Division	Faculty of Engineering and Technology
School Name	School of Computer Science & Engineering
Department Name	Department of Computer Engineering and Technology
Programme Name	B.Tech Computer Science and Engineering (Cyber Security and Forensics)

Sem-I	**20**
Programme Foundation	**13**
Chemistry	3
Engineering Graphics	3
Ideas and Innovation in Manufacturing	1
Linear Algebra and Differential Calculus	3
Physics	3
University Core	**7**
Effective Communication	1
Environment and Sustainability	1
Foundations of Peace	2
Indian Constitution	1
Learning to Learn	1
Yoga -I	1
Sem-II	**20**
Programme Capstone Project/Problem Based Learning/Seminar and Internships	**4**
Computer Architecture and System Design	4
Programme Foundation	**11**
Biology for Engineers	2
Discrete Mathematics with Graph Theory	3
Engineering Mechanics	3
Problem Solving with Programming	3
University Core	**5**
Co-Creation	1
Critical Thinking	1
Digital Literacy	1
Financial Literacy	1
Yoga -II	1
Sem-III	**23**
Programme Capstone Project/Problem Based Learning/Seminar and Internships	**4**
Data Structures Lab	1
Object Oriented Concepts using C++	2
Project Based Learning - I	1
Programme Foundation	**4**
Differential Equations and Transform Techniques	4
Programme Major	**7**
Computer Networks	4
Data Structures	3
University Core	**4**
Research Innovation Design Entrepreneurship (RIDE)	1
Rural Immersion	1

Spiritual and Cultural Heritage: Indian Experience	2
University Elective	**4**
University Electives - I	4
Sem-IV	**21**
Programme Capstone Project/Problem Based Learning/Seminar and Internships	**1**
Project Based Learning - II	1
Programme Foundation	**4**
Probability and Statistics	4
Programme Major	**12**
Database Management Systems	4
Information and Cyber Security	4
Operating Systems	4
University Elective	**4**
University Electives - II	4
Sem-V	**22**
Programme Capstone Project/Problem Based Learning/Seminar and Internships	**4**
Embedded Systems and Internet of Things Laboratory	1
Project Based Learning - III	1
Software Project Planning and Management	2
Programme Elective	**4**
Professional Elective-I	4
Programme Major	**8**
Artificial Intelligence and Machine Learning Techniques	4
Design and Analysis of Algorithms	3
Full Stack Development Laboratory	1
University Core	**2**
Managing Conflicts Peacefully: Tools and Techniques	2
University Elective	**4**
University Elective-III	4
Sem-VI	**21**
Programme Capstone Project/Problem Based Learning/Seminar and Internships	**3**
Mini Project Development	1
Project Based Learning - IV	1
Seminar	1
Programme Elective	**4**
Professional Elective -II	4
Programme Major	**12**
Cloud Infrastructure and Security	3
Digital Forensics and Investigation	3
Ethical Hacking	3
Theory of Computation	3
University Core	**2**
National Academic Immersion	2
Sem-VII	**19**
Programme Capstone Project/Problem Based Learning/Seminar and Internships	**6**

	Capstone Project	6
Programme Elective		**4**
	Professional Elective -III	4
Programme Major		**9**
	Blockchain Technology Concepts and application	3
	Security Management, Cyber Laws and Ethics	2
	System Software and Compiler Design	4
Sem-VIII		**14**
Programme Capstone Project/Problem Based Learning/Seminar and Internships		**10**
	Internship	10
Programme Elective		**4**
	Professional Elective -IV	4
Grand Total		**160**

LIST OF ELECTIVES

Semester	Course Name/ Course Title	Programme Elective
V	Bigdata Technologies	Programme Elective- I
V	Data Privacy	Programme Elective- I
V	Enterprise Infrastructure Security	Programme Elective- I
V	Identity Management	Programme Elective- I
VI	Augmented Reality and Virtual Reality	Programme Elective- II
VI	Wireless and Mobile Device Security	Programme Elective- II
VI	Incident Response and Malware Analysis	Programme Elective- II
VI	Cyber Threat and Intelligence Management	Programme Elective- II
VII	High Performance Computing	Programme Elective- III
VII	Cyber Physical System Security	Programme Elective- III
VII	Data Science for Cybersecurity and Forensics	Programme Elective- III
VII	Risk Assessment and Security Policies	Programme Elective- III
VIII	User Interface and User Experience Design	Programme Elective- IV
VIII	Security and Privacy in Social Media	Programme Elective- IV
VIII	Application and Web security	Programme Elective- IV
VIII	Attack, Reporting and Documentation	Programme Elective- IV