



**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 Chemsketch Software**

Apply online

Register before November 25, 2021



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

OR



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## 4. Application of Analytical Chemistry in Food Laboratories

**Course Coordinator:** Ms Deepa Vasanth, Ms Ashwini

**Objectives:** Application of Analytical Chemistry in food laboratories is a 30 hours certificate online course. It is a discipline of chemistry concerned with the study of food, particularly the qualitative and quantitative characterization of its constituents (lipids, proteins, carbohydrates, vitamins, and minerals). The programme incorporates the specialized knowledge and skills required to implement the fundamental principles of Quality Assurance.

**Highlights:** Introduction of modern laboratory techniques in the food industry.

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

**Contents:** Analytical methods of determination of basic food components: protein, saccharides, lipids, vitamins, water, minerals and trace elements, sensory active compounds, anti-nutritive and natural toxic compounds, food additives and food contaminants. Advanced laboratory techniques: principle, working and application of GC, HPLC, HPTLC, LC/MS, inductively coupled Plasma and Mass Spectroscopy.

**Learning outcomes:** After successful completion of this course candidate acquire sound theoretical knowledge and understanding of the fundamental concepts, principles and processes in Analytical Chemistry.

**Course duration:** 30 hours

**Timings:** 5.00 – 6.30 pm (Once a week)