

**M.TECH. PETROLEUM REFINING AND PETROCHEMICALS
CURRICULUM - FULL TIME - Duration (3 Semesters)**

<u>Course Code</u> <u>Semester No.1</u>	Course Title	L	T	P	C
MPP 131	Petroleum Refining I	3	0	0	3
MPP 132	Petroleum Process Equipment Design I	3	0	0	3
MPP 133	Safety and Hazards Control in Petroleum Industries	3	0	0	3
MPP 134	Natural Gas Engineering	3	0	0	3
	Elective – I	3	0	0	3
	Elective – II	3	0	0	3
MCL 133	Micro- Processor and Computer Laboratory	0	0	3	1
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<u>Semester No.2</u>					
MPP 141	Petroleum Refining II	3	0	0	3
MPP 142	Petroleum Process Equipment Design II	3	0	0	3
MPP 143	Petrochemicals	3	0	0	3
MPP 144	Advanced Control and Optimisation Techniques	3	0	0	3
	Elective I	3	0	0	3
	Elective II	3	0	0	3
MCL 144	Instrumental Analysis Laboratory	0	0	3	1

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<u>Summer Term</u>					
MPP 231	Industrial Attachment	0	0	0	1
<u>Semester No.3</u>					
MPP 232	Seminar	0	0	0	1
MPP 233	Project	0	0	24	12

					14

Total number of credits to be earned for award of the degree					52

**M.TECH. PETROLEUM REFINING AND PETROCHEMICALS
CURRICULUM - PART TIME - Duration (5 Semesters)**

Course Code	Course Title	L	T	P	C
<u>Semester No.1</u>					
MPP 131	Petroleum Refining I	3	0	0	3
MPP 132	Petroleum Process Equipment Design I	3	0	0	3
MPP 133	Safety and Hazards Control in Petroleum Industries	3	0	0	3
MCL 133	Micro processor and Computer Laboratory	0	0	3	1
					----- 10 -----
<u>Semester No.2</u>					
MPP 134	Natural Gas Engineering	3	0	0	3
MPP 141	Petroleum Refining II	3	0	0	3
MPP 142	Petroleum Process Equipment Design II	3	0	0	3
MCL 144	Instrumental Analysis Laboratory	0	0	3	1
					----- 10 -----
<u>Semester No.3</u>					
MPP 143	Petrochemicals	3	0	0	3
MPP 144	Advanced Control and Optimisation Techniques	3	0	0	3
	Elective I	3	0	0	3
	Elective II	3	0	0	3
					----- 12 -----
<u>Semester No.4</u>					
	Elective – III	3	0	0	3
	Elective – IV	3	0	0	3
<u>Summer Term</u>					
MPP 231	Industrial Attachment	0	0	0	1
					----- 7 -----
<u>Semester No.5</u>					
MPP 232	Seminar	0	0	0	1
MPP 233	Project	0	0	24	12
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Total number of credits to be earned for award of the degree: 52

ELECTIVES for M.TECH. PETROLEUM REFINING AND PETROCHEMICALS

Course Code	Course Title	L	T	P	C
MPP 031	INDUSTRIAL INSTRUMENTATION	3	0	0	3
MPP 032	CHEMICAL AND CATALYTIC REACTION ENGINEERING	3	0	0	3
MPP 033	POLYMER TECHNOLOGY	3	0	0	3
MPP 034	ENERGY MANAGEMENT IN PETROLEUM INDUSTRIES	3	0	0	3
MPP 035	ENVIRONMENTAL ENGINEERING IN PETROLEUM INDUSTRIES	3	0	0	3
MPP 036	COMPUTATIONAL FLUID DYNAMICS TECHNIQUES	3	0	0	3
MPP 037	COMPUTER AIDED DESIGN	3	0	0	3
MPP 038	PROJECT ENGINEERING OF PETROLEUM AND PETROCHEMICAL INDUSTRIES	3	0	0	3
MPP 039	NUMERICAL TECHNIQUES FOR ENGINEERS	3	0	0	3
MPP 040	PETROLEUM THERMODYNAMICS	3	0	0	3
MPP 041	ADVANCED TRANSPORT PHENOMENA	3	0	0	3
MPP 042	MODERN SEPARATION TECHNIQUES	3	0	0	3
MPP 043	OPERATIONS RESEARCH TECHNIQUES IN PETROLEUM INDUSTRIES	3	0	0	3
MPP 044	RISK ANALYSIS AND MANAGEMENT	3	0	0	3