

Symbiosis Institute of Technology, Pune
Master of Technology (Electronics and Tele-Communication Engineering)
Programme Structure 2018-20

1.	OBJECTIVE	<ul style="list-style-type: none"> To generate competent manpower in the emerging areas of Electronics and Telecommunication Technology. To inculcate among the students an aptitude for engineering and research for the furthering of knowledge in the chosen field. 			
2.	DURATION (IN MONTHS)	24 (Full Time)			
3.	INTAKE	18			
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)
			15	7.5	3
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)	
			2	15	
5.	ELIGIBILITY	Engineering graduate (B.E./B.Tech) from any recognised University/Institution of National Importance with a minimum of 50% marks or equivalent grade (45% Marks or equivalent grade for Scheduled Caste/Scheduled Tribes) in the discipline of Electrical/Electronics (Communication Engineering)/Electronics and Telecommunication or Instrumentation.			
6.	SELECTION PROCEDURE	GATE score or Entrance Test for non-GATE candidates			
7.	MEDIUM OF INSTRUCTION	English			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALIZATION	As per Annexure A			
10.	FEE		Academic Fee p.a	Institute Deposit	Total
		Indian Students	185000	20000	205000
		International Students (USD equivalent to INR)	280000	20000	300000
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% component as external [University] examination.			
12.	STANDARD OF PASSING	The assessment of students for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a			

		minimumCGPAof4outofmaximumof10CGPAfortheprogramme.					
13. AWARD OF DEGREE		MasterofTechnology(ElectronicsandTelecommunicationEngineering)willbe awardedattheendofsemesterIVexaminationbytakingintoconsiderationthe performanceofallsemesterexaminationsafterobtainingminimum4.00CGPAout of10CGPA.					
14. NATURE WISE DISTRIBUTION OF CREDITS							
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	22	4	0	0	0	0	26
2	24	5	0	0	0	1*	29
3	20	0	0	0	0	0	20
4	25	0	0	0	0	0	25
Total	91	9	0	0	0	0	100
*Satisfactorycompletionofthelettergradecourse'IntegratedDisasterManagement'ismandatoryforawardof degree.							

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

Symbiosis Institute of Technology, Pune
Master of Technology (Electronics and Tele-Communication Engineering)
Programme Structure 2018-20

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
Semester : 1									
Generic Core Courses									
T7086	070143101	Advanced Digital Signal Processing		4	80	120	0	0	200
T7100	070143102	Mechatronics		4	80	120	0	0	200
T7801	070143103	Advanced Digital Communication		4	80	120	0	0	200
T7088	070143104	Advanced Engineering Electromagnetics and Radiation Systems		4	80	120	0	0	200
T7674	070143105	Cyber Security		2	100	0	0	0	100
T7802	070143106	Electronics for Smart Cities		2	100	0	0	0	100
T7087	070143107	Advanced Digital Signal Processing Lab		1	0	0	20	30	50
T7101	070143108	Mechatronics Lab		1	0	0	20	30	50
Total				22	520	480	40	60	1100
Generic Elective Courses Group									
T7097	070143109	Embedded Automotive System		4	80	120	0	0	200
T7098	070143110	Lasers and Optical Electronics		4	80	120	0	0	200
Total Required Credits				4	80	120	0	0	200
Semester : 2									
Generic Core Courses									
T7026	070143201	Research Methodology in Engineering		3	60	90	0	0	150
T7813	070143202	Advanced wireless communication		4	80	120	0	0	200
T7109	070143203	Radar and Remote Sensing		4	80	120	0	0	200
T7093	070143204	Digital Image Processing		4	80	120	0	0	200
T7089	070143205	Advanced FPGA Design		4	80	120	0	0	200
T7805	070143206	Green Electronics		2	100	0	0	0	100
T7814	070143207	Advanced wireless communication Lab		1	0	0	20	30	50
T7094	070143208	Digital Image Processing Lab		1	0	0	20	30	50
T7806	070143209	Advanced FPGA Lab		1	0	0	20	30	50
T4005	070143216	Integrated Disaster Management *							Letter Grade
Total				24	480	570	60	90	1200
Generic Elective Courses Group									

Symbiosis Institute of Technology, Pune
Master of Technology (Electronics and Tele-Communication Engineering)
Programme Structure 2018-20

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
T7103	070143210	Mobile ad hoc Networks		4	80	120	0	0	200
T7096	070143211	Embedded and Real Time System		4	80	120	0	0	200
T7112	070143212	VLSI Digital Signal Processing System		4	80	120	0	0	200
Total Required Credits				4	80	120	0	0	200
Generic Elective Courses Group									
T7597	070143213	Mobile ad hoc Networks Lab		1	0	0	20	30	50
T7598	070143214	Embedded and Real Time System Lab		1	0	0	20	30	50
T7599	070143215	VLSI EDA Tool Lab		1	0	0	20	30	50
Total Required Credits				1	0	0	20	30	50
Semester : 3									
Generic Core Courses									
T7809	070143301	M.Tech Project		9	180	270	0	0	450
T7675	070143302	Review of Literature		8	160	240	0	0	400
T7677	070143303	Technical Writing and Seminars		3	60	90	0	0	150
Total				20	400	600	0	0	1000
Semester : 4									
Generic Core Courses									
T7851	070143401	Thesis		25	500	750	0	0	1250
Total				25	500	750	0	0	1250

Symbiosis Institute of Technology, Pune
Master of Technology (Electronics and Tele-Communication Engineering)
Programme Structure 2018-20

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	4	22	26	1300
Semester 2	2	27	29	1450
Semester 3	0	20	20	1000
Semester 4	0	25	25	1250
Total	6	94	100	5000