CET Curriculum Maps
Courses and Activities Mapped to BS in Computer Engineering Technology Outcome Set
OBJ 1: Problem solving skills
Students will learn problems solving skills.

Objective 1.1: Computer systems and networks
Students will apply computer languages, including those of physics, electrical and computer systems, to design and implement solutions to problems in the field.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design
Six credits from:
Management
Internet Technology
Data Communications and Microcontroller Applications
ECT 308
Computer Network Management
ECT 306
Software
Microcontroller Hardware and Applications
ECT 303
Computer Design Technology
ECT 232
Digital Computer Logic
ECT 231
D. C. Circuits and Design
ECT 165
A. C. Circuits and Design
ECT 162
Computer Design Technology
CS 256
Principles of Structured Design
ECT 211
Digital Computer Logic
ECT 202
Digital Computer Circuits
ECT 281
Robotics Controls
ECT 301
Technical Data Management and Applications
ECT 303
Microcontroller Hardware and Software
ECT 308
Computer Network Management Technology
ECT 306
Microcontroller Applications and Interfacing
ECT 401
Computer Communications and Internl. Technology

Management
Six credits from:
ECT 493
Practical Digital Logic Design
ECT 497
Industrial Computer Systems Management
ECT 490
Senior Seminar
ECT 496
Senior Project

Objective 1.2: Commanding contemporary tools
Students will learn how to command contemporary tools.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 1.3: Design skills
Students will learn design skills.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 2.1: Apply estimation tools
Students will apply estimation tools to verify the computer systems design.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 2.2: Analyze lab data
Students will analyze lab data using statistical tests.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 4.1: Plan experiments
Students will plan experiments to build microcontroller-based circuitry.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 4.2: Conduct experiments
Students will conduct experiments to build microcontroller-based circuitry.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 4.3: Follow safety procedures
Students will follow safety procedures to build microcontroller-based circuitry.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 4.4: Evaluate lab results
Students will evaluate lab data using statistical procedures.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 5.1: Develop plans
Students will develop plans to build microcontroller-based circuitry.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 5.2: Follow plans
Students will follow plans to build microcontroller-based circuitry.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 6.1: Analyze ethics
Students will analyze the ethical implications of computer systems.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 7.1: Professional societies
Students will join professional societies.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 8.1: Livelong learning
Students will engage in lifelong learning.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 8.2: Teamwork
Students will engage in team-based projects.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

Objective 9.1: Communicate
Students will communicate effectively.

ECT 430
Industrial Computer Systems
ECT 437
Practical Digital Logic Design

ECT 130
Introduction to Electronics and Computer Technology
ENG 307
Technical Writing
ECT 165
D. C. Circuits and Design
ECT 167
A. C. Circuits and Design
ECT 162
Computer Design Technology
CS 256
Principles of Structured Design
ECT 211
Digital Computer Logic
ECT 202
Digital Computer Circuits
ECT 281
Robotics Controls
ECT 301
Technical Data Management and Applications
ECT 303
Microcontroller Hardware and Software
ECT 308
Computer Network Management Technology
ECT 306
Microcontroller Applications and Interfacing
ECT 401
Computer Communications and Internl. Technology

ECT 493
Practical Digital Logic Design
ECT 497
Industrial Computer Systems Management
ECT 490
Senior Seminar
ECT 496
Senior Project

Courses and Learning Activities

ECT 130
Introduction to Electronics and Computer Technology
ECT 165
D. C. Circuits and Design
ECT 167
A. C. Circuits and Design
ECT 162
Computer Design Technology
CS 256
Principles of Structured Design
ECT 211
Digital Computer Logic
ECT 202
Digital Computer Circuits
ECT 281
Robotics Controls
ECT 301
Technical Data Management and Applications
ECT 303
Microcontroller Hardware and Software
ECT 308
Computer Network Management Technology
ECT 306
Microcontroller Applications and Interfacing
ECT 401
Computer Communications and Internl. Technology
ECT 493
Practical Digital Logic Design
ECT 497
Industrial Computer Systems Management
ECT 490
Senior Seminar
ECT 496
Senior Project