



University of Engineering & Management, Jaipur
Syllabus to be implemented from the Academic Year 2014-15
M.Tech in Production Engineering

First Year – First Semester

S.No	Sub Code	Subjects	Contact Hours / Week			
			L	T	P	Total
1	PE101	Machining Science – I	3	1	0	4
2	PE102	Machining Science – II	3	1	0	4
3	PE103	Metal Forming	3	1	0	4
4	PE104	Metrology and Computer Aided Inspection	3	1	0	4
Total Theory						16
			Contact Hours / Week			
S.No	Sub Code	Subjects	L	T	P	Total
5	PE191	Manufacturing 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	PE201	Advanced Optimization Techniques	3	1	0	4
2	PE202	Mechatronics	3	1	0	4
3	PE203	Machine Tool Design	3	1	0	4
4	PE204	Computer Integrated Manufacturing Systems	3	1	0	4
Total Theory						16
			Contact Hours / Week			
S.No	Sub Code	Subjects	L	T	P	Total
5	PE291	CAM 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	PE301	Elective 1	3	1	0	4
2	PE302	Elective 2	3	1	0	4
Total Theory						8
			Contact Hours / Week			
S.No	Sub Code	Subjects	L	T	P	Total
3	PE391	Seminar-I	0	2	0	1
4	PE392	Project – Part 1 (Dissertation I + Defence of Project - I)	0	0	18	4+8=12
Total Practical						13
Total Semester						21

List of Electives

Choose any two out of six given below:

Micro Electrical and Mechanical Systems (MEMS)

Nanotechnology

Design of Experiments

Advanced Welding Technology

Rapid Prototyping

Simulation and Modeling

Second Year – Fourth Semester

S.No	Sub Code	Subjects	Contact Hours / Week			
			L	T	P	Total
1	PE491	Project–PartII (Dissertation II + Defence of Project - II)	0	0	24	6+18=24
Total						24