

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE? ONTARIO

COURSE OUTLINE

Course Title J APPLIED STATISTICS
Code No *\$ PPE 345-4
Program* WATER RESOURCES
Semester. FALL
Dstel SEPTEMBER? 1984
Author, S.C. VERMA

New *i*

Revision!

APPROVED:

Chsirperson

Date

APPLIED STATISTICS

PPE 345-4

Course Name

Course Number

PUILQSQEUXZGDALSJ

This course further develops student knowledge regarding* the programming language and use of statistical package and library programs* Emphasis is placed on solving typical problems in the specialized area. The development of programs for solving typical problems in the resource area will be stressed.

«EiyOD QE ASSESSMENT. iBBADifciG MEIbOM?.

The final mark will be awarded which is higher of either

a) the final examination mark

b) weighted mark calculated as follows!

Laboratory exercises 25%

Mid-term examination 25%

Final examination 50%

XEXIBQQKlSi;

Problem solving with computers by P. Colter
Harcourt--Hill Book Company

Minitab reference manual by Thomas Ryand and others
Duxbury Press Boston

OBJECTIUESt

1. To introduce advanced topics of the Progrsmming language done b the students in their f i rst course on computer Prog r amming <, APp1ic3lion of knowledge of computer programming to var:i.ous problems in the resources field »
- 3 » Use of available programming packages in the statistics and resource field*
- 4 * DeveloPment of programs for problems of interest*

COURSE OUTLINE:

- 1 • Revision of material discussed in first course
2. Types of sub-programs-statements t functions!- sub--routine
- 3 * Simulation and sreP l")ics
- 4• Advanced functions and statements
- 5 » Data handling* interpolation
6. Statistical package (MINITAB)
- "/• Application to simple hydraulic problems
- 8* Analysis of chemical data
- 9 * Curve fitting
- 10* Hydrologic modelling
11. Special programs