

Department of Chemical Engineering

Programme Educational Objectives

1. Acquire the fundamental principles of science and chemical engineering with modern experimental and computational skills.
2. Ability to handle problems of practical relevance to society while complying with economical, environmental, ethical, and safety factors.
3. Demonstrate professional excellence, ethics, soft skills and leadership qualities

Programme Outcomes

At the end of the Programme, a graduate will be able to

1. Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
2. Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
3. Propose an appropriate solution for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
4. Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
5. Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
6. Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
7. Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
8. Demonstrate Knowledge of professional and ethical practices.
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.
10. Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clear instructions.
11. Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment.
12. Recognize the need for, and have the ability to engage in independent and lifelong learning.

PEO-PO Mapping:

The following table gives the mapping between PEOs and POs of the chemical engineering Programme.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PEO1	3	3	3	3	2					1	1	
PEO2		2	2			1	3	1	1		3	2
PEO3			3			1	3	3	2	2		2

3 – Strong, 2 – Moderate, and 1 - Weak