

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: INTRODUCTION TO OPERATING SYSTEMS

Code No.: EDP 111

Program: PROGRAMMER

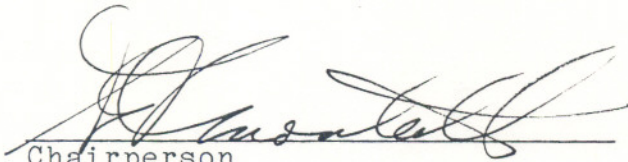
Semester: TWO

Date: WINTER, 1987

Author: R.D. LAILEY

New: _____ Revision: X

APPROVED:


Chairperson

87-01-19
Date

INTRO TO OPERATING SYSTEMS

EDP 111

Course Name

Course Number

TEXT:

Introduction to VAX/VMS, by Shannon; Professional Press

AIMS AND OBJECTIVES:

This course covers a number of topics related to the commands and utilities which are normally available to users in a modern multi-user operating system. In order to provide direct hands-on experience, the major focus will be the VAX/VMS operating system. At the start of the course a number of elementary VAX hardware features will be examined. Knowledge of these features will be useful when the features of VAX/VMS are examined later in the course.

Upon completion of this course, students will be able to effectively utilize VAX/VMS in the following areas:

- utilize on-line and printed documentation to obtain information about VMS
- utilize necessary commands and utilities to create, compile, and run programs in both interactive and batch environment
- use logical names and symbols to modify your working environment
- create and manage disk files and libraries
- create and utilize command procedures
- communicate with other users and with the system operator

STUDENT EVALUATION:

Tests	60%	OR	Tests	30%
Assignments/Quizzes	30%		Assignments/Quizzes	30%
Attendance/Participation	10%		Final Test	30%
			Attendance/Part.	10%
	<u>100%</u>			<u>100%</u>

The final test will cover the entire semester and may be written to substitute for a failed or missed term test provided.....

- (1) minimum 75% class attendance
- (2) term grade is greater than 45%
- (3) all assignments have been completed in an acceptable manner

NOTE: Late assignments are subject to a 0 grade.

GRADING:

A	=	80-100%
B	=	70- 79%
C	=	55- 69%
R	=	0- 5%

MODULE 1 - UNDERSTANDING THE USER ENVIRONMENT:

- Text - Hardware sub-systems
- CH. 1 - VMS software types - Command Language/Utilities
- Process concepts and characteristics
- Job concepts and characteristics
- Network concepts and characteristics

MODULE 2 - SIMPLE USAGE OF VMS INTERACTIVE FEATURES:

- Text - Log-in/Log-out - security
- CH. 2 - DCL - simple jobs
- Error messages
- DCL - Command Line Editing - Function Keys
- VMS - Help and Documentation re VMS commands and error messages
- System process and terminal information

MODULE 3 - UTILIZING THE EDT EDITOR:

- CH. 6 - Creating and modifying text files
- CH. 7 - EDT features
- File recovery
- Other VMS editors
- Formatting a file using Digital Standard Runoff

MODULE 4 - FILE MANAGEMENT IN VMS:

- CH. 3 - File naming convention
- Managing files in your default directory
- Protecting files in your default directory
- Organizing files using directories
- Locating files and determine characteristics
- Protecting files in a directory hierarchy
- CH. 4 - Specifying devices
- Device independence with logical names
- Manipulating files between directories and devices
- Disk and tape protection

MODULE 5 - IMPROVING THE USER ENVIRONMENT:

- CH. 4 - Defining terminal keys
- Defining and using logical names
- Defining and using symbols

MODULE 6 - AIDS TO PROGRAM DEVELOPMENT:

- APPENDIX - VMS tools used in program development
"A" - Steps in program development
- Utilizing object libraries

MODULE 7 - WRITING COMMAND PROCEDURES:

- CH. 5 - Developing a command procedure
- Creating your own LOGIN procedure
- Controlling I/O in a command procedure
- Creating and accessing sequential files
- Using symbols in a command procedure
- Using lexical functions in a command string or command procedure
- Blanching, calling, delaying, etc.
- Error handling
- Applying programming standards to the development of command procedures

MODULE 8 - SUBMITTING BATCH AND PRINT JOBS:

- Utilizing VMS features - to print a file
- to submit a batch job
- Handling print and batch jobs

MODULE 9 - VAX/VMS SECURITY FEATURES:

- APPENDIX - Importance of system security
"B" - Overview of security features

MODULE 10 - VMS UTILITIES AND FACILITIES:

- CH. 8 - File organization and access methods
- Understanding the Sort Utility
- Sorting and Merging Files