



College/Institute/Centre: Management and Technology
Department of: E-Commerce

SESSION PLAN


Tutorial

COURSE PARTICULARS	
CR115(CR111)	Title: Discrete Mathematics


SESSION PARTICULARS		
#: 1	Title: Propositional Logic, and Logic Operators	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Solving problems on propositions
2	Combining Propositions using AND, OR, and XOR
3	NAND and NOR Operators
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Prepared by:
Designation: Course Coordinator
Name: Dr. Mahmoud Youssef

Sign 
Date: 21/1/2009

Approved by:
Designation: Program Manager
Name: Dr. Mahmoud Youssef

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Date: 21/1/2009

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SESSION PARTICULARS

#: 3	Title: Logical Equivalences	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*


#	Outcome Description
1	Logical equivalence
2	Exercises on logical equivalence

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COURSE PARTICULARS	
EC115(CR111)	Title: Discrete Mathematics


SESSION PARTICULARS		
#: 4	Title: Translating English Sentences and Bit Operations	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Translating English Sentences
2	Exercises on bit operations

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SESSION PARTICULARS

#: 5	Title: Predicates and Quantifiers	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1	Exercises on propositional functions using quantifiers
2	Exercises on universal and existential quantifiers

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COURSE PARTICULARS	
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SESSION PARTICULARS		
#: 6	Title: Sets	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Class work on sets


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COURSE PARTICULARS	
EC115(CR111)	Title: Discrete Mathematics


SESSION PARTICULARS		
#: 7	Title: Set Operations	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Applying Cartesian products
2	Exercises on generalized unions and intersections
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.....	Solving problems on One-To-One ONTO functions
.....	Class work on inverse functions and compositions of functions
.....	Graphs of functions
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SESSION PARTICULARS

#: 8	Title: Functions	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1	Solving problems on One-To-One ONTO functions
2	Class work on inverse functions and compositions of functions
3	Graphs of functions
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COURSE PARTICULARS

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SESSION PARTICULARS

#: 10	Title: n-ary Relations and their applications	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1	Exercises on n-ary relations

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COURSE PARTICULARS	
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SESSION PARTICULARS		
#: 12	Title: Introduction to Graphs	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Operations on the different types of graphs (simple, multi, pseudo, directed, directed multigraph)
2	Applications on graph modeling using paths
3	Applying shortest path problems
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SESSION PARTICULARS


#: 14	Title: Revision	Hrs: 2Hrs
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LEARNING OUTCOMES / ABILITIES GAINED*

#	Outcome Description
1	Exercises on previous topics
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