

SYMBIOSIS INSTITUTE OF TECHNOLOGY
MASTER OF TECHNOLOGY (ELECTRONICS AND TELECOMMUNICATION)
PROGRAM STRUCTURE 2015-17

- 1. OBJECTIVES**
 - 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** Two Years Full Time

- 3. INTAKE** 18 Students

- 4. RESERVATION**
 - I. Within the sanctioned intake:
 - a) Scheduled Castes-15%
 - b) Scheduled Tribes-7.5%
 - c) Differently abled-3%

 - II. Over and above the sanctioned intake:
 - a) Kashmiri Migrants - 2 Seats
 - b) International Students - 15%

- 5. ELIGIBILITY** At least 50% marks in B.Tech./B.E in Electrical, Electronics, Communication Engineering, Electronics and Telecommunication or Instrumentation (40% for SC/ST candidates)

- 6. SELECTION PROCEDURE** GATE score or Entrance Test for non-GATE candidates

- 7. MEDIUM OF INSTRUCTION** English

- 8. PROGRAMME PATTERN** Semester Pattern - 4 Semesters

- 9. COURSES & SPECIALIZATION** As per Annexure A

10. FEE**Indian Students**

Academic Fee p.a.	Rs. 1,50,000
Institute Deposit	Rs. 20,000
Total	Rs.1,70,000

International Students

Academic Fee p.a.	Rs. 2,25,000
Institute Deposit	Rs. 20,000
Total	Rs.2,45,000

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 the student 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 minimum CGPA of 4 out of maximum of 10 CGPA for the programme.

13. AWARD OF DEGREE

Master of Technology (Electronics and Telecommunication) M.Tech. (E&TC) degree will be awarded at the end of semester IV examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.

Annexure A Semester I

Catalog Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks				Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7086	070143101	Advanced Digital Signal Processing	C	4	-	-	-	-	80	120	4	200
T7100	070143102	Mechatronics	C	4	-	-	-	-	80	120	4	200
T7595	070143103	Random Variable and Stochastic Processes	ES	3	2	-	-	-	80	120	4	200
T7105	070143104	Non Linear Systems	C	4	-	-	-	-	80	120	4	200
T7088	070143105	Advanced Engineering Electromagnetics and Radiation Systems	C	4	-	-	-	-	80	120	4	200
T7674	070143106	Cyber Security	GP	2	-	-	-	-	100	-	2	100
T7087	070143107	Advanced Digital Signal Processing Lab	C	-	-	2	20	30	-	-	1	50
T7106	070143108	Non Linear Systems Lab	C	-	-	2	20	30	-	-	1	50
T7101	070143109	Mechatronics Lab	C	-	-	2	20	30	-	-	1	50
Elective – I (Choose any one)												
T7089	070143110	Advanced FPGA Design	C	4	-	-	-	-	80	120	4	200
T7097	070143111	Embedded Automotive System	C	4	-	-	-	-	80	120	4	200
T7098	070143112	Lasers and Optical Electronics	C	4	-	-	-	-	80	120	4	200
Total				25	2	6	60	90	580	720	29	1450

Semester II

Catalog Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks				Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7026	070143201	Research Methodology in Engineering	C	2	2	-	-	-	60	90	3	150
T7114	070143202	Wireless Communications and Mobile Computing	C	4	-	-	-	-	80	120	4	200
T7090	070143203	Alternate Energy	C	4	-	-	-	-	80	120	4	200
T7109	070143204	Radar and Remote Sensing	C	4	-	-	-	-	80	120	4	200
T7093	070143205	Digital Image Processing	C	4	-	-	-	-	80	120	4	200
T7094	070143206	Digital Image Processing Lab	C	-	-	2	20	30	-	-	1	50
T7113	070143207	Wireless Communication and Mobile Computing Lab	C	-	-	2	20	30	-	-	1	50
Elective II (Choose any one)												
T7103	070143208	Mobile ad hoc Networks	C	4	-	-	-	-	80	120	4	200
T7096	070143209	Embedded and Real Time System	C	4	-	-	-	-	80	120	4	200
T7112	070143210	VLSI Digital Signal Processing System	C	4	-	-	-	-	80	120	4	200
Elective III (Choose any one)												
T7597	070143211	Mobile ad hoc Networks Lab	C	-	-	2	20	30	-	-	1	50
T7598	070143212	Embedded and Real Time System Lab	C	-	-	2	20	30	-	-	1	50
T7599	070143213	VLSI EDA Tool Lab	C	-	-	2	20	30	-	-	1	50
			Total	22	2	6	60	90	460	690	26	1300
T4005	070143214	*Integrated Disaster Management	ID	-	-	-	-	-	-	-	-	Letter Grade

Semester III

Catalog Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks			Credits	Total Marks
				L	T	Lab	TW	CA	ESE		
T7809	070143301	M.Tech Project	PD	-	-	-	-	180	270	9	450
T7675	070143302	Review of Literature	PD	-	-	-	-	160	240	8	400
T7677	070143303	Technical Writing and Seminars	PD	-	-	-	-	60	90	3	150
Total				-	-	-	-	400	600	20	1000

Semester IV

Catalog Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks			Credits	Total Marks
				L	T	Lab	TW	CA	ESE		
T7851	070143401	Thesis	PD	-	-	-	-	500	750	25	1250
Total				-	-	-	-	500	750	25	1250

Summary

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester I	02	27	29	1450
Semester II	-	26	26	1300
Semester III	-	20	20	1000
Semester IV	-	25	25	1250
Total	02	98	100	5000

*Integrated Disaster Management is mandatory for the award of degree.

C – Core Course

ES – Engineering Science Course

GP – General Proficiency Course

TW – Term Work (Practical)

ESE – End Semester Examination

ID – Inter Disciplinary Course

PD – Professional Development Course

L – Lecture T– Tutorial

HA – Home Assignment

CA – Continuous Assessment