Curriculum Flow Chart - B.E. Computer Science and Engineering

Legend:
- Basic Science Courses
- Professional Core Courses
- Engineering Science Courses
- Abillity Enhancement Courses
- Professional Elective Courses
- Open Elective Courses
- Projects

- - - → Dependency Course
——— → Pre-requisite Course

1st Sem
- Applied Mathematics - I
- Engineering Chemistry
- Fundamentals of Programming
- Basic Electrical Engineering
- Elements of Mschanical Engineering

2nd Sem
- Applied Mathematics - II
- Engineering Graphics and Design
- Engineering Physics
- Basic Electronics
- Engineering Mechanics

3rd Sem
- Applied Mathematics - III
- Digital Design and Computer Organization
- Data Structures and Applications
- Object-Oriented Programming with Java
- Engineering Science Course
- Biology for Engineers
- NCMC

4th Sem
- Applied Mathematics - IV
- Microprocessors and Microcontrollers
- Design and Analysis of Algorithms
- Web Programming
- Engineering Science Course
- Ability Enhancement Course
- Universal Human Values
- NCMC

5th Sem
- Database Management Systems
- Computer Networks
- Fullstack Development/ Architecture of IoT
- Research Methodology and IPR / Project Management
- Environmental Studies
- Ability Enhancement Course
- Professional Elective - I
- Open Elective - I
- NCMC

6th Sem
- Software Engineering/ Crptography & Cybersecurity
- Machine Learning
- Compiler Design/Software Design Patterns/IOT Communication Protocol
- Research Methodology and IPR / Project Management
- Ability Enhancement Course
- Mini Project
- Professional Elective - 2
- Open Elective - 2
- NCMC

7th Sem
- Cloud Computing/ Block Chain Technolog
- Advanced Databases & Analytics/ Integration of Cloud Computing with Internet of Things
- Project Phase - 1
- Professional Elective - 3
- Open Elective - 3

8th Sem
- Research Internship
- Project Phase - 2
- Ability Enhancement Course