

Mechanical (Thermal Engineering) (21)

w.e.f. July 2014

Semester I					
Subject Code	Subject Name	Theory	Tutorial/ Presentation	Practical	Credits
2710002	Computational Method for Mechanical Engineering**	3	2	0	4
2711101	Advanced Thermodynamics & Heat Transfer	4	2#	0	5
2711103	Advanced Fluid Mechanics	3	2#	2	5
	Major Elective - I	4	2	0	5
2710001	Research Skills	1	2	0	2
	Total Credits				21
Major Elective I					
2712107	Thermal and Nuclear Power Plants				
2712108	Hydrogen & Fuel Cell Technology				
2712109	Renewable Energy Engineering				
2712110	Jet Propulsion & Air-Craft Engineering				

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Semester II					
Subject Code	Subject Name	Theory	Tutorial/ Presentation	Practical	Credits
2722105	Experimental Techniques and Instrumentations in Thermal Engineering	3	0	2#	4
2722106	Computational Fluid Dynamics	3	0	4#	5
	Major Elective - II	3	2#	2	5
	Major Elective - III	3	2#	0	4
	Open Elective	3	2#	2	5
	Total Credits				23
Major Elective II					
2722107	Advanced Internal Combustion Engine				
2722108	Solar Energy Engineering				
2722109	Advanced Refrigeration Engineering				
Major Elective III					
2722110	Cryogenic Engineering				
2722111	Design and Optimization of Thermal System				
2722112	Exergy Analysis of Thermal Systems				
Open Elective					
2721008	Energy Economics and Management				

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Semester III

Subject Code	Subject Name	Theory	Tutorial/ Presentation	Practical	Credits
	Major Elective - IV	3	2#	2	5
2730004	Seminar (Presentation + Attendance@ + Preparation of learning material*)#	0	4	0	2
2730002	Internal Review\$	0	2	0	1
2730003	Dissertation Phase - I (Literature Review, Problem Formulation, Progress and Work Plan)	0	0	20	10
	Total Credits				18

Major Elective IV

2732104	Combustion Engineering
2732105	Advanced Air Conditioning Technology
2731105	Design of Heat Exchangers

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Semester IV

Subject Code	Subject Name	Theory	Tutorial/ Presentation	Practical	Credits
	Major Elective - V	3	2#	0	4
2740004	Seminar (Presentation + Attendance@ + Preparation of learning material*)#	0	4	0	2
2740001	External Mid Sem Review (Brief Lit. Rev, Problem Statement and Major Outcomes)	-	-	-	10
2740002	Dissertation Phase- II	0	0	24	12
	Total Credits				24

Major Elective V

2742102	Energy Conservation & Management
2742103	Advanced Thermal Turbo Machineries