Degree: B. Tech. CSE Total Credit: 160

	Third Semester						Fourth Semester				
Code	Subject Name	L	Т	P	C	Code	Subject Name	L	T	P	C
	0	3	0	()	3	MAS21XX /	Statistics & Probability/	3	0	0	3
MEEGOVVI	Statistics & Probability/ Engineering Economics					MEE22XX Engineering Economics			· ·		
	Management of Technology	3	0	0	3	CSE2201	Design and Analysis of	3	1	0	4
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ivianagement of Teenhology					0.52201	Algorithms				
CSE2101	Data Structures and Algorithms	3	1	0	4	CSE2202	Operating Systems	3	1	0	4
CSE2102	Relational Database	3	1	0	4	CSE2221/CSE	Cryptography/ High	3	1	0	4
CSEZIUZ	Management System					2222 2222	Performance Computing		1		'
CSE2103	Computer Organization &	3	1	0	4	CSE22XX	Program Elective 1	3	0	0	3
	Architecture										
CSE2121/C	Object Oriented Programming	3	1	0	4	CSE00XX	Open Elective 1	3	0	0	3
SE2122	using Java/ Object Oriented										
	Programming using Python								_		
CSE2131	Data Structures and Algorithms	0	0	2	1	CSE2231	Design and Analysis of	0	0	2	1
COFIGA	Lab	0					Algorithms Lab		_		
CSE2132	Relational Database	0	0	2	1	CSE2232	Operating Systems Lab	0	0	2	1
GGT-1-0	Management System Lab	_	0	2	1	CCEAATA	D ' - 1 1 1 2 2 2		0	2	1
CSE2170	Project-based Learning 1	0	0	2	1	CSE2270	Project-based Learning 2	0	0	2	1
		18	4	6	25			18	3	6	24
	Total Contact Hours (L+T+P)		4	28	L		Total Contact Hours (L+T+P)		27		
	Fifth Semester						Sixth Semester				
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
CSE3101	Computer Networks	3	1	0	4	CSE3201	Machine Learning	3	1	0	4
CSE3102	Software Engineering	3	1	0	4	CSE32XX	Program Elective 4	3	0	0	3
CSE3121/C	Artificial Intelligence & Soft	3	1	0	4	CSE32XX	Program Elective 5	3	0	0	3
SE3122	Computing / Visual Computing						rogium Ereen e				
CSE31XX	Program Elective 2	3	0	0	3	CSE32XX	Program Elective 6	3	0	0	3
CSE31XX	Program Elective 3	3	0	0	3	CSE00XX	Open Elective 3	3	0	0	3
CSE00XX	Open Elective 2	3	0	0	3	CSE3230	Professional Practice	0	0	2	1
CSE3131	Computer Networks Lab	0	0	2	1	CSE3231	Machine Learning Lab	0	0	2	1
CSE3132	Software Engineering Lab	0	0	2	1	CSE3232	Emerging Tools &	0	0	2	1
	Software Engineering Dao						Technology				
CSE3170	Project-based Learning 3	0	0	2	1	CSE3270	Project-based Learning 4	0	0	6	3
		1.0	2		2.4			1.5	1	10	22
		18	3	6	24			15	1	12	22
	Total Contact Hours (L+T+P)			27			Total Contact Hours (L+T+P)		28		

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	Seventh Semester						Eighth Semester				
Code	Subject Name	L	Т	P	С	Code	Subject Name	L	Т	P	C
CSE41XX	Program Elective 7	3	0	0	3	CSE4271	Major Project	0	0	24	12
CSE41XX	Program Elective 8	3	0	0	3						
CSE00XX	Open Elective 4	3	0	0	3						
CSE00XX	Open Elective 5	3	0	0	3						
CSE4171	Internship (Industry or Research)	0	0	2	1						
	,	12	0	2	13						12
	Total Contact Hours (L+T+P)			14			Total Contact Hours (L+T+P)		24		

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Flexi Core					
Flexi Core 1 (III Sem)	Flexi Core 2 (IV Sem)	Flexi Core 3 (V Sem)			
CSE2121: Object Oriented Programming using Java.	CSE2221: Cryptography	CSE3121: Artificial Intelligence & Soft Computing			
CSE2122: Object Oriented Programming using Python	CSE2222: High Performance Computing	CSE3122: Visual Computing			

Program Electives							
IV	V	VI	VII				
 Example - PE1 CSE2240: Automata and Compiler Design CSE2241: Data Visualization Techniques 	 Example - PE2 CSE3140: Cloud Infrastructures & Virtualization CSE3141: Predictive Analytics Example - PE3 CSE3142: Android App Development CSE3143: Advanced Java CSE3144: Advanced Data Structures CSE3145: Game Theory CSE3146: Software Testing & Automation 	 Example - PE 4 CSE3240: Cloud Applications CSE3241: Computer Vision CSE3242: Web Framework CSE3243: Ethical Hacking Example - PE5 CSE3244: Secure Programming CSE3245: Cloud Security and Privacy CSE3246: Natural Language Processing CSE3247: Agile Methodology CSE3248: Explainable AI Example - PE6 CSE3249: Digital Forensics and Cyber Crimes CSE3250: Fog and Edge Computing CSE3251: Deep Learning CSE3252: UI/UX Design CSE3253: DevOps 	 Example - PE 7 CSE4140: Blockchain Technologies CSE4141: Cloud Automation Tools CSE4142: Social Network Analysis CSE4143: Recommender Systems Example - PE8 CSE4144: Information Retrieval CSE4145: Virtual & Augmented Reality CSE4146: Quantum Computing CSE4147: Cognitive Computing CSE4148: Reinforcement Learning 				

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Open Electives					
Graded OE	Non-Graded OE				
	OE1 CSE0051: Data Structures				
	OE2 CSE0052: Python Programming				
	OE3 CSE0053: Fundamental of Cyber Security				
	OE4 CSE0054 : Digital Forensics and Cyber Crimes				
	OE5 CSE0055: Cyber Physical System				
	OE6 CSE0056: Ethical Hacking & Penetration Testing				
	OE7 CSE0057: Robotics Process Automation				
	OE8 CSE0058: Introduction to R Programming				
	OE9 CSE0059: Analytics Insights (PWC)				

B. Tech. with Minor Specialization CSE

For B. Tech. with a Minor, a student needs to earn an additional 18 credits (over and above the required 160 credits for B. Tech. degree). The list of courses of each Minor program, their respective credits weightage, and semester-wise breakup of the courses are listed along with the Minor specialization table.

The weekly instruction hours, internal and external evaluation, and award of grades are on par with the regular 4-Years B. Tech. program.

S.	Offering	Minor Program	Eligible Branch of students	Award of Degree
No	Department			
1	CSE	Computer Science	Biotechnology, Mechanical, Mechatronics,	B. Tech. in branch name
		with Minor in CSE		
		18		