ACADEMIC AFFAIRS

Course Number: ELEC 140   Department: Electrical Engineering Tech.

Course Title: Programming/MicroComputer Semester: Spring   Year: 1999

Objectives/Competencies

Course Objective	Competencies
1. To comprehend the basic operation of the computer as a tool for word processing, software loading and operation, hardware construction, input/output operation, operating systems, QBASIC programming and data processing.	1. Demonstrate through observation, performance and examination the loading, operation and application of various software systems and examples of their capabilities.
2. To learn the basic architecture and operation of the computer system, peripheral devices, floppy disk and hard disk storage and retrieval and input and output devices.	1. Demonstrate through practice, observation and examination the ability to save and load various files associated with the prescribed software applications and peripheral systems and equipment.
3. To gain expertise through assignments in applying the computer to the various tasks involved in daily work requirements in school and industry.	1. Apply the skills associated with computer operation and programming to exercises designed to enhance these skills and exams and labs that will apply the fundamentals to the various applications.
4. To be capable to writing BASIC programs that will demonstrate the ability to use the computer to problem solve and acquire and process information.	1. Through the use of assignments, lab projects and exams, the students will perform measured coding of the solutions

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5. To be able to edit existing and debug existing programs and codes. 6. To apply programming skills to solve problems in the field of electronics, robotics and electrical and automated systems.	to these problems on a computer system. 1. By requiring the student to edit and repair programs and routines to the instructor's satisfaction and prescribed specifications. 1. Through examination, labs and applied programming, the student will exhibit competency in programming, saving, loading, executing and documenting BASIC code which solve various problems.