SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

MATHEMATICS Course Title MTH 385-3 Code No ELECTRICAL/ELECTRONIC TfeCHNOLOGY; COMPUTER TECHNOLOG Program VI Semester JUNE, 1986 Date J. REAL Author

New:

Revision:

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APPROVED:

MATHEMATICS

COURSE NAME

MTH 385-3,.ELTY

COURSE NUMBER

PHILSOPHY/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 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 pleriodic topic tests at times mutually agreed upon (usually) by situdents and instructor. A letter grade will be assigned for th situdent'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

MTH 385-3		- 2		
TOPIC NO	PERIODS	TOPIC DESCRIPTION	ASSIGNMENTS	REFERENC
	10	Laplace Transform -		Ch. 18
		Finding transform by definition Table of transforms Finding function from	pg. 379 383 386	
		transform Differential equations	388	
	14	Power Series -		Ch. 15
		Binomial and exponential series	pg. 294	
		Maclaurin series Integration using series	301 304 306	
		Fourier series	400 405	Ch, 19
	18	Statistics		Handout
		Descriptive statistics Frequency distributions mean/ median/ mode/ quantiles, standard deviation, variance, standardized variable		
		Probability theory Conditional probability/ independent and dependen events, mutually exclusi events, permutations, combinations, probability distributions	t ve Y	
		Inferential statistics Binomial distribution, normal distribution, sampling theory, estimat theory with confidence intervals	ion	