

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Mechanical (CRYOGENIC ENGINEERING)

PROPOSED TEACHING SCHEME

Semester I

SR. NO.	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Cryogenic Fundamentals	4	0	2	5
2	Vacuum Engineering	3	0	2	4
3	Advanced Refrigeration	4	0	2	5
4	Inter Disciplinary Elective 1	3	0	2	4
5	Major Elective 1	3	2	0	4
6	Communication & Research Skills	2	2	0	3
7					
	TOTAL	19	4	8	25

Semester II

SR NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Cryogenic Systems	3	0	2	4
2	Cryogenic Plants and Equipments	4	0	2	5
3	Major Elective 2	4	0	2	5
4	Major Elective 3	3	0	2	4
5	Inter Disciplinary Elective-2	3	0	2	4
6	Principle of Management	3	0	0	3
7					
	TOTAL	20	0	10	25

M.E. Mechanical (CRYOGENIC ENGG.)

Interdisciplinary Elective - 1	Interdisciplinary Elective - 2
Elements of Cryogenic Engineering	Cryogenic Applications

Sr. No.	Major Elective - 1	Major Elective - 2	Major Elective - 3
1	Advanced Heat and Mass Transfer	Advanced Air Conditioning	Radiation Heating and Cooling System
2	Cryogenic Heat Exchanger		Computational Fluid Dynamics