

JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE, NANJANGUD-571301

DEPARTMENT OF CHEMISTRY

About The Department:

Chemistry is one of the premier Departments in the Faculty of Science was established in 1972. Since its inception, the department has been providing the need based quality education to the students of Chemistry. Over the last five decades, the department has built up its reputation as one among the best. At present, the Department has experienced, qualified and highly dedicated faculty members to mentor and guide the students.

The syllabus offered by the department at Undergraduate level is aimed at providing students with a strong foundation of the subject and making them proficient in both theory and practical, so that they are ready to take up higher studies in Chemistry in any reputed institution all over the world. The college Central Library houses 1433 books, e-journals and INFLIBNET services. The department has two well equipped laboratories to cater the needs of the students. Department of Chemistry has a good infrastructure, enthusiastic, competent and well – qualified faculty members. The department has opened its door of knowledge to encourage the students and the faculty members to be involved themselves in Research activities through writing research articles, presenting papers in National and international level and also to publish the papers in the well reputed Journals. As a result, research papers have been published in national and international journals. Faculty members of the department have participated, presented research papers and are keeping their interest to enhance their research interest being a part of seminars/workshops frequently organized.

During the last 20 years, the faculty members of the Department have received financial assistance for their research work provided by UGC. The research group of the department is engaged in highly productive research work in some of the important areas of the subject such as polymers, coordination chemistry and sensors. At present, one of the faculty members has been recognized as Research Guide from the University of Mysore.

The department has a MoU relationship with institutes and industries for the students to do their projects and faculty exchange programme. The basic idea is to promote the learners to think beyond the textbooks and do some research to understand the concept in a more concrete way. Over the years, the department has conducted several national and state-level seminars and workshops on frontier areas of chemistry for the benefit of the students and faculty. The department has established research collaborations with laboratories and institutes. The faculty of the department has travelled extensively in India and abroad to deliver invited talks at National and International conferences. The

Department, organizes special lecture programmes by eminent speakers on topics of general interests and subject for the students and staff of the college

In order to promote and to encourage the students to excel in their studies, various cash prizes have been instituted. All the awards/cash prizes carry certificates which will be given to the students who excel in their examinations every year on the occasion of the Founders'- Day.

Programme offered : PCM

Physics, Chemistry, Mathematics

Objectives of the programmes:

- To provide a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective.
- To provide students with the skills required to succeed in graduate school, chemical industry and professional college.
- To expose the students to a broad breadth of experimental techniques using modern instrumentation.
- To develop scientific outlook not only with respect to science but also in all aspects to life.

Outcomes of the programme:

At the end of the programme the student will be able to:

- Develop communication skills.
- Identify and solve problems in the field of chemistry.
- Be able to plan, execute, using appropriate data.
- Develop the team spirit and co-ordination in students through experiential and investigative laboratory learning.
- Students are expected to have an understanding the analytical methods required to interpret and analyze results and draw conclusions as supported by their data.
- Makes the students ready to take up jobs in various sectors such as research firms, health care, chemical industry, testing laboratories, software company, banks, etc.

Curriculum: CBCS Semester scheme

[Click Here For Detailed Syllabus](#)

Laboratory facilities:

The department has two well equipped laboratories to perform the experiments in the three branches of chemistry.,viz... Inorganic Chemistry, Organic Chemistry and Physical Chemistry

Criteria for Admission:

Admission to UG Programme is offered on the basis of marks obtained in the qualifying examination (10+2) followed by document verification at the time of final admission.

Learning resources:

1. Central library with 1433 books, journals and INFLIBNET services
2. E-learning resources
3. Department library
4. Laboratory Experiments
5. Special Lectures ,Workshops, Seminar

Contact details of HOD:

Head of the Department: Dr.B.K.Kendagannaswamy

Contact Number: 9845659939

COURSE STRUCTURE**Credit Matrix**

Semester	Core course	Credits
I	DSC I	6
II	DSC II	6
III	DSC III	6
IV	DSCIV	6
V	DSE I	6
	SEC	2
VI	DSC II	6
	SEC	2
	Total	36