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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE- MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS

Code No.: MTH 551

Program: ELECTRICAL/ELECTRONIC TECHNOLOGY; COMPUTER ENGINEERING

Semester: III

Date: JUNE, 1984

Author: J. REAL

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New;

Revision

APPROVED

Chairperson

Date

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CALENDAR DESCRIPTION

MATHEMATICS
Course Name

MTH 551
Course Number

PHILOSOPHY/GOALS:

When the student has successfully completed this course he/she will have demonstrated an acceptable understanding of the course material as listed elsewhere.

The student should then be able to apply this knowledge in his/her studies of other courses in the program where there are applications of these mathematical concepts.

Upon graduation, the student should be able to develop a good command of this subject matter through additional practice.

METHOD OF ASSESSMENT (GRADING METHOD):

The student will be assessed by written tests only. There will be periodic topic tests at times mutually agreed upon (usually) by students and instructor. A letter grade will be assigned for the student's test results.

See also the mathematics department's annual publication "To the Mathematic Student"* which is presented to the students early in each academic year.

TEXTBOOKS

Calculus for Engineering Technology - W.R. Blakeley

<u>TOPIC NO.</u>	<u>PERIODS</u>	<u>TOPIC DESCRIPTION</u>	<u>REFERENCE</u>
1	12	<u>Graphs and Analytic Geometry</u> Power functions Straight line Conic sections	Ch. 1, 2
	18	<u>Differentiation</u> Delta notation Derivatives by delta method Derivatives by rule Applications (electrical) Maximum and minimum Higher order derivatives Applications of maximum/minimum	Ch, 3, 4
	16	<u>Differentials, Implicit Differentiation</u> The differential Implicit differentiation Product rule Quotient rule Related rates Composite functions Applications	Ch. 5, 6