



# Course Weekly Outline

**Course Name :Discrete StructureII**

<b>Course Instructor</b>					
<b>E-mail</b>					
<b>Title</b>					
<b>Course Coordinator</b>					
<b>Course Objective</b>	1.Learning Sequences of Sets 2.Define Graphs-definition-graphs & Multi graphs- sub graph – degree of graph 3. Knowing Finite state machines 4. Knowing Finite automata 5. Knowing Optimistic approach to construct FSM 6. Knowing Deterministic Finite State Automata				
<b>Course Description</b>					
<b>Textbook</b>					
<b>References</b>	Makarem Abdul-Wahid” Lecture note 2006”  Bernard K. And Robert “Discrete mathematical structure for computer science”				
<b>Course Assessments</b>	Term Tests	Laboratory	Quizzes	Project	Final Exam
<b>General Note</b>					

Republic of Iraq

The Ministry of Higher Education



University: Anbar

College: CS & IT

Department:

Stage: 1<sup>ST</sup>

Instructor name:

Academic status:

Qualification: Msc

Place of work: Anbar university

## Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Sequences of Sets & Recursively defined functions		
2		Law of algebra		
3		Some example and quiz1		
4		Graphs-definition-graphs & Multi graphs- sub graph – degree of graph		
5		Walk –length of walk- trail- path- cycle- the bridges of Konigsberg		
6		Traversable multigraphs- special graph- graph matrices		
7		Exam1		
8		Minimum Spanning Trees Labeled graphs – trees- rooted tree ordered rooted tree- polish notation		
9		Finite state machines		
10		Finite automata		
11		Solve of some examples & quiz 3		
12		Optimistic approach to construct FSM		
13		Deterministic Finite State Automata		
14		Solve of some examples & quiz 4		
15		Exam 2		

Instructor Signature:

Dean Signature: