

Review Class

Course Code: CSC 1204

Course Title: Discrete Mathematics



Dept. of Computer Science
Faculty of Science and Technology

Lecturer No:	12	Week No:	6	Semester:	
Lecturer:	<i>Md. Mahmudur Rahman (mahmudur@aiub.edu)</i>				

Lecture Outline



▪ Review of the midterm topics from Text Book

- 1.1 Propositional Logic
- 1.2 Propositional Equivalences
- 1.3 Predicates and Quantifiers
- 2.1 Sets
- 2.2 Set Operations
- 2.3 Functions
- 3.4 The Integers and Division
- 3.5 Primes and Greatest Common Divisors
- 3.8 Matrices
- 4.1 Mathematical Induction

▪ Midterm Exam : Question Pattern, Marks Distribution

▪ OBE: The CO1 and CO2, Definitions, Rubrics, Evaluation Criteria



Books

1. *Discrete Mathematics and its applications with combinatorics and graph theory (7th edition)* by Kenneth H. Rosen [Indian Adaptation by KAMALA KRITHIVASAN], published by McGraw-Hill



The 4 COs of Discrete Mathematics

CO	Description	Learning Domain	Assessment Method	Assessment Rubric
CO1	Explain propositional logic and propositional equivalences.	Cognitive	Midterm Exam	Rubric for Midterm Exam
CO2	Determine whether a function is one-to-one, onto, and/or one-to-one correspondence.	Psychomot or	Midterm Exam	Rubric for Midterm Exam
CO3	Determine whether a graph contains Euler or Hamilton circuit or path.	Psychomot or	Final Term Exam	Rubric for Final Term Exam
CO4	Analyze a Relation to verify whether it contains certain property.	Psychomot or	Final Term Exam	Rubric for Final Term Exam



Rubric for Midterm Exam Assessment (CO1)

Marking Criteria	Marks Distribution (Maximum 5X3=15)				Acquired Marks
	Inadequate (0-2)	Satisfactory (3)	Good (4)	Excellent (5)	
Definition	<ul style="list-style-type: none"> Student does not answer or vaguely define the terms or concept 	<ul style="list-style-type: none"> Definition provided with partial relevance to the subject matter. 	<ul style="list-style-type: none"> Correctly define the terms. May miss minor detail. 	<ul style="list-style-type: none"> Correctly and comprehensively define the term with examples. 	
Usage of logic and/or laws of equivalences	<ul style="list-style-type: none"> No usage of laws or incorrect usage of laws. 	<ul style="list-style-type: none"> Usage of laws without mentioning the name of laws. 	<ul style="list-style-type: none"> Usage of laws with mentioning the name of laws but with minor mistakes. 	<ul style="list-style-type: none"> Proper usage of laws mentioning their names correctly and without any mistake. 	
Correctness of answer	<ul style="list-style-type: none"> Arrived at incorrect answer. 	<ul style="list-style-type: none"> Arrived at correct answer but with some logical errors. 	<ul style="list-style-type: none"> Arrived at correct answer with minor errors. 	<ul style="list-style-type: none"> Arrived at correct answer with no error. 	
Acquired Marks:					
CO Pass / Fail:					



Rubric for Midterm Exam Assessment (CO2)

Marking Criteria	Marks Distribution (Maximum 5X3=15)				Acquired Marks
	Inadequate (0-2)	Satisfactory (3)	Good (4)	Excellent (5)	
Definition	<ul style="list-style-type: none"> Student does not define or vaguely define the terms or concept 	<ul style="list-style-type: none"> Definition provided with partial relevance to the subject matter. 	<ul style="list-style-type: none"> Correctly define the terms. May miss minor detail. 	<ul style="list-style-type: none"> Correctly and comprehensively define the terms. 	
Reasoning	<ul style="list-style-type: none"> Student does not provide reasoning or incorrect reasoning. 	<ul style="list-style-type: none"> Reasoning provided with partial relevance to the subject matter. 	<ul style="list-style-type: none"> Correct reasoning provided with minor mistakes. 	<ul style="list-style-type: none"> Correct reasoning provided with no mistake. 	
Correctness of answer	<ul style="list-style-type: none"> Arrived at incorrect answer. 	<ul style="list-style-type: none"> Arrived at correct answer but with some missing steps. 	<ul style="list-style-type: none"> Arrived at a correct answer with minor errors. 	<ul style="list-style-type: none"> Arrived at correct answer showing all the relevant steps and with no error. 	
Acquired Marks:					
CO Pass / Fail:					



- **Do you have any questions?**