Course Structure and Syllabus of the Framework

6.1 Course Structure of B. Tech (CSE)

		1st Semester					
S. No.	Subject Code	Names of subjects	L	T	P	С	TCP
		Basic Science Course (BSC)			_		
1	PHY022C101	Physics	3	1	0	4	4
2	MAT022C102	Mathematics – I	3	1	0	4	4
3	PHY022C111	Physics Lab	0	0	2	1	2
	ı	Engineering Science Course (ESC)	T	1	T	1	T
4	CSE022C103	Basic Electrical Engineering	3	1	0	4	4
5	CEE022C104	Engineering Graphics & Design	1	0	4	3	5
6	CSE022C113	Basic Electrical Engineering Lab	0	0	2	1	2
	Hu	manities/Social Science including Management Course (HSMC)				
7	BHS022A101	Universal Human Values: Understanding Harmony and Ethical Human Conduct	2	1	0	3	3
		Mandatory Courses (MC)/ Skill Enhancement Courses	s				
8	COD022S116	Design Thinking	0	0	2	1	2
9	CSE022S117	Ideation Lab	0	0	2	1	2
		TOTAL	12	4	12	22	28
10		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0
		2 nd Semester	1				
S. No.	Subject Code	Names of subjects	L	T	P	С	TCP
		Basic Science Course (BSC)					
1	CHY022C201	Chemistry	3	1	0	4	4
2	MAT022C202	Mathematics – II	3	1	0	4	4
3	CSE022C203	Biology for Engineers	3	0	0	3	3
4	CHY022C211	Chemistry Lab	0	0	2	1	2
		Engineering Science Course (ESC)	•			•	
4	CSE022C204	Programming for Problem Solving	3	0	0	3	3
5	MEE022C215	Manufacturing Practices Workshop	1	0	4	3	5
6	CSE022C214	Programming for Problem Solving Lab	0	0	4	2	4
	Hu	manities/Social Science including Management Course (HSMC)	1	I	1	1
7	CEN022A201	English for Technical Writing	2	0	0	2	2
	1	Mandatory Courses (MC)/ Skill Enhancement Courses	S	1	I.	1	<u>.I</u>
8	CSE022S217	Sports and Yoga	0	0	2	1	2
	1	1.					

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		TOTAL	15	2	12	23	29	
9		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0	
3 rd Semester								
S. No.	Subject Code	Names of subjects	L	T	P	C	TCP	
		Professional Core Course (PCC)						
1.		Discrete Mathematics	3	1	0	4	4	
2.		Data Structures and Algorithms	3	0	0	3	3	
3.		IT Workshop (Python Programming)	1	0	4	3	5	
4.		Data Structures and Algorithms Lab	0	0	4	2	4	
		Engineering Science Course (ESC)						
5.		Digital Logic and Design	3	0	0	3	3	
6.		Digital Logic and Design Lab	0	0	4	2	4	
		Humanities	•					
7.		Principles of Management	3	0	0	3	3	
		IKS	•					
8.		Indian Knowledge System-I	3	0	0	3	3	
		TOTAL	16	1	12	23	29	
9.		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0	
		4 th Semester	1	I		l		
S. No.	Subject Code	Names of subjects	L	Т	P	С	ТСР	
J. 14U.	Jubject Coue	Professional Core Course (PCC)		1 1			101	
1.		Computer Organisation and Architecture	3	0	0	3	3	
2.		Design and Analysis of Algorithms	3	0	0	3	3	
3.		Formal Language and Automata Theory	3	1	0	4	4	
			3					
4.		Advanced Programming Design and Applysis of Algorithms Lab		1	0	4	4	
5.		Design and Analysis of Algorithms Lab	0	0	4	2	4	
		IKS	1 2	_	_	2		
6.		Indian Knowledge System-II	3	0	0	3	3	
		Humanities	T 2	T				
7.		Organizational Behaviour/Finance & Accounting	3	0	0	3	3	
Т		Environmental Science	1	1	1	ı		
8.		Environmental Sciences	1	0	0	1	1	
		TOTAL	19	2	4	23	25	
9.		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0	
		5th Semester		_			_	
S. No.	Subject Code	Names of subjects	L	T	P	C	TCP	
		Professional Core Course (PCC)						
1.		Operating Systems	3	0	0	3	3	
2.		Machine Learning	3	1	0	4	4	
3.		Database Management Systems	3	0	0	3	3	
4.		Operating Systems Lab	0	0	4	2	4	
5.		Database Management Systems Lab	0	0	4	2	4	
6.		Machine Learning Lab	0	0	4	2	4	
		Engineering Science Course (ESC)						
7.		Signal and Systems	3	0	0	3	3	
	Hu	manities/Social Science including Management Course ((HSMC)					
8.		Constitution of India	3	0	0	3	3	
		TOTAL	15	1	12	22	26	
		TOTAL	13		14			

9.		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0
		6 th Semester					
S. No.	Subject Code	Names of subjects	L	T	P	С	TCF
		Professional Core Course (PCC)					
1.		Computer Networks	3	0	0	3	3
2.		Compiler Design	3	0	0	3	3
3.		Computer Networks Lab	0	0	4	2	4
		Professional Elective Course (PEC)					
4.		Introduction to Cyber Security	3	0	0	3	3
5.		Professional Elective Course-I	3	0	0	3	0
6.		Professional Elective Course-II	3	0	0	3	0
7.		Introduction to Cyber Security Lab	0	0	4	2	4
		Project		•			
8.		Project-I	0	0	6	3	6
		TOTAL	15	0	14	22	23
9.		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0
		7th Semester		•			
S. No.	Subject Code	Names of subjects	L	T	P	С	TC
		Professional Core Course (PCC)		•			
1.		Web Technology	3	0	0	3	3
2.		Web Technology Lab	0	0	4	2	4
		Professional Elective Course (PEC)					
3.		Professional Elective Course-III	3	0	0	3	3
		Open Elective		•			
4.		Open Elective-I	3	0	0	3	3
		Internship		•			
5.		Internship	0	0	0	3	0
		Project/ Dissertation		•			
6.		Project-II	0	0	12	6	12
		TOTAL	9	0	16	20	25
7.		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0
		8th Semester					
S. No.	Subject Code	Names of subjects	L	T	P	С	TC
		Professional Elective Course (PEC)					
1.		PEC-IV	3	0	0	3	3
		Open Elective					
2.		Open Elective-II	3	0	0	3	3
3.		Open Elective-II	3	0	0	3	3
•		Project/ Dissertation					
4.		Project-II	0	0	12	6	12
		TOTAL	9	0	12	15	21
5		Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]	0	0	0	3	0