

GUJARAT TECHNOLOGICAL UNIVERSITY
M.E. CHEMICAL ENGINEERING (Computer Aided Process Design)
 PROPOSED TEACHING SCHEME

Semester I

SR. NO.	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Advanced Thermodynamics	4	0	0	4
2	Advanced Kinetics & Reaction Engineering	4	0	0	4
3	Computerized Process Control	3	0	2	4
4	Major Elective 1	4	0	0	4
5	Inter Disciplinary Elective 1	3	2	0	4
6	Communication & Research Skills	2	2	0	3
7	Advanced Computational Techniques for Research	0	0	4	2
	TOTAL	20	4	6	25

Semester II

SR NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Industrial Biotechnology	3	0	2	4
2	Chemical Process Optimization	4	0	0	4
3	Major Elective 2	4	0	0	4
4	Major Elective 3	3	0	2	4
5	Inter Disciplinary Elective 2	3	0	2	4
6	Principles of Management	3	0	0	3
7	Process Plant Simulation	0	0	4	2
	TOTAL	20	0	10	25

M.E. CHEMICAL ENGINEERING (Computer Aided Process Design)

Interdisciplinary Elective - 1	Interdisciplinary Elective - 2
Cleaner Production in Chemical Industries	Seperation Techniques

Sr. No.	Major Elective - 1	Major Elective - 2	Major Elective - 3
1	Energy and Mass Integration (CAD Group)	Property Prediction for Mixtures (CAD Group)	Chemical System Modeling & Simulation (CAD Group)
2	Polymer Science & Synthesis of Polymers (Polymer Group)	Polymer Processing (Polymer Group)	Polymer Materials & Testing (Polymer Group)