



# KLU University

(Deemed to be University, Estd. u/s. 3 of UGC Act 1956)

Campus: Green Fields, Vaddeswaram, Guntur Dist., A.P., India. Pin: 522 502. Ph: 0863 - 2399999.

Admin Office: 29-36-38, Museum Road, Governerpet, Vijayawada. A. P., India. Pin: 520 002. Ph: 0866 - 2577715.

36  
Years of  
Engineering  
Excellence



## Department of CHEMISTRY Offers

### 1. M.Sc. Chemistry with specializations:

Organic and Analytical Chemistry:

Duration: 2 Years (4 Semesters)

### 2. Integrated M.Sc-M.Phil (i-M.Phil):

Duration: 3 Years (6 Semesters)

### 3. Integrated M.Sc.-Ph.D. (i-Ph.D)

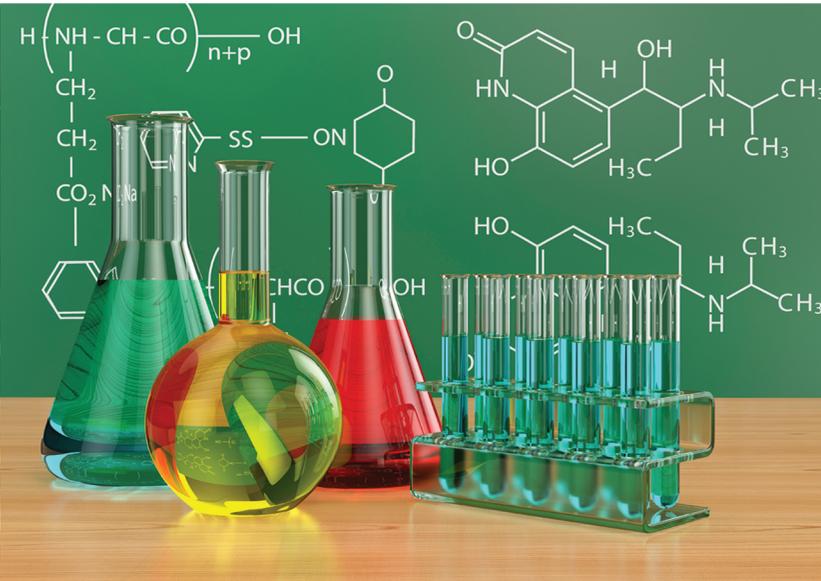
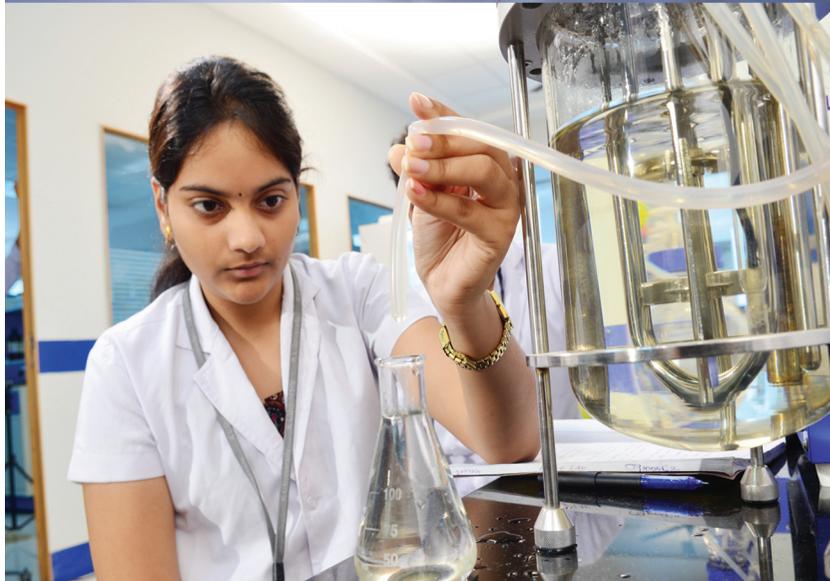
Duration: 5 Years (10 Semesters)

**Eligibility:** Bachelor's degree in Science with honours / Major in the Chemistry discipline.

## Admissions in Progress!!

### About the Department:

The Department of Chemistry has distinguished and outstanding reputation for research covering most areas of Chemistry. We have comprehensive academic coverage across chemical sciences and excellent in-depth research in all the core sub-disciplines of Chemistry, coupled with outstanding infrastructure and facilities, dedicated staff and strong portfolio of postgraduate and research degrees. The Department offers a wide range of challenging and rewarding Postgraduate and Research Programs.



## Post Graduate and integrated Research Programs in Chemistry:

The traditional M.Sc. Chemistry program with Classical specialization of Organic and Analytical Chemistry (two years: 4 Semesters) and integrated M.Sc.–M.Phil (3 years: 6 Semesters), M.Sc.-Ph.D. program (5 years: 10 Semesters) have been formulated to acquaint the students the importance and emerging trends in Chemistry with respect to research, academics and also industry requirements and to manifest them into “Research Chemists” rather than mere “Chemists” and for whom, the job opportunities are unlimited either in Industry or in research institutions. These Programs are designed by incorporating interdisciplinary, emerging and applied areas in Chemistry studied with research component, suitable for the prevailing day- to-day changing scenario of Science and Technology.

These programs maximize the number of qualified researchers and professionals of impeccable quality in the domain of science and engineering and to equip them with the skills to innovate and conduct seamless interdisciplinary research.

### The key objectives of the programs are:

- ☞ To develop human resource with expertise in the broader areas especially interdisciplinary areas related to Chemistry.
- ☞ To produce high-quality professional scientists, with an advanced understanding of chemistry and an enthusiasm to use the acquired knowledge to carry out research in an academic or industrial environment.
- ☞ To enrich the students with many classical aspects of Organic and Analytical Chemistry.
- ☞ To evoke research appetite in students by culturing and cultivating in them the skills to innovate and conduct seamless interdisciplinary research.
- ☞ To train the students in scientific research in Chemistry and other related interdisciplinary areas
- ☞ To equip the students to perform functions that demand higher competence in national or international organizations.
- ☞ To cultivate scientific skills in students for being a successful person either in Industry or in Academia.
- ☞ To help the students to find meaning in life by broadening their field of vision

## Taught Modules

These programs consists of both a taught element and a substantial research projects. The lecture modules cover a broad range of scientific topics as well as transferable skills which are of value to a wide range of sectors including chemical, pharmaceutical, optoelectronics and environmental aspects. The taught modules will be delivered as lectures with extensive support from workshops and practical classes. Besides the various topics taught in General Chemistry, Inorganic Chemistry, Organic Chemistry and Physical Chemistry, the following important topics will be covered in the 2nd Year of M.Sc.:

With Analytical Chemistry stream:

- ☞ Separation techniques
- ☞ Traditional methods of analysis
- ☞ Instrumental Methods of Analysis
- ☞ Applied Analytical Chemistry

With Organic Chemistry stream:

- ☞ Organic Reaction Mechanisms and pericyclic reactions
- ☞ Organic photochemistry
- ☞ Organic Spectroscopy
- ☞ Organic Synthesis
- ☞ Natural Products and Biopolymers

For research degrees, the individual research topics will be in either applied or fundamental areas of analytical or Organic chemistry and wherever possible, projects are aimed to tackle real industrial or environmental problems.

### Job Oppurtinities

are un-limited for a skilled research chemists in Chemical, Petroleum, Paint, Pharmaceutical based industries, R and D of wings of various research institutes and in academia.



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