

SYMBIOSIS INSTITUTE OF TECHNOLOGYM.TECH. (E&TC)PROGRAMME STRUCTURE 2012-2014

1	Objectives	<ol style="list-style-type: none"> 1. To generate competent manpower in the emerging areas of Electronics and Telecommunication Technology. 2. To inculcate among the students an aptitude for engineering and research for the furthering of knowledge in the chosen field.
2	Duration	2 years
3	Proposed Intake	18
4	Reservation of Seats	I. Within the sanctioned intake SC-15% ST-7.5% Differently abled-3%
5	Eligibility	B.Tech ECE, EE
6	Selection Procedure	GATE score or entrance test for non-GATE
7	Medium of Instruction	English
8	Pattern of Programme	Semester: Master level with lectures, tutorials, practicals followed by dissertation/thesis in the final semester.
9	Subjects & Specialization	List of the courses attached
10	Fee Structure	Rs. 1,30,000/-
11	Examination and Method of Assessment	Internal tests, assignments, presentation and external exams both theory and practical.
12	Standard of Passing	As per grading system of the

university. The thesis/dissertation should be approved.

13 Award of Degree

On successful completion of all the internal and external components with a minimum overall CGPA of 2.0

Semester I											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credit	Total Marks
			L	T	La b	Practical		CA	ESE		
						Int	Ext				
070143101	Advanced Digital Signal Processing	C	4	0	0	0	0	80	120	4	200
070143102	Mechatronics	C	4	0	0	0	0	80	120	4	200
070143103	Random Variables and Stochastic Processes	ES	3	2	0	0	0	80	120	4	200
070143104	Non Linear Systems	C	4	0	0	0	0	80	120	4	200
070143105	Advanced Engineering Electromagnetics and Radiation Systems	C	4	0	0	0	0	80	120	4	200
070143106	Colloquium	PD	1	0	0	0	0	50	0	1	50
070143107	Advanced Digital Signal Processing Lab	C	0	0	2	20	30	0	0	1	50
070143108	Mechatronics Lab	C	0	0	2	20	30	0	0	1	50
070143109	Non Linear Systems Lab	C	0	0	2	20	30	0	0	1	50
		Total	20	2	6	60	90	450	600	24	1200

Semester II											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credit	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070143201	Research Methodology & Communication	C	2	2	0	0	0	60	90	3	150
070143202	Wireless Communications and Mobile Computing	C	4	0	0	0	0	80	120	4	200
070143203	Sensor Networks	C	4	0	0	0	0	80	120	4	200
070143204	Alternate Energy	C	4	0	0	0	0	80	120	4	200
070143205	Lasers and Optical Electronics	C	4	0	0	0	0	80	120	4	200
070143206	Digital Image Processing	C	4	0	0	0	0	80	120	4	200
070143207	Digital Image Processing Lab	C	0	0	2	20	30	0	0	1	50
070143208	Wireless Communications and Mobile Computing Lab	C	0	0	2	20	30	0	0	1	50
070143209	Lasers and Optical Electronics Lab	C	0	0	2	20	30	0	0	1	50
		Total	22	2	6	60	90	460	690	26	1300

Semester III										
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks
			L	T	Lab	TW	CA	ESE		
070143301	Project-1	PD	0	0	0	0	270	180	9	450
070143302	Seminar-I	PD	0	0	0	0	240	160	8	400
Elective I (Choose any one from 303 to 308)										
070143303	Telemetry and Transport Industry	C	4	0	0	0	80	120	4	200
070143304	Biomedical Sensors	C	4	0	0	0	80	120	4	200
070143305	Mobile ad hoc Networks	C	4	0	0	0	80	120	4	200
070143306	Embedded and Real Time Systems	C	4	0	0	0	80	120	4	200
070143307	Embedded Automotive System	C	4	0	0	0	80	120	4	200
070143308	Advanced FPGA Design	C	4	0	0	0	80	120	4	200
Elective II (Choose any one from 309 to 315)										
070143309	Neural Networks	C	4	0	0	0	80	120	4	200
070143310	Adaptive Signal Processing	C	4	0	0	0	80	120	4	200
070143311	System on Chip	C	4	0	0	0	80	120	4	200
070143312	Nanotechnology	C	4	0	0	0	80	120	4	200
070143313	VLSI Digital Signal Processing	C	4	0	0	0	80	120	4	200

	System									
070143314	Radars and Radars Systems	C	4	0	0	0	80	120	4	200
070143315	Sensors for Harsh Environment	C	4	0	0	0	80	120	4	200
070143316	Integrated Disaster Management Program	ID			0	0	150	0	3*	150
		Total	8	0	0	0	820	580	25+3	1400

*Internal Credits (Over and above)

Semester IV

Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks
			L	T	Lab	TW	CA	ESE		
070143401	Thesis	PD	0	0	0	0	750	500	25	1250
		Total	0	0	0	0	750	500	25	1250

Summary Structure

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester I	1	23	24	1200
Semester II	0	26	26	1300
Semester III	3(IDMP)	25	25+3	1250+150
Semester IV	0	25	25	1250
Total	1+3	99	100+3	5000+150

C - Core Subject
 PD - Professional Development Subject
 ES - Engineering Science Subject
 GP - General Proficiency Subject
 TW - Term Work (Practical)
 ID - Inter Disciplinary Subject
 L - Lecture, T - Tutorial, HA - Home Assignment
 CA - Continuous Assessment
 ESE - End Semester Examination