



Flow up of  
implementation  
syllabus

University: Thi - Qar  
College: Pure science  
Department: computer  
Stage: second  
Lecturer name: Baida Abdulredha  
Academic Status: lecturer  
Qualification: Master degree  
Place of work: College of pure science

<b>Course Instructor</b>	Baida Abdulredha Hamdan				
<b>E_mail</b>	baida.alkinza66@utq.edu.iq				
<b>Title</b>	Computation Theory				
<b>Course Coordinator</b>	An annual subject taught over two semesters				
<b>Course Objective</b>	Make the most of the available learning opportunities				
<b>Course Description</b>	Teaching the student the basic concepts of computational theory that are involved in designing software and using it in various applications.				
<b>Textbook</b>	Theory of Computation				
<b>Course Assessment</b>	Term Tests	Laboratory	Quizzes	Project	Final Exam
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<b>General Notes</b>					



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## Course weekly Outline

week	Date	
1	20/9/2023	Set Theory Notation
2	27/9/2023	Relations on Sets
3	4/10/2023	Finite Automata
4	11/10/2023	Deterministic Finite Automata (DFA)
5	18/10/2023	Deterministic Finite Automata (DFA)
6	25/10/2023	Closure Properties of (DFA)
7	1/11/2023	Closure Properties of (DFA)
8	8/11/2023	Nondeterministic Finite Automata (NFA)
9	15/11/2023	Nondeterministic Finite Automata (NFA)
10	22/11/2023	Closure Properties of (NFA)
11	29/11/2023	Closure Properties of (RE)
12	6/12/2023	Chomsky Hierarchy
13	13/12/2023	Set Theory Notation
14	20/12/2023	Relations on Sets
15		<b>Exams</b>
16		<b>Exams</b>

## Half-year Break



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17	13/2/2024	Kleene's theorem
18	20/2/2024	Kleene's theorem
19	27/2/2024	Kleene's theorem
20	5/3/2024	Introduction to Grammar
21	12/3/2024	Context – free grammar (CFG)
22	19/3/2024	Context – free grammar (CFG)
23	26/3/2024	Derivation Trees and CFGs
24	2/4/2024	Derivation Trees and CFGs
25	9/4/2024	Ambiguity and Derivation Trees
26	16/4/2024	Derivation Trees and Parsing
27	23/4/2024	Cocke–Younger–Kasami (CYK) Algorithm
28	30/4/2024	Cocke–Younger–Kasami (CYK) Algorithm
29	7/5/2024	Push-Down Automata (PDA)
30	14/5/2024	Context – sensitive grammar
31		
32	12/6/2024	<b>Exams</b>

تؤيد اللجنة العلمية مطابقة الخطة التدريسية لمفردات منهج المادة الدراسية

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Instructor Signature(Lab.)

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Instructor Signature(Theoretical)

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1<sup>st</sup> Scientific committee member

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2<sup>nd</sup> Scientific committee member

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3<sup>rd</sup> Scientific committee member

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Head of Scientific committee

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Dean