

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: 1

Master of Environmental Engineering

Subject Name **Major Elective 1.2 Advances in Environmental Laboratories**

Sr.No	Course content
1	Introduction to instrumental methods of environmental analysis.
2	Application of optical spectroscopy to environmental analysis.
3	Electrochemical methods of environmental analysis.
4	Chromatographic environmental analysis.
5	Mass spectroscopy in environmental analysis.
6	Advances in mass spectrometry environmental analysis.

List of Experiments:

This is basically laboratory based syllabus only so list is same

1. Introduction to instrumental methods of environmental analysis.
2. Application of optical spectroscopy to environmental analysis.
3. Electrochemical methods of environmental analysis.
4. Chromatographic environmental analysis.
- 5 Mass spectroscopy in environmental analysis.
6. Advances in mass spectrometry environmental analysis.

Reference Books:

- (1)Instrumental Methods of Environmental Analysis by /Karan Sareen. Vedams e Books Pvt Ltd. New Delhi
- (2)Instrumental Methods Of Analysis, 7e(Hardcover - 2006) by M H Willard Publisher: C B S Publishers & Distributors
- (3)Standard Methods of Testing Water and Waste water Latest Edition Published jointly APHA, AWWWA,WPCF
- (4) Use of Manual of a software included for study

Semester 1 General Subjects to be Offered Across all Branches of PG