

SYMBIOSIS INSTITUTE OF TECHNOLOGY
MASTER OF TECHNOLOGY (COMPUTER SCIENCE)
PROGRAM STRUCTURE 2014-16

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| 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 | Two Years Full Time |
| 3. INTAKE | 24 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 Computer Science and Engineering or Information Technology (45% for SC/ST candidates) |
| 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**Indian Students**

Academic Fee p.a. Rs. 1,40,000

Institute Deposit Rs. 10,000

Total Fee Rs. 1,50,000**International Students**

Academic Fee p.a. Rs. 2,10,000

Institute Deposit Rs. 10,000

Total Fee Rs. 2,20,000**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 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) M.Tech. (CS) 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

Temporary Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credit	Total Marks
				L	T	Lab	Practical		CA	ESE		
							Int	Ext				
T7059	070144101	Applied Algorithms	C	4	-	-	-	-	80	120	4	200
T7055	070144102	Advanced Computing	C	4	-	-	-	-	80	120	4	200
T7004	070144103	Advanced Numerical Methods in Engineering	ES	3	-	-	-	-	60	90	3	150
T7070	070144104	Network Computing	C	3	-	-	-	-	60	90	3	150
T7057	070144105	Advanced Databases	C	4	-	-	-	-	80	120	4	200
T7060	070144106	Applied Algorithms Lab	C	-	-	2	20	30	-	-	1	50
T7056	070144107	Advanced Computing Lab	C	-	-	2	20	30	-	-	1	50
T7005	070144108	Advanced Numerical Methods in Engineering Lab	ES	-	-	2	20	30	-	-	1	50
T7071	070144109	Network Computing Lab	C	-	-	2	20	30	-	-	1	50
T7058	070144110	Advanced Databases Lab	C	-	-	2	20	30	-	-	1	50
T7674	070144111	Cyber Security		2	-	-	-	-	100	-	2	100
			Total	20	-	10	100	150	460	540	25	1250

Semester II

Temporary Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credit	Total Marks
				L	T	Lab	Practical		CA	ESE		
							Int	Ext				
T7114	070144201	Wireless Communications and Mobile Computing	C	4	-	-	-	-	80	120	4	200
T7026	070144202	Research Methodology in Engineering	PD	3	-	-	-	-	60	90	3	150
T7093	070144203	Digital Image Processing	C	4	-	-	-	-	80	120	4	200
T7137	070144204	Design Patterns	C	4	-	-	-	-	80	120	4	200
T7068	070144205	Intelligent Systems	C	3	-	-	-	-	60	90	3	150
T7139	070144206	Software Testing and Quality Assurance	C	3	-	-	-	-	60	90	3	150
T7113	070144207	Wireless Communication and Mobile Computing Lab	C	-	-	2	20	30	-	-	1	50
T7094	070144208	Digital Image Processing Lab	C	-	-	2	20	30	-	-	1	50
T7069	070144209	Intelligent Systems Lab	C	-	-	2	20	30	-	-	1	50
T7080	070144210	Software Testing and Quality Assurance Lab	C	-	-	2	20	30	-	-	1	50
			Total	21	-	8	80	120	420	630	25	1250
T4005	070144211	*Integrated Disaster Management	-	-	-	-	-	-	-	-	-	Letter Grade

Semester III

Temporary Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks
				L	T	Lab	TW	CA	ESE		
T7809	070144301	M.Tech Project	PD	-	-	-	-	270	180	9	450
T7675	070144302	Review of Literature	PD	-	-	-	-	240	160	8	400
Elective-I (Choose any one from 303 to 305)											
T7062	070144303	Enterprise Resource Planning	C	4	-	-	-	80	120	4	200
T7065	070144304	Human Computer Interaction	C	4	-	-	-	80	120	4	200
T7659	070144305	Artificial Intelligence and Neural Networks	C	4	-	-	-	80	120	4	200
Elective-II (Choose any one from 306 to 308)											
T7066	070144306	Information Systems: Tools and Techniques	C	4	-	-	-	80	120	4	200
T7061	070144307	Data Mining	C	4	-	-	-	80	120	4	200
T7083	070144308	Web Technologies and SOA	C	4	-	-	-	80	120	4	200
			Total	8	-	-	-	670	580	25	1250

Semester IV

Temporary Course Code	Course Code	Course Title	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credit	Total Marks
				L	T	Lab	TW	CA	ESE		
T7851	070144401	Thesis	PD	-	-	-	-	750	500**	25	1250
			Total	-	-	-	-	750	500	25	1250

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 is mandatory for the award of degree.

** ESE would be Final VIVA-VOCE conducted by the institute.

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