

Minor in Bio Technology (Applicable for CE, CSE, ECE, ECM, EEE, ME,)

S.No	Code	Name of the Course	L-T-P	Credits
1	19BT3060	Bioanalytical techniques	4-0-0	4
2	19BT3061	Bioinformatics	4-0-0	4
3	19BT3062	Food Technology	4-0-0	4
4	19BT3063	Anatomy and Physiology	4-0-0	4
5	19BT3064	Bionanotechnology	4-0-0	4

Minor in Civil Engineering (Applicable for BT, CSE, ECE, ECM, EEE, ME)

S.No	Course ID	Course Name	L-T-P-S	Credits
1	19CE2101	Solid Mechanics	3-0-2-0	4
2	19CE3101	Design of Reinforced Concrete Structures	3-0-2-0	4
3	19CE2206	Geotechnical Engineering	3-0-2-0	4
Any two	from the follow	ing courses		
5	19CE3103	Transportation Engineering	3-0-2-0	4
6	19CE3102	Water Resource Engineering	3-1-0-0	4
7	19CE2204	Environmental Engineering	3-0-2-0	4
8	19CE3201	Quantity surveying & Estimations	3-0-2-0	4
9	19CE2103	Surveying	3-0-2-0	4

Minor in Electrical Engineering (Applicable for CSE, ECM, ME, CE and BT)

S.No	Course ID	Course Name	L-T-P-S	Credits
1	19EE2101	Electrical Circuits	3-0-2-0	4
2	19EE2102	Electrical Power Engineering	3-1-0-0	4
3	19EE2103	Electrical Machines	3-0-2-0	4
4	19EE2202	Power Electronics	3-0-2-0	4

5	19EE2204	Control Systems	3-0-2-0	4

Minor in Communications (Applicable for CSE, ECM, EEE, ME, CE and BT)

	Course			
S.No	Code	Course Name	L-T-P-S	Credits
1	20 EC 5206	Advanced Communication Systems & Networks	3-0-2-0	4
2	20 EC 5207	Modern Radar Systems and Autonomous Vehicles	3-1-0-0	4
3	20 EC 5208	Optical Networks & Satellite Communications	3-0-0-0	3
4	20 EC 5128	MOS Circuit Design	3-1-2-0	5
5	20 EC 5233	Low power VLSI System Design	3-0-2-0	4

Minor in Mechanical Engineering (Applicable for CSE, ECM, EEE, CE and BT)

S.No	Course ID	Course Name	L-T-P-S	Credits
	201452405		2000	2
1	20ME2105	Thermodynamics	3-0-0-0	3
2	20ME2101	Mechanics of Solids	3-0-2-0	4
3	20ME2106	Fluid Mechanics & Hydraulic Machines	3-0-2-0	4
4	20ME2107	Manufacturing Techniques	3-0-2-0	4
5	20ME2211	Analysis of Mechanisms and Machines	3-0-2-0	4

Minor Program Offered by Department of CSE for UnderGraduate Students										
Minor in Computer Science & Engineering (ME, CE, BT)										
Course Title L T P S Cr Offered Sem										
1. Computer Organization & Architecture	2	2	0	0	4	5				
2. Operating Systems	3	0	2	0	4	5				
3. Database Management Systems	3	0	2	0	4	5				
4. Elements of Software Construction	2	2	0	0	4	6				
5. Computer Networks & Security	2	2	0	0	4	6				
TOTAL	12	6	4	0	20					
Minor in Computer Science & Engineering (ECE, EEE, ECM)		-		•						
Course Title	L	Т	Р	S	Cr	Offered Sem				
1. Operating Systems	3	0	2	0	4	5				
2. Database Management Systems	3	0	2	0	4	5				
3. Cloud & Serverless Computing	3	0	2	0	4	6				
4. Data Visualization Techniques	2	0	2	0	3	6				
5. Automata Theory & Compiler Design	3	2	0	0	5	6				
TOTAL	14	2	8	0	20					

