

RAJASTHAN TECHNICAL UNIVERSITY

**M.Tech. (Control & Instrumentation)
Teaching & Examination Scheme (Full Time)**

Semester : I

Course Code	Course	Hrs. / Week			Marks		
		L	T	P	IA*	Exam	Total
Compulsory Courses							
1MCI 1	Modern Control System	3	1		25	100	125
1MCI 2	Modeling of Dynamical Systems	3	1		25	100	125
1MCI 3	Measurement Systems & Error Analysis	3	1		25	100	125
Elective I (114-116)							
1MCI 4.1	Real-Time Instrumentation Techniques	3	1		25	100	125
1MCI 4.2	Biomedical Electronics	3	1		25	100	125
1MCI 4.3	Signal Theory	3	1		25	100	125
1MCI 5	Control and Computation Laboratory			3	60	40	100
TOTAL							600

Semester : II

Course Code	Course	Hrs. / Week			Marks		
		L	T	P	IA*	Exam	Total
Compulsory Courses							
2MCI 1	Digital Signal Processing	3	1		25	100	125
2MCI 2	Multi-Variable Control System	3	1		25	100	125
2MCI 3	Optimal Control System	3	1				
Elective II (215-217)							
2MCI 4.1	Artificial Neural Networks	3	1		25	100	125
2MCI 4.2	Large Scale System	3	1		25	100	125
2MCI 4.3	Adaptive Control System	3	1		60	40	100
2MCI 5	Modeling & Simulation Lab			3			600
TOTAL					IA*	Exam	Total

* I.A. – Internal Assessment

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Semester : III

Course Code	Course	Hrs. / Week			Marks		
		L	T	P	IA*	Exam	Total
	Compulsory Course						
3MCI 1	Digital Control System	3	1		25	100	125
	Elective III (312-314)						
3MCI 2.1	Power System Dynamics and Control	3	1		25	100	125
3MCI 2.2	Robotics and Automation	3	1		25	100	125
3MCI 2.3	Microprocessor based Control System	3	1		25	100	125
3MCI 3	Project (Stage-I)				100		100
3MCI 4	Seminar			3	90	60	150
	TOTAL						500

Semester : IV

Course Code	Courses	Hrs. / Week			Marks		
		L	T	P	IA*	Exam	Total
4MCI 1	Project (Stage-II)					500	500
	TOTAL						500
	GRAND TOTAL						2200

* I.A. – Internal Assessment