

MODULE TITLE	Engineering Mathematics 6	MODULE CODE	MA4066
PREREQUISITE MODULE(S)			
GRADING TYPE	Normal	CREDITS	3

AIMS/OBJECTIVES

To introduce the student to the Mathematics that underlie and describe the computing process.

SYLLABUS

[Mathematical logic,] propositional logic, quantifiers, predicate calculus, [concepts of proof and program correctness].
 [Mathematical Induction]
 [Difference Equations]: solution of some simple equations. [Algorithms and analysis of algorithms.]
 [Graph Theory and Graph Algorithms]. Trees
 [Finite state machines, computability.]

PRIME TEXT(S)

Rosen, K H, 1999. Discrete Mathematics and its Applications (4th Ed), McGraw Hill

Johnsonbaugh, R, 1997. Discrete Mathematics (4th Ed), Prentice Hall

OTHER RELEVANT TEXTS

Grimaldi, R P, 1998. Discrete and Combinatorial Mathematics (4th Ed), Addison Wesley Longman

Biggs, N L, 1989 Discrete Mathematics (2nd Ed), Oxford University Press