



M.Tech: Control System

Department of Electrical Engineering

University of Engineering & Management

Jaipur

M.Tech: Control System

Year: I

Semester: I

Theory Paper

Subject code	Subject Name	Teaching Hours Per Week		Duration of ESE	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
1MTCSE1	Basic Control System	3	1	3	20	80	100
1MTCSE2	Systems Engineering	3	1	3	20	80	100
1MTCSE3	Digital Control Systems	3	1	3	20	80	100
1MTCSE4	Elective-I 4.1 Real Time Instrumentation Techniques 4.2 Advance Power Electronics 4.3 Linear System Theory 4.4 Robot Dynamics & Control	3	1	3	20	80	100
1MTCSE5	Writing Skills & Presentation-I	4	-	3	20	80	100
	Total	16	4	-	100	400	500

Practical Papers

Subject Code	Subject Name	Teaching Hours Per Week	Duration Of ESE	Evaluation Scheme		
				Sessional	Practical	Total
1MTCSE6	Simulation Lab	6	3	60	40	100
	TOTAL	6	-	60	40	100
Total Semester Credit		23		Grand Total		600

L: Lecturer, T: Tutorial, ESE: End Semester Examination

M.Tech: Control System

Year: I

Semester: II

Theory Paper

Subject code	Subject Name	Teaching Hours Per Week		Duration of ESE	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
2MTCSE1	Control Devices	4	-	3	20	80	100
2MTCSE2	Modern Control System	3	1	3	20	80	100
2MTCSE3	Non-Linear And Adaptive Control	3	1	3	20	80	100
2MTCSE4	Elective-II 4.1 Optimal And Robust Control 4.2 Multi-Variable Control System 4.3 Measurement System & Error Analysis 4.4 Power System Dynamics & Control	3	1	3	20	80	100
2MTCSE5	Writing Skills & Presentation-II	4	0	3	20	80	100
	TOTAL	17	3	-	100	400	500

Practical Papers

Subject Code	Subject Name	Teaching Hours Per Week	Duration Of ESE	Evaluation Scheme		
				Sessional	Practical	Total
2MTCSE6	Control System Lab	6	3	60	40	100
	TOTAL	6	-	60	40	100
Total Semester Credits		23		Grand Total		600

L: Lecturer, T: Tutorial, ESE: End Semester Examination

M.Tech: Control System

Year: II

Semester: III

Theory Papers

Subject code	Subject Name	Teaching Hours Per Week		Duration of ESE	Evaluation Scheme		
		L	T		Mid Term Test	End Term Test	Total
3MTCSE1	Control Systems Design	4	-	3	20	80	100
3MTCSE2	Elective-II 2.1 Drives and control 2.2 Intelligent Control 2.3 Digital Signal Processing 2.4 Microprocessor Based Control System	3	1	3	20	80	100
	TOTAL	7	1	-	40	160	200

Practical Papers

Subject code	Subject Name	Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
3MTCSE3	Advance Control System Lab	6	3	60	40	100
3MTCSE4	Dissertation Part -I	12	3	180	120	300
	TOTAL	18	-	240	160	400
Total Semester Credits		17		Grand Total		600

L: Lecturer, T: Tutorial, ESE: End Semester Examination

M.Tech: Control System

Year: II

Semester: IV

Practical Papers

Subject Code	Subject Name	Teaching Hours Per Week	Duration of ESE	Evaluation Scheme		
				Sessional	Practical	Total
4MTCSE1	Dissertation Part–II	18	3	360	240	600
	TOTAL	18	-	360	240	600
Total Semester Credits		15		Grand Total		600

L: Lecturer, T: Tutorial, ESE: End Semester Examination