Republic of Iraq
The Ministry of Higher Education
& Scientific Research

University: Anbar
College: CS & IT
Department: computer science
Stage: 2nd
Instructor name: Ali j. Dawood
Academic status: Assist. Prof.
Qualification: Phd computer science
Place of work: Ar Ramadi

Course Weekly Outline

Course Name : Computational theory 1

Course Instructor	Assist. Prof. Dr. Ali Jbaeer Dawood				
E-mail	dralijd@yahoo.com				
Title	Assist. Prof.				
Course Coordinator					
Course Objective	This course covers the Theory of computation. Computation models: automata and formal languages. Practical consequences				
Course Description	Set notation, Definitions, Finite Automata (DFA, NFA), Regular Expression, Transition Graph, Kleens Theorem				
Textbook	Daniel L. A. Cohen, Introduction of the theory of computation.				
References	-Lewis, H.R. and Papadimitriou, Christos. 1998. Elements of the Theory of Computation. 2nd Edition. Prentice-Hall.				
Course Assessments	TermTests	Laboratory	Quizzes	Project	Final Exam
	Exam1=15% Exam 2=15%		10%	-	60%
General Notes					

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University: Anbar
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Department:
Stage:
Instructor name:
Academic status:
Qualification:
Place of work:

Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Set notation, Definitions		
2		Regular Expression		
3		Regular Expression		
4		Finite Automata(F.A.)		
5		Finite Automata(F.A.)		
6		Transition Graphs		
7		Kleen theorm,		
8		Kleen theorm (part 2)		
9		Kleen theorm part 3		
10		DFA, NFA		
11		F. A. with output (Moore machine) (Mo)		
12		F. A. with output (Mealy machine) (Me)		
13		Converting from (Mo) to (Me) and vice versa		
14		Chomsky hierarchy language,		
15		Grammar(PSG, CSG, CFR, FSG)		

Instructor Signature: **Dean Signature:**

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University: Anbar
College: CS & IT
Department:
Stage: 2nd
Instructor name:SuhailM.Ali
Academic status: teacher
Qualification: Msc
Place of work: Anbar

Course weekly Outline

Course Name :Advanced Mathematics

Course Instructor	Suhail M. Ali				
E-mail	Suhael1958@yahoo.com				
Title	Advanced Mathematics				
Course Coordinator	15 weeks				
Course Objective	Strengthen essential advanced mathematic phenomena's				
Course Description	Advanced Mathematic for 2st stage collage				
Textbook	Calculas , Thomas ,1990,5th edition				
References	Calculas Anton ,2002 2nd edition				
Course Assessments	TermTests	Laboratory	Quizzes	Project	Final Exam
	As (30 %)	.....	(10%)	----	60%
General Notes					

Republic of Iraq
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University: Anbar
College: CS & IT
Department:
Stage:2nd
Instructor name:SuhailM.Ali
Academic status:teacher
Qualification:Msc
Place of work:Anbar

Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	1-11-2015	Introduction to advance math	……	...
2	7-11	Direct integration	……	...
3	14-11	Exercises	……	...
4	20-11	Variable separable	……	...
5	27-11	Ex	……	...
6	2-12	Homogeneous	……	...
7	9-12	ex	……	...
8	16-12	Linear 1st order	……	...
9	23-12	ex	……	...
10	30-12	Other types of 1st order	……	...
11	6-1-2016	ex	……	...
12	13-1	Bernoulli Linear 1st order	……	...
13	20-1	ex	……	...
14	25-1	review	……	...
15	1-2	ex	……	...
16	10-2	exams	……	...

Instructor Signature: **Dean Signature:**

Republic of Iraq
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University: Anbar
College: CS & IT
Department: computer science
Stage: second
Instructor name: فلذ منصور
Academic status:
Qualification:
Place of work:

Course Weekly Outline

Course Name :First course

Course Instructor	فلذ منصور محمد				
E-mail	falathm@yahoo.com falath2@gmail.com				
Title	Data structure				
Course Coordinator					
Course Objective					
Course Description	Give student overview about data structure and how they used to save data in it and deferent between they.				
Textbook	هياكل البيانات ، عصام الصفار				
References					
Course Assessments	TermTests	Laboratory	Quizzes	Project	Final Exam
	(20%)	(10%)	(10%)	(10%)	(50%)
General Notes					

Republic of Iraq
The Ministry of Higher Education
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University: Anbar
College: CS & IT
Department: Computer science
Stage: second
Instructor name: Falth Mansour
Academic status: Assist.Instructor
Qualification: Computer Science.Mster
Place of work: Anbar University

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Define data structure , syllabus , Resources		
2		Introduction , Data structure , Type of data structure ,Selection of data structure		
3		Array , Representation of one dimensional array , Representation of two dimensional array		
4		EXAM		
5		Linear list , Type of linear list , Stack, Array representation of stack		
6		Record representation of stack, Stack's Application		
7		Queue, Array representation of queue, Queue `s algorithms		
8		Queue's Subprograms, Record Representation of Queue, Queue's Applications		
9		(Circular Queue(CQ		
10		حل بعض اسئلة ومشكال متعلقة بالفصل		
11		linked structures, storage allocation, sequential storage allocation, dynamic storage allocation		
12		(Pointers, linked list(I		
13		linked stack, linked queue		
14		circular linked list, double linked list		
15		EXAM		

Instructor Signature: **Dean Signature:**