Minor in Computer Science (BBA, BCom, BA, BSc)		-		-		-
Course Title	L	Т	Р	S	Cr	Offered Sem
1. Programming Essentials in Python	3	0	2	0	4	ļ
2. Database Management Systems	3	0	2	0	4	!
3. Elements of Software Construction	2	2	0	0	3	!
4. Al for Data Science	3	0	4	0	5	(
5. Operating Systems	3	0	2	0	4	(
6. Full Stack Web Development	3	0	2	0	4	(
TOTAL	17	2	12	0	24	
Minor in Enterprise Web Application Development						
Course Title	L	Т	Р	S	Cr	Offered Sem
1. Database Management Systems	3	0	2	0	4	
2. Programming Essentials in Python	3	0	2	0	4	
3. Elements of Software Construction	2	2	0	0	3	!
4. Full Stack Web Development	3	0	2	0	4	
5. Enterprise Programming	3	0	4	0	5	
TOTAL	14	2	10	0	20	
						-
Minor in Data Science					•	
Course Title	L	Т	Р	S	Cr	Offered Sem
1. Database Management Systems	3	0	2	0	4	<u></u>
2. Al for Data Science	3	0	4	0	5	<u></u>
3. Data Visualization Techniques	3	0	2	0	4	
4. Data Warehousing & Mining	2	0	2	0	3	
5. Applied Data Science	3	0	2	0	4	
TOTAL	14	0	12	0	20	
Minor Program Offered by Department of CSE for U	nde	rGr	adu	ate	e Stu	ıdents
Minor in Artificial Intelligence & Machine Learning		-				
Course Title	L	Т	Р	S	Cr	Offered Sem
1. Al for Data Science	3	0	4	0	5	I
2. Data Visualization Techniques	3	0	2	0	4	Į
3. Machine Learning	3	0	2	0	4	(
4. Soft Computing	3	0	2	0	4	(
5. Natural Language Processing	2	0	2	0	3	(
TOTAL	14	0	12	0	20	
Minor in Applied Artificial Intelligence				1	1	
Course Title	L	Т	Р	S	Cr	Offered Sem
1. Machine Learning	3	0	2	0	4	

2. Data Visualization Techniques	3	0	2	0	4		5
3. Deep Learning	3	0	2	0	4		6
4. Natural Language Processing	2	0	2	0	3		6
5. Applied Machine Learning	3	0	4	0	5		6
TOTAL	14	0	12	0	20		
Minor in Cyber Security							
Course Title	L	Т	Р	S	Cr	Offered Sem	
1. Computer Networks & Security	2	2	0	0	4		5
2. Crypt Analysis & Cyber Defence	3	0	2	0	4		5
3. Network & Infrastructure Security	3	0	2	0	4		6
4. Security Policies & Governance	3	0	0	0	3		6
5. Digital Forensics	3	0	4	0	5		6
TOTAL	14	2	8	0	20		
Minor in Blockchain & CryptoCurrencies							
Course Title	L	Т	Р	S	Cr	Offered Sem	
1. Introduction to Blockchain & Cryptocurrencies	2	0	2	0	3		5
2. Crypt Analysis & Cyber Defence	3	0	2	0	4		5
3. Smart Contracts & Programming in Solidity	3	0	4	0	5		6
4. Applied Blockchain & Fintech	3	0	0	0	3		6
5. Full Stack Blockchain Development	3	0	4	0	5		6
TOTAL	14	0	12	0	20		
Minor in Cloud Computing		-		•		-	
Course Title	L	Т	Р	S	Cr	Offered Sem	
1. Cloud & Serverless Computing	2	0	2	0	3		5
2. Cloud Infrastructre & Resources	2	0	2	0	3		5
3. Elements of Software Construction	2	2	0	0	4		5
4. Cloud Analytics	3	0	4	0	5		6
5. Cloud DevOps	3	0	4	0	5		6
TOTAL	12	2	12	0	20		