SAULT COLLEGE OF APPLIED ARTS S TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

MATHEMATICS Course Title MTH 367-3 Code No. ELECTRICAL/ELECTRONIC TECHNOLOGY; COMPUTER TECHNOLOG Program Semester JUNE, 1986 Date J. REAL Author

New

Revision:

Ac-n^ z/K.

APPROVED

-Chairperson

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MATHEMATICS

MTH 367-3

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 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 progress report based upon a weighted average of the student's test results.

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

TEXTBOOK(S):

CALCULUS FOR ENGINEERING TECHNOLOGY; W. R, Blakeley

MTH367-3

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	ASSIGNMENTS	REFERENCES
1	15	Methods of Integration	_	Ch. 13
		Algebraic substitution Partial fractions,	pg. 240 246	
		improper fractions Substitutions for	251	
		radicals Trigonometric functions	254	
		using identities	25 7	
		Integration by parts Use of integration	2 66	
		tables	261	
2	15	First Order Differentia	.1	
		<u>Equations</u> -		Ch. 16
		Direct integration and		
		intuitive methods	319	
		Superposition method	325	
		Separation of variables Linear equation. Exact	332	
		and integrating factor	339	
		Homogeneous equations Applications - word	342	
		problems	Handout	
3	15	Second Order Differenti	al	
		<u>Equations</u> -		Ch. 17
		Direct integration and	2.5.0	
		General second order equation using auxiliary equations - three types	350 Y of	
		roots	359	
		Superposition method Electrical circuit	363	
		applications Applications - word	368	
		problems	Handout	

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