

University of Engineering & Management, Jaipur

Syllabus to be implemented from the Academic Year 2020-2021

M.Tech in Thermal Engineering

First Year – First Semester

S.No	Sub Code	Subjects	Contact Hours / Week			
			L	T	P	Total
1	TE101	Advanced Heat and Mass Transfer	3	1	0	4
2	TE102	Advanced Thermodynamics	3	1	0	4
3	TE103	Advanced Fluid Mechanics	3	1	0	4
4	TE104	Applied Mathematics for Mechanical Engineers	3	1	0	4
Total Theory						16
			Contact Hours / Week			
S.No	Sub Code	Subjects	L	T	P	Total
5	TE191	Thermal Engineering Lab	0	0	3	3
Total Practical						3
Total Semester			12	4	3	19

First Year – Second Semester

S.No	Sub Code	Subjects	Contact Hours / Week			
			L	T	P	Total
1	TE201	Computational Fluid Dynamics	3	1	0	4
2	TE202	Thermal and Nuclear Power Plant	3	1	0	4
3	TE203	Simulation, Modelling & Analysis	3	1	0	4
4	TE204	Solar Energy Technology	3	1	0	4
Total Theory						16
			Contact Hours / Week			
S.No	Sub Code	Subjects	L	T	P	Total
5	TE291	Simulation Modeling & Analysis Lab	0	0	3	3
Total Practical						3
Total Semester			12	4	3	19

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Second Year – Third Semester

S.No	Sub Code	Subjects	Contact Hours / Week			
			L	T	P	Total
1	TE301	Optimization Techniques & Design Of Experiments	3	1	0	4
2	TE302	Theory and Design of Heat Exchangers	3	1	0	4
Total Theory						8
			Contact Hours / Week			
S.No	Sub Code	Subjects	L	T	P	Total
3	TE391	Seminar-I	0	2	0	1
4	TE392	Project – Part 1 (Dissertation I + Defence of Project - I)	0	0	18	4+8=12
Total Practical						13
Total Semester						21

Second Year – Fourth Semester

S.No	Sub Code	Subjects	Contact Hours / Week			
			L	T	P	Total
1	TE491	Project–Part-II (Dissertation II + Defence of Project - II)	0	0	24	6+18=24
Total						24