

## **Department of Chemistry**

### **History at a Glance**

Department of Chemistry was established in 2012. The Department has adequate, highly qualified, experienced and competent faculty. Chemistry is the common subject to all groups. Its applications encompass all the aspects of human civilisation. Since many decades the subject has offered wide scale career opportunities to young and innovative minds. Besides teaching, faculty members are actively involved in research activities and published papers in National and International peer reviewed journals. A minor research project funded by STRC is under the pipeline. The department emphasizes, on ICT based Teaching- Learning methodology & provides platform for enhancing the quality of students.

### **Academic Initiatives**

- The Department educates students with updated knowledge and skills in the subjects
- Qualified and experienced faculty
- Well- equipped laboratory and instrumental facility
- Chemical Society
- Organizes guest lectures of eminent scientists/academicians
- Organizes Seminars of U.G. students
- Encourages students to participate in intercollegiate seminar, conferences, etc.
- Micro scale level practical at U.G. level, to save chemicals
- Organized Educational tour to National Institutes and Industries
- Hands- on Training on sophisticated instruments
- Teachers' and Students' participation in extension activities
- Faculty and Students' Exchange Programs with fellow Institutions

### **Laboratory**

Quality lab for FY, SY, TY B.Sc. students having all the basic apparatus required for the practical. The Laboratory is well equipped, ventilated and spacious giving each individual student with sufficient space for working. The Laboratory has L.P.G. gas line, Basins, Chemical Racks etc.

### **Departmental Library**

Besides the Central Library, we have Departmental library for our students. Sufficient books are available in the library. As per need, we are adding the books at our library.



**DR. ASHWINI M. KADU**

**Designation**

- Assistant Professor  
Department of Chemistry

**Academic Qualification**

- M.Sc. (Chemistry), B.Ed., Ph. D.

**Doctor of Philosophy**

- Topic- Study of Physicochemical and Medicinal Properties of Gum of Wild Medicinal Plants of Gadchiroli District, Maharashtra

**Teaching Experience**

- 08 years

**No. of Research Paper published in National and International Journals**

- 10 research papers are published in various National and International journals

**Awards for Research Papers and Achievements**

- Third Prize in Research Festival on, “Traditional Study on Medicinal Plants in Gadchiroli District, Maharashtra”. Festival (Aviskar-2016) at S.P. College, Chandrapur on 6 & 7 January 2017
- 2<sup>nd</sup> prize in 2<sup>nd</sup> International Conference, “Physicochemical studies on Acacia Nilotica.” Thermal Power Chemistry and Sustainable Environment on 5 June 2017
- International conference Best Paper, “Studies of Acacia Nilotica Gum with reference to density” viscosity and pH”, Shri Shivaji Education Society Amaravati’s Science college, Congress Nagar, Nagpur-440012 (MS) India.

**Patents**

- International, Innovation patent granted “The process for preparing medicine to cure kidney stone” Innovation patent granted, patent no.2021103318 on 24 November 2021 by Australian government
- National patent registered, “Medicine on the kidney stone”, Registration no.202121017512 on dated 17 May 2021

## **Project**

- STRC Gondwana university under STRC assistance for S &T application Scheme. Letter No. STRC/GUG/1772/2022, for the topic, “Phytochemical and Medicinal Study of Acacia Leucophloea, Albizia Lebbeck and Cassia Fistula Seeds”. 24 May 2022, INR 90,000