AI & MACHINE LEARNING

- Machine Learning
- Reinforcement Learning
- Computer Vision
- Generative AI

CAREER PATHWAYS



SOFTWARE & DEVELOPMENT

- Software Developer
- Full Stack Developer
- AI Developer
- Web Developer
- Application Developer



DATA & AI

- Data Analyst
- Data Scientist
- AI Solutions Specialist
- Research Associate



CLOUD & SYSTEMS

- Cloud Engineer
- System Administrator
- Network Engineer
- Technical Support Engineer



CYBERSECURITY

- Cybersecurity Analyst
- Ethical Hacker
- Information Security Analyst



ACADEMIA & ENTREPRENEURSHIP

- Academic Professional
- IT Start-up Founder



GVP PAST RECRUITERS

TCS • Infosys • Wipro • Amazon • HCL • Cognizant
Hinduja Global Solutions • Fluentgrid • Tech Mahindra
Capgemini • Maracle • Concentrix



ELIGIBILITY

BCA or any graduates with Maths at 10+2 level.



MCA
(HONOURS)

TRANSFORMING ASPIRATIONS INTO ACHIEVEMENTS
BE FUTURE READY. BE MCA.

