SYMBIOSIS INSTITUTE OF TECHNOLOGY
BACHELOR OF TECHNOLOGY
PROGRAM STRUCTURE 2013-17

1.	**OBJECTIVE**	The B.Tech. Program aims at transforming a student into a technically sound professional. The syllabus contains courses on basic sciences, technical arts, humanities and liberal arts and professional courses. The mix of courses has been evolved with an aim to produce professionals who have knowledge not only of Engineering but who are also good managers to contribute in a cross-functional team and have human values. Being a professional program it ensures a healthy balance between theoretical foundation and practical exposure to the present day world. The emphasis is to develop all round personality that would enable the students to take up the challenges of the corporate world and also become responsible citizens of society.
2.	**DURATION**	Four Years - Full Time
3.	**INTAKE**	420 Students
4.	**RESERVATION**	I. Within the sanctioned intake: a) SC – 15% b) ST – 7.5% c) Differently Abled - 3% II. Over and above the sanctioned intake: a) Kashmiri Migrants - 2 Seats b) International Students – 15%
5.	**ELIGIBILITY**	• 10+2 or equivalent examination from any statutory Board with 60% aggregate marks in Physics, Chemistry and Mathematics • SC/ST candidates with 55% aggregate marks in Physics, Chemistry and Mathematics
6.	**SELECTION PROCEDURE**	Merit list by valid scores of Symbiosis Entrance Test (SET), MH-CET and IIT-JEE
7.	**MEDIUM OF INSTRUCTION**	English

8.	**PROGRAM PATTERN**	Semester Pattern - 8 Semesters
9.	**COURSES & SPECIALIZATIONS**	Civil Engineering, Computer Science and Engineering, Electronics and Telecommunication Engineering, Information Technology and Mechanical Engineering As per Annexure A
10.	**FEE**	Indian Students (INR) 1,95,000 p.a. + Institute Deposit (one time) INR 10,000 International Students (USD equivalent to INR) 3,00,000 p.a.+ Institute Deposit (one time) INR 10,000
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. The internal and external will be separate heads of passing.
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**	**Bachelor of Technology (B Tech)** will be awarded in any one of the specializations: Civil Engineering, Computer Science & Engineering, Electronics and Telecommunication Engineering, Information Technology, Mechanical Engineering based on the cumulative performance of all semester examinations taken together after obtaining minimum 2.00 CGPA out of 4.000.

Semester I

GROUP : A	F.Y. B. Tech Common for all Branches										
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
						Practical					
			L	T	Lab	Int	Ext	CA	ESE		
070121101FY	Engineering Mathematics I	ES	4	2	-	-	-	50	75	5	125
070121102FYA	Basic Mechanical Engineering	C	3	-	-	-	-	30	45	3	75
070121103 FYA	Environmental & Civil Engineering	C	3	-	-	-	-	30	45	3	75
070121104 FYA	Physics	ES	3	-	-	-	-	30	45	3	75
070121105 FYA	Computer Programming	C	2	-	-	-	-	20	30	2	50
070121106 FYA	Basic Mechanical Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121107 FYA	Environmental & Civil Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121108 FYA	Physics Lab	ES	-	-	2	10	15	-	-	1	25
070121109 FYA	Computer Programming Lab	C	-	-	2	10	15	-	-	1	25
070121110 FYA	Workshop Practice	C	-	-	4	20	30	-	-	2	50
070121111 FYA	Cyber Security	ID	2	-	-	-	-	50	-	2	50
	Total		**17**	**2**	**12**	**60**	**90**	**210**	**240**	**24**	**600**

GROUP : B	F.Y. B. Tech Common for all Branches										
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
						Practical					
			L	T	Lab	Int	Ext	CA	ESE		
070121101FY	Engineering Mathematics I	ES	4	2	-	-	-	50	75	5	125
070121102FYB	Basic Electrical & Electronics Engineering	C	3	-	-	-	-	30	45	3	75
070121103 FYB	Engineering Mechanics	C	3	-	-	-	-	30	45	3	75
070121104 FYB	Chemistry	ES	3	-	-	-	-	30	45	3	75
070121105 FYB	Engineering Graphics	C	2	4	-	-	-	40	60	4	100
070121106 FYB	Communication Skills	GP	2	-	-	-	-	50	-	2	50
070121107 FYB	Basic Electrical & Electronics Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121108 FYB	Engineering Mechanics Lab	C	-	-	2	10	15	-	-	1	25
070121109 FYB	Chemistry Lab	ES	-	-	2	10	15	-	-	1	25
070121110FYB	Communication Skills Lab	GP	-	-	2	10	15	-	-	1	25
	Total		**17**	**6**	**8**	**40**	**60**	**230**	**270**	**24**	**600**

Semester II

GROUP : A	F.Y. B. Tech Common for all Branches										
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
						Practical					
			L	T	Lab	Int	Ext	CA	ESE		
070121201FY	Engineering Mathematics II	ES	4	2	-	-	-	50	75	5	125
070121202FYA	Basic Electrical & Electronics Engineering	C	3	-	-	-	-	30	45	3	75
070121203 FYA	Engineering Mechanics	C	3	-	-	-	-	30	45	3	75
070121204 FYA	Chemistry	ES	3	-	-	-	-	30	45	3	75
070121205 FYA	Engineering Graphics	C	2	4	-	-	-	40	60	4	100
070121206 FYA	Communication Skills	GP	2	-	-	-	-	50	-	2	50
070121207 FYA	Basic Electrical & Electronics Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121208 FYA	Engineering Mechanics Lab	C	-	-	2	10	15	-	-	1	25
070121209 FYA	Chemistry Lab	ES	-	-	2	10	15	-	-	1	25
070121210FYA	Communication Skills Lab	GP	-	-	2	10	15	-	-	1	25
	Total		**17**	**6**	**8**	**40**	**60**	**230**	**270**	**24**	**600**

GROUP : B	F.Y. B. Tech Common for all Branches										
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
						Practical					
			L	T	Lab	Int	Ext	CA	ESE		
070121201FY	Engineering Mathematics II	ES	4	2	-	-	-	50	75	5	125
070121202FYB	Basic Mechanical Engineering	C	3	-	-	-	-	30	45	3	75
070121203 FYB	Environmental & Civil Engineering	C	3	-	-	-	-	30	45	3	75
070121204 FYB	Physics	ES	3	-	-	-	-	30	45	3	75
070121205 FYB	Computer Programming	C	2	-	-	-	-	20	30	2	50
070121206 FYB	Basic Mechanical Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121207 FYB	Environmental & Civil Engineering Lab	C	-	-	2	10	15	-	-	1	25
070121208 FYB	Physics Lab	ES	-	-	2	10	15	-	-	1	25
070121209 FYB	Computer Programming Lab	C	-	-	2	10	15	-	-	1	25
070121210 FYB	Workshop Practice	C	-	-	4	20	30	-	-	2	50
070121211 FYB	Cyber Security	ID	2	-	-	-	-	50	-	-	-
	Total		**17**	**2**	**12**	**60**	**90**	**210**	**240**	**24**	**600**

L- Lecture , T-Tutorial,

C - Core Course

ES - Engineering Science

GP - General Proficiency

ID - Inter Disciplinary

PD - Professional Development

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Int- Internal (Practical)

Ext- External (Practical)

Practical external examination may be conducted by alternate internal faculty