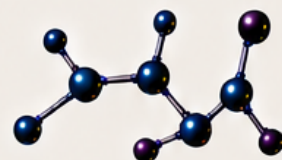
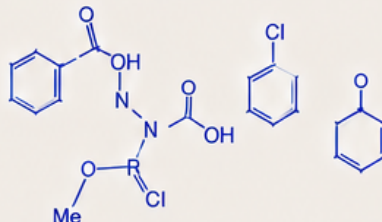
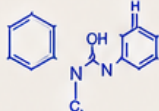
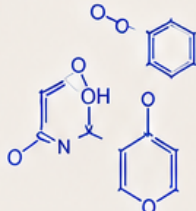


GVP Estd. 1988

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 Sciences
(GVPIHLR-SOUTHEAST CAMPUS, Rushikonda)



M.Sc. Organic Chemistry - Drug Design & Synthesis

A Two Year Postgraduate Program

VISION



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

MISSION



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."

SCAN FOR
ADMISSIONS



CONTACT
Dr. A. Karteek Rao
Dr. V. Govinda



9703469922
8247537822

VISIT OUR WEBSITE
 gvpihlr.in



ADDRESS
Rushikonda, Visakhapatnam,
530 048, Andhra Pradesh
email: hod-oc.gvpihlr@gmail.com



GAYATRI VIDYA PARISHAD

INSTITUTE OF HIGHER LEARNING AND RESEARCH

(DEEMED TO BE UNIVERSITY UNDER DISTINCT CATEGORY UNDER SECTION 3 OF THE UGC ACT, 1956)

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 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

PROGRAMMES UNDER SCHOOL OF SCIENCES

UNDERGRADUATE HONORS PROGRAMS

AICTE – FOUR YEAR UNDERGRADUATE HONORS PROGRAM

🎓 BCA (Hons)-Bachelor of Computer Applications

UG FOUR YEAR HONORS / FIVE YEAR INTEGRATED PROGRAMS

- 🎓 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
- 🎓 Pharmaceutical Applications

POSTGRADUATE PROGRAMS

AICTE – TWO YEAR POSTGRADUATE PROGRAMS

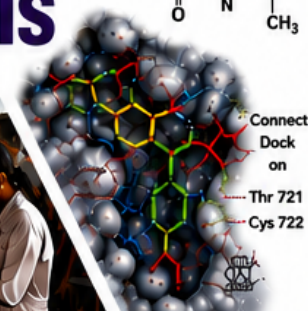
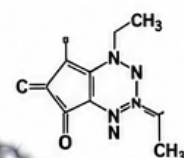
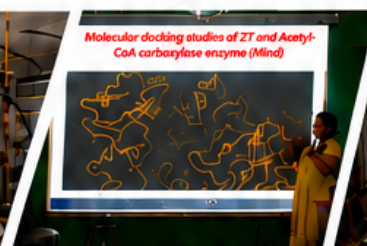
🎓 MCA -Master of Computer Applications-

TWO YEAR POSTGRADUATE PROGRAMS

🎓 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

M.Sc. Organic Chemistry - Drug Design & Synthesis



PROGRAM AT A GLANCE

- M.Sc. Organic Chemistry – Drug Design & Synthesis is an advanced postgraduate programme to meet the growing demand for highly skilled professionals in the pharmaceutical R&D, Process R&D and Drug Design.
- The programme integrates advanced organic chemistry with modern drug discovery, medicinal chemistry, synthetic methodologies, analytical techniques and computational drug design.
- It prepares students for research and industrial careers through a curriculum designed in consultation with pharmaceutical experts.
- The curriculum provides a strong foundation in the design, synthesis, characterization, and development of novel drug molecules.



WHAT YOU WILL MASTER IN OUR M.Sc. ORGANIC CHEMISTRY PROGRAM AT GVPIHLR

1. Concepts of Organic Chemistry
2. Stereochemistry and Named reactions
3. Chemistry of Transition metal complexes
4. Organic Spectroscopy
5. Pericyclic Reactions and Photochemistry
6. Modern Organic Synthesis
7. Advanced Organic Spectroscopy and Principles of Instrumentation
8. Drug Synthesis and use of AI&ML in Medicinal Chemistry

LABS

1. Organic synthesis lab
2. Analytical Techniques lab
3. Computer Aided Drug Design lab



PROGRAMME VISION

"To nurture high-caliber chemistry professionals equipped with ethical values and scientific excellence for a better society."



MISSION

To be a premier center for industry-ready chemistry graduates equipped with deep theoretical knowledge, advanced analytical and computational skills, and an in-depth understanding of pharmaceutical applications.



PROGRAM OUTCOMES

- ✓ To develop students' knowledge in scientific and chemical sciences and apply them to practical problems.
- ✓ To give skills in chemical education and its application at the industrial level.
- ✓ To impart fundamental knowledge on the structure, chemistry, and therapeutic value of drugs.
- ✓ To develop students with scientific solutions for real life and become professional chemists with ethical and social responsibility serving society.
- ✓ To emphasize modern techniques of rational drug design like Quantitative Structure Activity Relationship (QSAR), Prodrug concept, Combinatorial Chemistry, and Computer Aided Drug Design (CADD).
- ✓ To emphasize synthesis, mechanism of action, metabolism, adverse effects, Structure-Activity Relationships (SAR), therapeutic uses, and synthesis of important drugs.

