



Flow up of implementation cell pass play

Course Instructor	Muntadhar Khamees Mustafa				
E-mail	Muntadhar@yahoo.com				
Title	Computation Theory				
Course Coordinator					
Course Objective	Essential programming languages concepts				
Course Description	<p>1-Set notation .</p> <p>2-Regular expressions</p> <p>3-Finite Automata.</p> <p style="padding-left: 20px;">a-DFA</p> <p style="padding-left: 20px;">b-NF</p> <p style="padding-left: 20px;">c-Finite automata with empty -moves</p> <p style="padding-left: 20px;">e-Equivalence of NFA without empty-moves</p> <p>4-Kleen theorem</p> <p>5-Introduction to grammars(20 hrs)</p> <p style="padding-left: 20px;">a- Regular grammar Left -liner grammar Right- liner grammar</p> <p style="padding-left: 20px;">b- Context -sensitive grammar</p> <p style="padding-left: 20px;">c- Context-free grammar</p> <p style="padding-left: 40px;">Chomsky Normal form</p> <p style="padding-left: 40px;">Greibach Normal form</p> <p style="padding-left: 40px;">The empty string in context -free grammar</p> <p style="padding-left: 40px;">Ambiguity</p> <p style="padding-left: 20px;">d- Phrase structure grammar</p> <p>6-Two -way finite automata</p> <p>7-Push down automata</p> <p>8-Tuning machine</p> <p>9-Decidability rules</p>				
Textbook	<p>1 -Introduction to automata theory languages and computation , Jon E , Hopcraft 1979.</p> <p>2-Elements of the Computation , Harry R . Lewis , 1981 .</p> <p>3-Introduction to computer theory Daniel L .K .1986 .</p>				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(40%)	-	As(10%)	-	As (50%)
General Notes					

Republic of Iraq

بسم الله الرحمن الرحيم

University: Diyala

College: Science

Department: Computer Sc.

Stage: Second

Lecturer name: Muntadhar K.M.

Qualification: Ass. Lecturer

Place of Work: Diyala

university College: Science college

The Ministry of Higher Education &
Scientific Research



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	1/10/2014	Set notation		
2	8/10/2014	Regular Expression		
3	15/10/2014	Regular Expression		
4	22/10/2014	Finite Automata		
5	29/10/2014	Finite Automata DFA		
6	5/11/2014	Finite Automata NF and NF with λ -moves		
7	12/11/2014	Kleene's theorem		
8	19/11/2014	Kleene's theorem		
9	26/11/2014	Kleene's theorem		
10	3/12/2014	Introduction to Grammar		
11	10/12/2014	Regular Grammar		
12	17/12/2014	Context – sensitive grammar		
13	24/12/2014	Context – free grammar		
14	31/12/2014	Context – free grammar		
15	7/1/2015	Context – free grammar		

Instructor Signature:

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