



**ST ALOYSIUS COLLEGE
(AUTONOMOUS)
MANGALORE 575 003**

DEPARTMENT OF
CHEMISTRY

Offers

Online Certificate Courses
in

- 1. Instrumental Methods & Separation Techniques in Chemical Analysis**
- 2. Forensic Chemistry – Scientific Approach to Crime Investigations**
- 3. Online Tools In Chemical Research**
- 4. Application of Analytical Chemistry in Food Laboratories**
- 5. Chemistry Drawings using Chems sketch Software**

Apply online

Register before November 25, 2021



For Registration Click Here:
<https://bit.ly/3mi4cwA>

OR



2. Forensic Chemistry – Scientific Approach to Crime Investigations

Course Coordinators: Ms Sahana, Dr Laveena DSouza

Objectives: This 30-hour online course aims to explain the scientific ideas and methodologies that underpin forensic scientists' work, particularly in the field of chemical science. Various topics will be supported by illustrations with numerous case studies from in and around the region. Students will be able to understand different methodology involved in forensic sciences in particular focus on the chemical analysis.

Highlights: There will be sessions by forensic experts in addition to the theory involved in forensic sciences.

Eligibility: All B.Sc. / M.Sc. students who have a Chemistry background.

Contents: Introduction to Forensic Chemistry, branches of and cases involved in Forensic chemistry, Crime scene investigation. Separation of complex mixtures using chromatography and extraction methods, Spectroscopic techniques – UV, IR and Mass spectroscopy and elemental analysis, Fingerprint analysis – Chemical methods, Narcotics and Drugs, Forensic toxicology, Analysis of fibers, paints and polymers, chemical analysis of glass and soil, Chemistry of fire and explosives.

Each chapter will be followed by a case study.

Learning outcomes: After successful completion of this course candidate will be able to relate some of the basic facts, concepts and principles relevant to chemical analysis involved in forensic sciences.

Course duration: 30 hours

Time: 5.00 – 6.30 pm (Once a week)