SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: INTRO TO FOURTH GENERATION LANGUAGES
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Code No.:   EDP227
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rogram: PROGRAMMER
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Semester: FOUR
_____
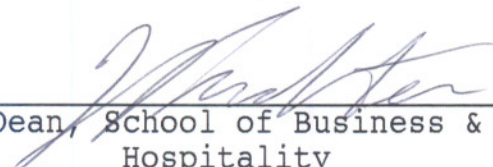
Date: JANUARY, 1996
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Previous Outline
Dated: SEPTEMBER, 1995
_____

Author: WILLEM DEBRUYNE
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                       New: _____   Revision: _____

APPROVED: _____   _____
          Dean, School of Business &   96-01-05
               Hospitality   Date

INTRO TO 4TH GENERATION LANGUAGES

Course Name

EDP227

Course Number

TIME: 4 Hours per Week

RESOURCES: COGNOS Reference Material and Manuals, Teacher's Notes

AIM:

The course is designed to give the student an awareness of the principles behind the design of fourth generation application solutions. There will be indepth explanations in the use of the POWERHOUSE product components and how to build applications.

The following topics will be covered during the course: PHD Data Dictionary, QUICK, QUIZ, QTP and customizing screens and reports along with application security.

OBJECTIVES:

Module 1 — understand what POWERHOUSE is
          — recognize the major components that make up the POWERHOUSE product

Module 2 — have an understanding of a data dictionary
          — understand how to develop a data dictionary
          — make entries into the data dictionary

Module 3 — describe the components of QUICK
          — create QUICK screens

Module 4 — write QUIZ reports that report on selected groups in sorted order
          — differentiate between the SELECT and CHOOSE statements

Module 5 — understand a prototyping approach to application development

Module 6 — understand what should be contained in a POWERHOUSE data dictionary
          — be able to create and maintain a data dictionary suitable for complex applications
          — recognize steps to incorporate data into a POWERHOUSE application

Module 7   - use QSHOW
             - list dictionary contents on printer
             - retain QSHOW source statements

Module 8   - choose file types for QUICK screens
             - identify source code of QDESIGN
             - design QUICK screens

Module 9   - create screen layouts which permit data for more than
               one record to be entered on a screen
             - design screens in horizontal and vertical manner

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               record to be entered on a screen
             - design screens in horizontal and vertical manner

Module 11 - control the prompting for field values
             - supply HELP messages to fields

Module 12 - implement a menu hierarchy of screens
             - pass data from one screen to another
             - run operating system commands from QUICK

Module 13 - identify the differences between the various file types
               available to QUICK screens
             - understand about QUICK initialization

Module 14 - design QUIZ reports with headings and footings
             - obtain totals for specific categories of information

Module 15 - produce reports with statistical information
             - structure reports by category
             - produce reports that produce summary information only

Module 16 - use temporary fields
             - apply functions to QUIZ report data

Module 17 - identify the various types of relationships that can exist
               between records
             - write QUIZ code to implement these structures

Module 18 - prepare and execute compiled QUIZ reports for efficiency
             - submit QUIZ reports as BATCH jobs
             - issue prompts at execution time

STUDENT EVALUATION:

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

Tests (2@30%)	=	60%
Assignments (3@13%)	=	39%
Participation & Attitude	=	1%
		100%

GRADING:

A+ — 90-100%
A — 80- 89%
B — 70- 79%
C — 60- 69%
R —   0- 60%

NOTE:

Students are expected to attend classes regularly, participate in class discussions, conduct themselves and treat their peers and instructors in a professional business-like manner throughout any school dealings.

Any student who misses a test will receive a grade of zero on that test unless they either produce a doctor's certificate if ill, or have the instructor's permission to write the test on a pre-arranged date and time.

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. There will be no re-writes in this course.