Course Syllabus

Program of Study	Bachelor of Science (Computer Science)			
Faculty/Institute/College	Mahidol University International College			
Course Code ICCS 324 Con	rse Title Discrete Structures			
Number of Credits	4 (Lecture / Lab) (4-0)			
Prerequisite (s)	none			
Type of Course	Required Major courses			
Trimester / Academic Year Trin Course Description	nesters 1 & 2 every year			

Applied modern algebra with specific attention to applications in computer science; topics include logic, set algrebra, equivalence relations and partitions, functions, mathematical induction, elementary number theory, basic combinationrial method, trees and graphs, finite state machines.

Course Objective (s)

The course is designed to introduce the concept of discrete mathematics.

Week		Торіс		Instructor	
		Lecture	Hour		
1	Sets, Operations on sets, sequences		4		
2	Division in integers, matrices, mathematical structures		4		
3	Logic: methods of proof, mathematical induction		4		
4	permuta combina	ation, ation	4		
5	Recurre: probabi	nce Relations, lity	4		
6	product and dig of relation	sets, relations raphs, properties ons	4		
7	Equival	ence relations	4		
8	Operation and structure of the structure	ons on relations actures	4		
9	Trees		4		
10	Graphs theory	and graph	4		
11	Finite st	ate machines	4		
	Total		44		

Course Outline

Teaching Method (s)

Lectures

Teaching Media

Transparencies, handouts and lecturing from boards

Measurement and evaluation of student achievement

Assessment made from the set-forward criteria: student who gets 85% and above will have Grade A.

Course evaluation

A suggestive minimum of;	
Midterm examination	40%
Final examination	50%
Quizzes	10%

Reference (s)

Bernard Kolman; Discrete Mathematical structures, 4th ed.

Instructor (*s*)

TBA

Course Coordinator

TBA