KEY FOCUS AREAS



Organic chemistry



Synthesis



Research & Development



Computer aided Drug Discovery



Pharma-Expert Approved Curriculum
Industry-relevant curriculum curated by pharmaceutical experts to build strong concepts and practical competence.



Highly Qualified Faculty
Learn from experienced academicians and researchers committed to academic excellence and student success.



Industrial Exposure
Hands-on exposure through industry interactions, training, and live projects for real-world readiness.

WHY CHOOSE US?



01 Smart Class Teaching



02 Guest Lectures



03 State-of-the-Art Laboratories



04 Safe & Efficient Workspace



05 Pharma Industry Placements



06 Research & Drug Design Training



07 CSIR-NET & APSET Preparation

LABORATORIES & RESEARCH FACILITIES

01 Column Chromatography



02 Magnetic Stirrer



03 Mechanical Stirrer



04 Aroma Oil Preparation

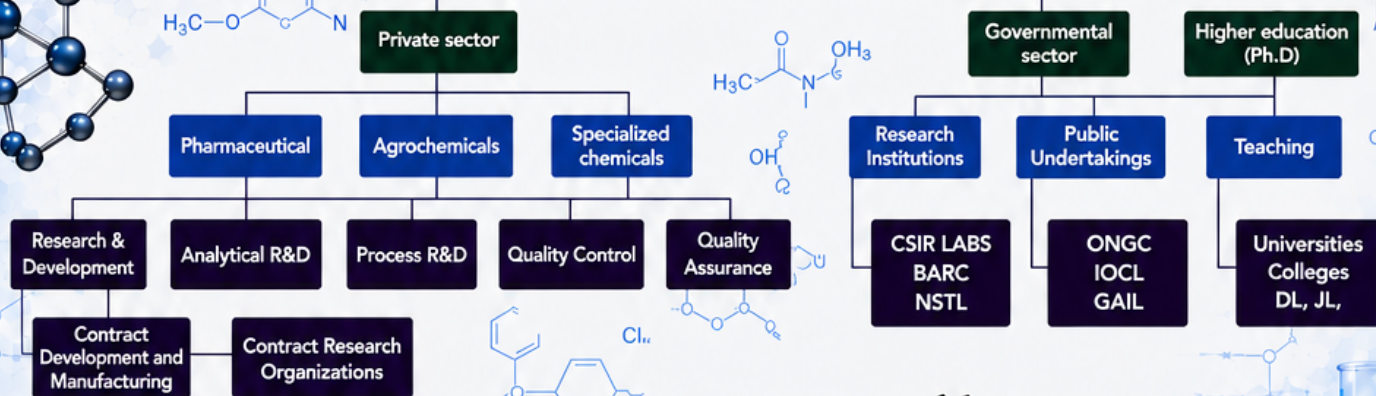


05 UV-Vis Spectrophotometry



M.Sc. Organic Chemistry- Drug Design & Synthesis

Carrier pathway after M.Sc. Organic Chemistry



OUR PAST RECRUITERS

- MSN
- Eisai
- Laurus Labs
- Cipla
- GVK Bio
- Avra
- Vimta
- Hetero
- Lupin
- Sun Pharma
- Pfizer
- Dr. Reddy's
- Mylan
- Granules
- SMS Pharma
- Divi's Laboratories
- Aurobindo Pharma
- Aregon
- Matrix
- NACL
- PharmaZell

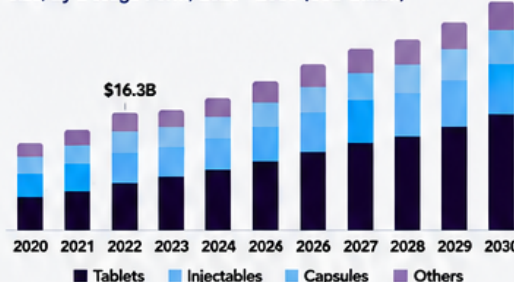
Nothing in life is to be feared,
it is only to be understood.
Now is the time to understand more,
so that we may fear less.

— Marie Curie
(Two-time Nobel Laureate in
Physics & Chemistry)



PHARMACEUTICAL MARKET GROWTH IN INDIA

India Pharmaceutical Manufacturing Market
Size, by Dosage Form, 2020 - 2030 (USD Billion)



GRAND VIEW RESEARCH

10.5%
India Market CAGR,
2024 - 2030

Source:
www.grandviewresearch.com

ROLES OF DISTINGUISHED GVP ALUMNI

- Senior Research assistant
- Quality Assurance analyst
- Quality Control analyst
- HPLC analyst
- NMR analyst
- Complaints handling
- Assistant Professor
- etc.

STUDENT-CENTRIC APPROACH

- Industrial Visits to Leading Pharma & Chemical Industries
- Research Projects with Modern Laboratories
- Research Publications in Reputed Journals
- Seminars & Guest Lectures by Pharma Experts
- Extracurricular Activities
- Sports & Fitness Programs
- Cultural Activities & Competitions
- Holistic Development for Future-Ready Professionals

STRATEGIC LOCATION ADVANTAGE:

Visakhapatnam is Located in a thriving hub of pharmaceutical MNCs, offering students immediate proximity to industry leaders like Dr. Reddy's, Pfizer, Aurobindo Pharma etc.



LABORATORIES & RESEARCH FACILITIES

01 Column Chromatography



02 Magnetic Stirrer



03 Mechanical Stirrer



04 Aroma Oil Preparation



05 UV-Vis Spectrophotometry

