Curriculum Flowchart

Legend: Foundation Program | English Essentials | Computing Essentials

Semester 1
- CE1010 (3c) Engineering Mechanics
- CO1010 (3c) Programming for Engineers I
- EE1010 (3c) Electricity
- EF1010 (3c) English for Communication I
- EM1010 (4c) Calculus I
- MA1010 (2c) Ethics and Sustainability

Semester 2
- CO1020 (5c) Computer Systems Programming
- CO1030 (2c) Data Structures and Algorithms I
- EE1810 (3c) Electronics
- EM1020 (3c) Linear Algebra
- EM1030 (2c) Differential Equations
- EM1050 (3c) Discrete Mathematics

Short Semester (8w)
- EFXXX/MAXXX (9c total) General Electives

Semester 3
- CO2010 (4c) Digital Circuits Design
- CO2020 (3c) Computer Networking
- CO2030 (3c) Data Structures and Algorithms II
- CO2040 (2c) Software Design and Development
- EM2060 (3c) Numerical Methods
- EM2020 (2c) Probability and Statistics
- CO2060 (2c) Software Systems Design Project

Semester 4
- CO2070 (4c) Computer Architecture
- CO2080 (3c) Network Design Principles
- CO2050 (2c) Database Systems
- EE2820 (3c) Applied Electronics
- EM2010 (2c) Calculus II
- (3c total) Technical Electives

Semester 5
- CO3010 (4c) Embedded Systems
- CO3040 (3c) Cloud Computing Systems
- EF1020 (2c) English for Communication II
- (6c total) Technical Electives
- CO3060 (6c) Computer Systems Design Project

Semester 6
- CO3020 (3c) Operating Systems
- CO3030 (2c) Computer Systems Security
- CO3050 (3c) Signal Processing
- CO3090 (2c) Machine Learning Theory
- (4c total) Technical Electives
- CO3100 (1c) Research Methodology

Short Semester (8w)
- CO4010 (2c) Professional Practices for Computer Engineers
- CO4020 (2c) Software Project Management
- CO4030 (2c) Information Systems Management
- CO4060 (6c) Computer Engineering Research Project

Semester 7
- CO3070 (3c) Fundamentals of Artificial Intelligence
- CO3080 (2c) Applied Operating Systems
- (10c total) Technical Electives

Industrial training
- EF4010 (6c) Industrial Training