

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: SYSTEMS MANAGEMENT

Code No.: CET 312

Program: COMPUTER ENGINEERING

Semester: FOUR

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APPROVED: *J.P. Crozitto*
Chairperson

_____ Date

**CET 312
SYSTEMS MANAGEMENT OBJECTIVES**

GENERAL

The objectives of the systems management course are to provide the student with the skills required to install and maintain an operating system (RSX11M) on the PDP-11 computer. The course is predominantly a lab course although tests will be given to assess the skills learned.

BLOCK 1: MCR OPERATIONS

At the end of this block the student will be familiar with the Monitor Console Routine (MCR), which is the user interface or language that allows you to communicate with the operating system. In general the student should become familiar with the more common commands required to deal with the system in a knowledgeable way.

BLOCK 2: WRITING COMMAND FILES

At the end of this block the student should be able to write useful command procedures and to become familiar with the two types of command procedures, ICP directives, special symbols, symbol substitution, and ICP switches.

BLOCK 3: SYSTEM ORGANIZATION

At the end of this block the student will be familiar with the structure of the RSX11M operating system. In particular the following will be discussed-

- Major components of RSX11M
- Memory structure
- Priorities, tasks and task states
- Round robin scheduling
- Checkpointing
- Swapping
- The shuffler
- Interrupt processing
- System traps
- Executive directives

BLOCK 4: SYSTEM GENERATION (SYSCEN)

At the end of this block the student will be able install an RSX11M operating system on a PDP-11 system. The student will be required to know the operation of the hardware, and the steps required in installing an operating system.

BLOCK 5: SOFTWARE MAINTAINANCE AND UPDATES

At the end of this block the student will be able to discuss the need for software updates, perform autopatch procedures and updates, and become familiar with the system utilities and procedures for maintaining the operating system.