DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CSE)
COURSE STRUCTURE

Admitted Batch: 2025

I SEMESTER	II SEMESTER	III SEMESTER	IV SEMESTER	V SEMESTER	VI SEMESTER	VII SEMESTER	VIII SEMESTER
Emerging Technologies In Computer Science	Computer Graphics	Engineering Mathematics-II	Artificial Intelligence & Machine Learning	Compiler Design	Cloud Computing and Virtualization	Departmental Elective# (DE-3)	Departmental Elective* (DE-5)
Computer Programming	Object oriented Programming & Methodology	Data Structures	Design and Analysis of Algorithms	Soft Computing Techniques	Ad-hoc Networks	Departmental Elective* (DE-4)	Open Category Course* (OC-3)
Digital Electronics	Computer System and Organization	Database Management System	Automata Theory	Data Science	Departmental Elective* (DE-2)	Open Category Course (OC-2)	Industry Internship/ Research Internship/ Innovation & Start-up
Cyber World and Security Concern	Operating Systems	Software Engineering	Networking with TCP/IP	Departmental Elective* (DE-1)	Open Category Course (OC-1)	Specialization Course (SPC-3)	Professional Development
Engineering Mathematics-I	Basic Electrical & Electronics Engineering	Computer Networks	Discrete Structure	Specialization Course (SPC-1)	Specialization Course (SPC-2)	Creative Problem Solving	**Honours or Minor Degree (Optional)**
Computer Programming Lab	Computer Graphics & Modelling Lab	Data Structures Lab	Artificial Intelligence & Machine Learning Lab	Augmented & Virtual Reality Lab	IoT & Embedded System Lab	Skill Enhancement Program/Research Internship/	
Digital Electronics Lab	Object oriented Programming & Methodology Lab	Database Management System Lab	Design and Analysis of Algorithms	Data Science Lab	Java Programming Lab	**Honours or Minor Degree (Optional)**	
Novel Engaging Course	Electrical & Electronics Engineering Lab	Problem Solving through Python Programming	Competitive Programming	Cornerstone Project	Capstone Project		
Language Lab	Novel Engaging Course	Novel Engaging Course	Novel Engaging Course	Supply Chain Management	Disaster Management		
Micro Project-I	Micro Project-II	Macro Project-I	Macro Project-II	**Honours or Minor Degree**	**Honours or Minor Degree (Optional)**		
Universal Human Values & Professional Ethics	Sustainability &	Cyber Security	Project Management,				
Skill Internship Program		Skill Internship Program	**Honours or Minor Degree (Optional)**				

Legend:

(green)	Departmental Core Courses
(cyan)	Engineering Science Courses
(magenta)	Basic Science Courses
(olive)	Mandatory Audit Courses

Note:
1. *Mandatory Workshops in each semester at Department Level (Duration: Two Days)*

Departmental Elective Courses	
Deep Learning	
Distributed Computing	
Advance Computer Architecture	
Open Category Courses	
Computer Graphics	
Software Engineering	
Database Management System	
Computer Networks	
Specialization Courses Tracks	
Specialization in Visual Information Processing	**Specialization in Information Security**
Information Retrieval and Extraction	Cryptography
Image Processing	Network Security
Pattern Recognition	IoT and its Security
Human Computer Interaction	Digital Forensics