

Semester	Courses
I	Engineering Mathematics - I
	Basic Electrical & Electronics Engineering
	Programming for Problem Solving
	Introduction to engineering
	Presentation and Communication Techniques
	Physics

Semester	Courses
II	Engineering Mathematics - II
	Chemistry
	Workshop (Electronics and Computer Hardware assembly)
	Introduction to Python Programming
	Digital Logic & System Design
Life Skills	

III	Engineering Mathematics - III
	Computer Organization & Architecture
	Data Structures and Algorithms
	Database Management Systems
	Principles of Economics and Management
	Operating Systems
	Constitution of India
	Innovation and Entrepreneurship

IV	Engineering Mathematics - IV
	Formal Language and Automata Theory
	Software Engineering
	Design and Analysis of Algorithms
	Computer Networks
	Web Programming
	Embedded Systems

V	Object Oriented Analysis & Design
	Principles of Cybersecurity
	Data Warehousing & Mining
	Cost & Financial Accounting for Engineers
	Professional Practice
	Introduction to Psychology
	Elective - I
	Environmental Sciences

VI	Applied Cryptography
	Digital Forensics
	Vulnerability Assessment and Penetration Te
	Machine Learning & Artificial Intelligence
	Reverse Engineering & Malware Analysis
	Research Methods for cybersecurity
	Elective - II
	Open Elective -I

VII	Application Security Testing
	Human aspect in Cybersecurity
	Cybersecurity Risk Management
	Legal Aspect
	Incident Response
	Elective - III
	Elective - IV
	Open Elective - II

VIII	Technical Internship/Project
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Elective - I	
Code	Subject
	E1.1: Internet of Things
	E1.2: Cloud Computing
	E1.3: Database Administration
	E1.4: Advanced Data Structures
	E1.5: Human Computer Interaction

Elective - II	
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Code	Subject
	E2.1: Cryptanalysis
	E2.2: Mobile Forensics
	E2.3: Blockchain Security and Forensics
	E2.4: ICS Security and Forensics
	E2.5: Designing Security Policies and Implementation

Elective - III	
Code	Subject
	E3.1: Security Operations Center
	E3.2: Big Data and Hadoop
	E3.3: Advanced Topics in Cryptography
	E3.4: Threat Intelligence
	E3.5: Advanced Attacks

Elective - IV	
Code	Subject
	E4.1 Security Metrics
	E4.2 Security DevOps
	E4.3 Virtualization Security and Forensics
	E4.4 Reverse Engineering of Mobile and IoT Devices
	E4.5 Threat Modelling