

SYMBIOSIS INSTITUTE OF TECHNOLOGY
MASTER OF TECHNOLOGY (COMPUTER SCIENCE)
PROGRAM STRUCTURE 2013-15

1	Objectives	<ul style="list-style-type: none">• To generate competent manpower in the emerging areas of Computer Science and Technology.• To inculcate among the students an aptitude for engineering and research for the furthering of knowledge in the chosen field.
2	Duration	2 Years Full Time
3	Intake	18 Students
4	Reservation of Seats	<p>I. Within the sanctioned intake:</p> <ul style="list-style-type: none">a) SC-15%b) ST-7.5%c) Differently abled-3% <p>II. Over and above the sanctioned intake:</p> <ul style="list-style-type: none">a) Kashmiri Migrants - 2 Seatsb) International Students – 15%
5	Eligibility	At least 55% marks in B Tech/B.E in Computer Science and Engineering or Information Technology
6	Selection Procedure	GATE score or entrance test for non-GATE candidates
7	Medium of Instruction	English
8	Program Pattern	Semester Pattern – 4 Semesters

9	Courses & Specialization	As per Annexure A
10	Fee	Rs. 1,40,000 p.a.+ Rs.10, 000 Institute Deposit
11	Assessment	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 60% internal component and 40% 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 4.000 corresponding to A+. For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 2.000 corresponding to Grade D. 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 2.000 out of maximum of 4.000 for the program.
13	Award of Degree	Master of Technology (Computer Science) will be awarded at the end of semester IV examination by taking into consideration the performance of all semester examinations after obtaining minimum 2.00 CGPA out of 4.000.

Annexure A

Semester I

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070144101	Applied Algorithms	C	4	-	-	-	-	80	120	4	200
070144102	Advanced Computing	C	4	-	-	-	-	80	120	4	200
070144103	Advanced Numerical Methods in Engineering	ES	3	-	-	-	-	60	90	3	150
070144104	Network Computing	C	3	-	-	-	-	60	90	3	150
070144105	Advanced Databases	C	4	-	-	-	-	80	120	4	200
070144106	Applied Algorithms Lab	C	-	-	2	20	30	-	-	1	50
070144107	Advanced Computing Lab	C	-	-	2	20	30	-	-	1	50
070144108	Advanced Numerical Methods in Engineering Lab	ES	-	-	2	20	30	-	-	1	50
070144109	Network Computing Lab	C	-	-	2	20	30	-	-	1	50
070144110	Advanced Databases Lab	C	-	-	2	20	30	-	-	1	50
070144111	Cyber Security	C	2	-	-	-	-	100	-	2	100
		Total	20	-	10	100	150	460	540	25	1250

Semester II

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070144201	Web Technologies and SOA	C	4	-	-	-	-	80	120	4	200
070144202	Research Methodology	PD	2	2	-	-	-	60	90	3	150
070144203	Information Systems: Tools and Techniques	C	4	-	-	-	-	80	120	4	200
070144204	Software Product Line Management	C	4	-	-	-	-	80	120	4	200
070144205	Intelligent Systems	C	3	-	-	-	-	60	90	3	150
070144206	Software Testing and Quality Assurance	C	3	-	-	-	-	60	90	3	150
070144207	Web Technology and SOA Lab	C	-	-	2	20	30	-	-	1	50
070144208	Information Systems: Tools and Techniques Lab	C	-	-	2	20	30	-	-	1	50
070144209	Intelligent Systems Lab	C	-	-	2	20	30	-	-	1	50
070144210	Software Testing and Quality Assurance Lab	C	-	-	2	20	30	-	-	1	50
		Total	20	2	8	80	120	420	630	25	1250
070144211	*Integrated Disaster Management	-	-	-	-	-	-	-	-	1	-

Semester III

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks
			L	T	Lab	TW	CA	ESE		
070144301	Project -I	PD	-	-	-	-	270	180	9	450
070144302	Seminar-I	PD	-	-	-	-	240	160	8	400
070144303-05	Elective-I	C	4	-	-	-	80	120	4	200
070144306-08	Elective-II	C	4	-	-	-	80	120	4	200
		Total	8	-	-	-	670	580	25	1250

List of Elective	
Elective - I (Choose any one)	
070144303	Enterprise Resource Planning
070144304	Human Computer Interface
070144305	Advanced Multimedia Techniques
Elective - II (Choose any one)	
070144306	Network Security
070144307	Data Mining
070144308	Design Pattern

Semester IV

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks
			L	T	Lab	TW	CA	ESE		
070144401	Thesis	PD	-	-	-	-	750	500	25	1250
		Total	-	-	-	-	750	500	25	1250

Marks Distribution of Continuous Assessment: 60 marks for two unit test and 20 marks for assignment/quiz/presentations

Summary

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester I	02	23	25	1250
Semester II	-	25	25	1250
Semester III	-	25	25	1250
Semester IV	-	25	25	1250
Total	02	98	100	5000

*Integrated Disaster Management course 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