



UC207 Jan. 2:1

Instrumental Methods of Chemical Analysis

Instructor

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Department: Undergraduate Program in Chemical Sciences

Course Time: MONDAY, WEDNESDAY, 9 AM-10 AM

Lecture venue: UG Lecture Hall

Detailed Course Page:

Announcements

Brief description of the course

The course covers the basics of analytical techniques used in Chemistry and chemical research such as Chromatography, Solvent extraction, Spectroscopy (UV-Vis, IR, NMR and Fluorescence) etc.

The theory part of the course is supported by laboratory practicals.

Prerequisites

The course requires a basic background in Chemistry and Mathematics up to the 12th Standard.

Syllabus

Chromatography, Solvent extraction, Spectroscopy (UV-Vis, IR, NMR and Fluorescence), Mass spectrometry,

Structural elucidation

Course outcomes

The students get an idea of the different analytical tools required for carrying out research in Chemistry and Materials.

Grading policy

65 % Theory part (which is split is 50% mid-semester and 50% final) and 35% laboratory part.

Assignments

Resources

Fundamentals of Analytical Chemistry by Skoog and West.