

COMPUTER ENGINEERING TECHNOLOGY (CET)

CET 304 Digital System Design (3 Credits)

Study of the building blocks of digital system design: encoders, decoders, comparators, multiplexers, demultiplexers, adders, subtractors, arithmetic logic unit, programmable logic devices and an introduction to microprocessors.

CET 304L Digital Systems Design Laboratory (1 Credits)

Practical experience in building and testing digital systems and methods with emphasis on programmable logic devices, programming and introduction to microcontrollers.

CET 305 Computer Organization (3 Credits)

Study of microcomputer operating systems with emphasis on MS-DOS, utility and diagnostic software, virus protection, preventative maintenance data protection and recovery, computer architecture and design.

CET 305L Computer Organization Laboratory (1 Credits)

Practical experience in DOS commands, windows, utility and diagnostic software and data protection and recovery.

CET 315 Microprocessors (3 Credits)

Study of the microprocessor as a programmable device. The 80286, 80386 and 80486 microprocessors will be examined with primary emphasis on the 80286. Examination of the instruction set to program the microprocessor is covered, and applications using the assembler program will be studied.

CET 315L Microprocessor Laboratory (1 Credits)

This course is an introduction to the detailed knowledge of microcontroller peripherals and their use. The course makes use of the Microchip IDE (integrated development environment) and the assembler to control complex systems.

CET 336 Computer Networks Technology (3 Credits)

Introduction to the administration of computer networks with emphasis on management of users workstation and other system resources, including the Internet and intranets.

CET 336L Computer Networks Technology I Laboratory (1 Credits)

This course is the laboratory component of CIT 336 Computer Networks I lecture. Students will perform laboratory exercises on such topics as cabling, programming network devices and setting up simple networks.

CET 340 Soil and Foundations (3 Credits)

Contact the department for specific course information

CET 432 Computer Interfaces & Peripheral Devices (3 Credits)

Study of computer interfaces and peripheral device programming, operation, and interfacing of the microprocessor, and the programming/operation of the numeric co-processor, which provide an understanding of applications such as control systems, video graphics, and computer-aided design (CAD) with emphasis on The Advanced Intel Microprocessor Family.

CET 432L Computer Interfaces Laboratory (1 Credits)

Course consists of individual or small group projects of building a Microprocessor controlled robot.

CET 436 Computer Networks Technology II (3 Credits)

The study of advanced networking concepts. Topics include variable length, subnet masking, link state router protocols, Internet Protocol Version 6 (IPV6), Virtual Lans (VLANS), Asynchronous transfermode (ATM), Virtual Private Networks, Security, Voice over Internet Protocol (VOIP) and optical networking.

CET 436L Computer Networks Technology II Laboratory (1 Credits)

This course is the laboratory component for CIT 436 lecture. The student will perform laboratory exercises related to computer network design, development and troubleshooting.