

**FIRST YEAR M. TECH ELECTRONICS ENGINEERING  
SYLLABUS STRUCTURE  
SEMESTER I**

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks) %			Practical (Marks) %	
							Max	Min % for Passing	Max	Min % for Passing	
EDS1013	Embedded System Design	3	1	--	4	ISE	20	40	40	--	--
						UT1	15			--	--
						UT2	15				
						ESE	50	40	--	--	
ECS1013	Automatic Control System	3	1	--	4	ISE	20	40	40	--	--
						UT1	15			--	--
						UT2	15				
						ESE	50	40	--	--	
ECS1023	Advanced Digital Signal Processing	3	1	--	4	ISE	20	40	40	--	--
						UT1	15			--	--
						UT2	15				
						ESE	50	40	--	--	
ECS1033	Research Methodology	1	--	2	2	ISE	--	--	--	50	50
						ESE	--	--		50	50
ECS1043	Programming Fundamentals	--	1	4	3	ISE	--	--	--	100	50
SHP551	Technical Communication	1		2	2	ISE	--	--	--	100	50
EDS1033	Embedded System Design Lab	--	--	2	1	ISE	--	--	--	50	50
						ESE	--	--		50	50
ECS1053	Automatic Control System Lab	--	--	2	1	ISE	--	--	--	50	50
						ESE	--	--		50	50
ECS1063	Advanced Digital Signal Processing Lab	--	--	2	1	ISE	--	--	--	50	50
						ESE	--	--		50	50
ECS1073	Seminar	--	--	2	2	ISE	--	--	--	100	50

Total Credits: 24, Total Contact Hours/Week: 30

**\*Audit course**

RIT-MT-LL	Liberal learning	--	--	--	--	P/F	Certificate issued by competent authority
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The course to be completed within span of two years as per guidelines given in the curriculum

**FIRST YEAR M. TECH. ELECTRONICS ENGINEERING**  
**SYLLABUS STRUCTURE**  
**SEMESTER II**

Course Code	Course		Teaching Scheme				Evaluation Scheme					
			L	T	P	Credits	Scheme	Theory (Marks) %		Practical (Marks) %		
								Max	Min % for Passing	Max	Min % for Passing	
SHP516	Advanced Mathematics Engineering		2	--	--	2	ISE	20	40		--	--
							UT	30			--	--
							ESE	50	40	--	--	
ECS2013	Radio Frequency Engineering		3	1	--	4	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--	--		
							ESE	50	40	--	--	
Elective I	EDS2023	Protocol and interfaces	3	1	--	4	ISE	20	40	40	--	--
	ECS2023	Mobile Communication Technology					UT1	15			--	--
							UT2	15	--	--		
							ESE	50	40	--	--	
Elective II	EDS2043	Embedded OS & Device Drivers	3	1	--	4	ISE	20	40	40	--	--
	ECS2033	Mobile Adhoc Network					UT1	15			--	--
							UT2	15	--	--		
							ESE	50	40	--	--	
Elective III	EDS2063	Mobile Application Development	3	--	--	3	ISE	20	40	40	--	--
	ECS2043	Security In Mobile And Wireless Systems					UT1	15			--	--
							UT2	15	--	--		
							ESE	50	40	--	--	
EDS2083	Soft computing		3	--	--	3	ISE	20	40	40	--	--
							UT1	15			--	--
							UT2	15	--	--		
							ESE	50	40	--	--	
Elective Lab I	EDS2093	Embedded System Lab I	--	--	4	2	ISE	--	--	--	50	50
	ECS2053	Communication Lab I					ESE	--			--	50
Elective Lab II	EDS2113	Embedded System Lab II	--	--	4	2	ISE	--	--	--	50	50
	ECS2063	Communication Lab II					ESE	--			--	50
ECS2073	Miniproject		--	--	2	2	ISE	--	--	--	100	50

Total Credits: 26, Total Contact Hours/Week: 30

**SECOND YEAR M. TECH ELECTRONICS ENGINEERING**  
**SYLLABUS STRUCTURE**  
**SEMESTER III**

Course Code	Course	Teaching Scheme				Evaluation Scheme			
		L	T	P	Credits	Scheme	Credits	Practical (Marks)	
								Max	Min % for Passing
ECS3013	Field Training/MOOC/NPTEL/Coursera/Courses suggested by BOS	--	--	--	2	ISE	2	100	50
ECS3023	Dissertation Phase-I	--	--	--	4	ISE	4	100	50
ECS3033	Dissertation Phase-II	--	--	5	10	ISE	4	100	50
ECS3043						ESE	6	100	50

Total Credits: 16, Total Contact Hours/Week: 05

**SECOND YEAR M. TECH ELECTRONICS ENGINEERING**  
**SYLLABUS STRUCTURE**  
**SEMESTER IV**

Course Code	Course	Teaching Scheme				Evaluation Scheme			
		L	T	P	Credits	Scheme	Credits	Practical (Marks)	
								Max	Min % for Passing
ECS4013	Dissertation Phase-III	--	--	--	08	ISE	8	100	50
ECS4023	Dissertation Phase-IV	--	--	5	10	ISE	4	100	50
ECS4033						ESE	6	100	50

Total Credits: 16, Total Contact Hours/Week: 05