

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

COURSE OUTLINE

Course Outline: INTRO TO FOURTH GENERATION LANGUAGES

Code No.: EDP227

Program: PROGRAMMER

Semester: FOUR

Date: JANUARY 1990

Previous Outline Dated: JANUARY, 1989

Author: WILLEM DEBRUYNE

New: _____

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APPROVED:

W. Montford
Dean, School of Business &
Hospitality

Jan '90
Date

INTRO TO 4TH GENERATION LANGUAGES

EDP227

Course Name

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
- Module 10** - create screen layouts which permit data for more than one 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
- Module 19** - Introduce QTP's general concepts and show how batch processing tasks can be reduced to a few simple keystrokes.

- Module 20**
- recognize the various levels of security available for a POWERHOUSE application
 - distinguish between the different capabilities provided by WRITE or READ access at the RECORD or ELEMENT level
 - apply security to screens and reports

STUDENT EVALUATION:

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

Tests (3@20%)	=	60%
Assignments (3@12%)	=	36%
Participation & Attitude	=	4%
		<hr/>
		100%

GRADING:

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 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. Partially complete assignments will be graded out of 50% of the full mark possible. **There will be no re-writes in this course.**