

DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

M. Tech. (Machine Design Engineering)

[illegible]

Program Elective Courses (Machine Design Engineering)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	MIN-500	Instrumentation and Experimental Methods	PEC	4	3	1	2/2	3	--	20	20	20	40	--
2.	MIN-502	Robotics and Control	PCC	4	3	1	2/2	3	--	20	20	20	40	--
3.	MIN-508	Advanced Automatic Control	PEC	4	3	1	0	3	--	25	--	25	50	--
4.	MIN-509	Extended Finite Element Methods	PEC	4	3	1	0	3	--	25	--	25	50	--
5.	MIN-547	Product and Process Optimization	PEC	4	3	1	0	3	--	25	--	25	50	--
6.	MIN-553	Industrial Tribology	PEC	4	3	1	0	3	--	25	--	25	50	--
7.	MIN-554	Computer Aided Mechanism Design	PEC	4	3	1	2/2	3	--	20	20	20	40	--
8.	MIN-555	Experimental Stress Analysis	PEC	4	3	1	2/2	3	--	20	20	20	40	--
9.	MIN-556	Dynamics of Road Vehicles	PEC	4	3	1	2/2	3	--	20	20	20	40	--
10.	MIN-558	Fracture Mechanics	PEC	4	3	1	0	3	--	25	--	25	50	--
11.	MIN-559	Computer Aided Design	PEC	4	3	1	2/2	3	--	20	20	20	40	--
12.	MIN-560	Mechanics of Composite Materials	PEC	4	3	1	0	3	--	25	--	25	50	--
13.	MIN-561	Advanced Mechanical Vibrations	PEC	4	3	1	2/2	3	--	20	20	20	40	--
14.	MIN-562	Noise Control in Mechanical Systems	PEC	4	3	1	2/2	3	--	20	20	20	40	--
15.	MIN-563	Mechatronics	PEC	4	3	1	2/2	3	--	20	20	20	40	--
16.	MIN-565	Smart Materials, Structures, and Devices	PEC	4	3	1	0	3	--	25	--	25	50	--
17.	MIN-602	Bond Graph Modelling of Engineering Systems	PEC	4	3	1	2/2	3	--	20	20	20	40	--