SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE OUTLINE: INTRODUCTION TO OPERATING SYSTEMS
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CODE NO.:   EDP 111
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PROGRAM: COMPUTER PROGRAMMER
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SEMESTER: TWO
_____

DATE: JANUARY, 1993
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PREVIOUS OUTLINE
DATED: JANUARY, 1992
_____

AUTHOR: WILLEM DEBRUYNE
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                    NEW: _____   REVISION: _____

APPROVED: _____   _____
          DEAN, SCHOOL OF BUSINESS &   DATE
                HOSPITALITY

INTRODUCTION TO OPERATING SYSTEMS   EDP 111

INSTRUCTOR: WILLEM DEBRUYNE

TIME: 4 HOURS PER WEEK

RESOURCE(S):   - Text: The VMS User's Guide
                - Teacher's notes
                - VAX/VMS manuals

AIM: To provide step-by-step instruction in VAX/VMS concepts
                and commands. To develop skills such as:
                    - accessing, maintaining, and manipulating files
                    - performing text editing
                    - creating command procedures

At the end of each module, students should be able to:

MODULE 1:   Identify the components of the VMS working environment
                that carry out a job, including:
                1. the parts of the VAX computer hardware
                2. VAX/VMS operating system
                3. characteristics of the interactive process
                4. the definition of a job

MODULE 2:   Effectively use the interactive features of VMS, in
                particular:
                1. use DCL to make VMS do simple jobs
                2. interpret VMS error messages
                3. use the DCL command line editing feature to
                    correct a command line
                4. use the VMS HELP facility and VMS documentation
                    to obtain information about DCL commands
                5. communicate with other interactive users (mail)
                6. obtain and interpret information about the
                    system, process and terminal

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MODULE 3:   Effectively use the VAX/VMS system, in particular:
1.   create and modify a text file using line mode
2.   list the features of the editor

MODULE 4:   Store and retrieve the many files created when programs are developed, and to protect them from unauthorized use, specifically:
1.   locate files in directories
2.   locate directories in directory trees
3.   add files and remove files from a directory
4.   control user access to files

MODULE 5:   Design and use data bases consisting of sequential files, then:
1.   sort records within a file
2.   merge files

MODULE 6:   Reduce keystrokes by defining terminal keys.
Perform simple input and output, and to make file references devices- independent using:
1.   logical names
2.   create and use logical names for file access

MODULE 7:   Familiarizes the user with:
1.   creating a text file containing source statements of a program
2.   compile the text file to create a file containing object code
3.   link the object file(s) to produce a file containing executable code
4.   run the executable image produced from the linker

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MODULE 8:   Effectively write command procedures to automate complex
                interactive tasks, in particular:

                1. follow the command procedure development steps
                2. control I/O in a command procedure
                3. create and access sequential files from a
                    command procedure
                4. manipulate symbols for constants and variables
                    in a command procedure
                5. control the execution of a command procedure
                6. develop a command procedure that executes other
                    command procedures

STUDENT EVALUATIONS:

The student's final grade will be determined from the following
components:

        1 Final test   @ 19%   19%
        7 Quizzes   @ 9%   63%
        3 Assignments   @ 6%   18%
                                        _____
                                          100%

        A+   90-100%
        A   80-89%
        B   70-79%
        C   55-69%
        R   0-54%

NOTE: Students are expected to attend classes regularly, participate
        in class discussion, conduct themselves and treat their peers
        and instructor in a professional businesslike manner throughout
        any school dealings.

        Late assignments are subject to a zero grade unless the student
        has prior permission from the instructor to hand the assignment
        in at a later date. Tests must be written on the assigned time
        and date. Students will receive a mark of zero if they miss a
        scheduled test unless the student and instructor have a
        prearranged contract to write the test after or before the
        scheduled test time.