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

COURSE OUTLINE

Course Title MATHEMATICS
Code No. : MTH 367-3
Program: ELECTRICAL TECHNOLOGY (YEAR 3)
Semester V
Date: OCTOBER, 1985
Author J. REAL

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New:

Revision:

APPROVED


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Date

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MATHEMATICS

MTH 367-3..ELTY

COURSE NAME

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 or other courses in the program where these 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 instructors. A letter grade will be assigned for the student's progress report based upon a weighted average of the student's test results.

See also the Mathematics department's annual publication "To The Mathematical Student" which is presented to the students early in each academic year-

TEXTBOOK(S):

CALCULUS FOR ENGINEERING TECHNOLOGY; W. R. Blakeley

ELECTRICAL AND ELECTRONIC TECHNOLOGY

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERE
1	15	<u>Methods of Integration</u> Substitution, partial fractions, trigonometric identities, trigonometric and hyperbolic substitution, integration by parts, table of integrals.	Blakel Ch. 13
2	9	<u>Parital Derivatives</u> Functions with more than one independent variable, higher order partial derivatives, total differentials, total derivative and application to rates, electronic application.	Blakel Ch. 14
3	15	<u>Differential Equations</u> Solution by direct integration, method of superposition, transients in RL and RC circuits, separation of variables, exact equations, use of integrating factors, homogeneous equations, linear equations-	Blakel Ch. 16