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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS

Code No . MTH 251-4

Program: ELECTRICAL AND ELECTRONIC TECHNICIANS

Semester: THREE

Date: JUNE 1985

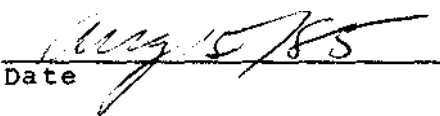
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New:

Revision:

APPROVED:

  
Chairperson

  
Date



CALENDAR DESCRIPTION

ELECTRICAL & ELECTRONIC TECHNICIANS  
MATHEMATICS

MTH 251-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

When the student has successfully completed this course, he will have demonstrated an acceptable ability to pass tests based upon the course content as listed elsewhere. If, after completing the course, the student takes further courses (or employment) in which he is required to apply this material, he should then, through practice, be able to develop a good command of this subject matter.

METHOD OF ASSESSMENT (GRADING METHOD):

The students will be assessed by tests. These tests will include periodic tests based upon blocks of subject matter and may, at the instructor's discretion, include unannounced surprise tests on current work and/or a final test on the whole course. A letter grade will be based upon a student's weighted average of his test results. See also the mathematics department's annual publication "To the Mathematics Student" which is presented to students early in each academic year.

TEXTBOOK(S):

Person: Essentials of Mathematics, 4th Edition

OBJECTIVES:

The basic objective is for the student to develop an understanding of the methods studied, knowledge of the facts presented and an ability to use these in the solution of problems. For this purpose exercises are assigned. Test results will reflect the sort of work contained in the assignments. The level of competency demanded is the level required to obtain an overall passing average on the tests. The material to be covered is listed on the following page(s)

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TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENC
1	15	<u>Number Systems and Boolean Algebra</u>  Binary, octal, hexadecimal Change of base, algebra of elements Addition and multiplication tables Definition of elements and operators Truth tables, derivation of simple identities: Negation - the not operator Applications to logic and switching circuits  Straight Line, <u>Equations</u> & Graphs  Review distance between points, slope of the line, inclination, equation of a line  <u>Analytic Geometry-Conic Sections</u>  Equations and graphs of conies (brief coverage)	printed Sheets and Text Chapter 53          Text Chapter
	10	Introduction to Differential Calculus  Functional notation, limiting value, differentiation by delta method, derivatives of polynomials	Text Chapter

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