

## CCE PROPOSED STUDY PLAN

### FIRST YEAR

#### Fall Semester

- Mathematics I
- Mechanics I
- Engineering Graphics
- General Chemistry
- Physics I
- English language

#### Spring Semester

- Mathematics II
- Mechanics II
- Production Engineering
- Computer Programming
- Physics II
- Human Rights

### SECOND YEAR

#### Fall Semester

- Mathematics III
- Programming I
- Modern Physics
- Electrical Circuits I
- Probability and Statistics
- Discrete Structure
- Technical Writing

#### Spring Semester

- Mathematics IV
- Programming II
- Electric Circuits II
- Digital Logic Circuits I
- Data Structures
- Engineering Economics

### THIRD YEAR

#### Fall Semester

- System Programming
- Signals and Systems
- Electronic Circuits Analysis
- Digital Logic Circuits II
- Computer Organization
- Project Management

#### Spring Semester

- Control Systems
- Digital Signal Processing
- Analysis and Design of Algorithms
- Operating Systems
- Computer Architecture
- Humanities

### FOURTH YEAR

#### Fall Semester

- Analog Communication Theory
- Microprocessors Systems
- Database Systems
- Computer Networks
- Elective(1)
- Law and Engineering Ethics

#### Spring Semester

- Multimedia Systems
- Embedded Systems
- Digital Communications
- Elective (2)
- Elective (3)
- Humanities

### FIFTH YEAR

#### Fall Semester

- Communication Systems
- Net-Centric Computing
- Elective(4)
- Elective(5)
- Humanities
- Project I

#### Spring Semester

- Computer and Network Security
- Performance Evaluation
- Elective (6)
- Elective (7)
- Humanities
- Project II

**Elective Courses**

Digital Integrated Circuit Design.

VLSI Fabrication & Design.

Advanced Computer Architecture.

Electromagnetics.

DSP implementation of Communication Systems.

Mobile & Wireless Communications.

Antennas & Wave Propagation.

Microwave & Optical Transmission Media.

Modern Control Systems

Software Engineering.

Programming Language Translation.

Switching Theory & Models of Computing.

Artificial Intelligence.

Optimization Techniques.

Pattern Recognition.

Computer Graphics.

New Trends in CCE.