

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq  
The Ministry Of Higher Education  
& Scientific Research



University: Baghdad  
College: College of Science for women  
Department: Computer Dept  
Stage: Third Stage  
Lecturer name: Wildan Jameel  
Qualification: Master in  
Computer Science  
Place of work: College of Science

## Syllabus Form

Instructor Name	Wildan Jameel Hadi				
E-mail	Wildanjhmeel@yahoo.com				
Course Title	Compilers / 111CS313				
Course Coordinator					
Course Objectives	This article aims to enable the student to accommodate stages through which every program written in any programming language from the moment the pressure force button down to the appearance of the results on the implementation screen and identify the six stages of this decision and the algorithms used in each stage and to identify the mistakes that can be committed by the programmer and try to correct it in one of error correction techniques, and try to build each stage programmatically by using the C ++ language.				
Course Description	1.identify the difference between the interpreters and translators. 2. Identify the stages for each programming language compilers. 3. The knowledge and understanding of the foundations of the work contexts of each phase independently. 4.knowledge and understanding of the diversity of incoming data and that it happens in a variety of ways to represent.				
Textbook	1. Principle of compiler design Alfred V. Aho & Jeffrey D. Ullman  2. Basics of compiler Design Torben Egidius Mogensen  3. Compilers : principles, techniques, and tools Alfred V. Aho & Jeffrey D. Ullman				
References	1. Principle of compiler design, A.A.Puntambekar , second edition 2008.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%	-	60%

General Notes	
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### Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1	2016-2-17	Introduction of Compilers and languages	Segmentation file into characters	
2	2016-2-24	Symbol table	Segmentation file into characters	
3	2016-3-3	Type of Symbol table	Recognize the logical operators	
4	2016-3-10	Lexical analysis	Recognize the logical operators	
5	2016-3-17	Regular expressions& Finite state automata	Recognize the Arithmetic operators	
6	2016-3-24	Finite state automata: Nondeterministic and deterministic finite automata	Recognize the Arithmetic operators	
7	2016-3-31	mid-term Exam	Recognize the different type of numbers.	
8	2016-4-7	Syntax analysis	Recognize the	

			different type of numbers.	
9	2016-4-14	<b>Top-down parsing: Introduction &amp; Eliminating left recursion in a grammar</b>	Recognize the different type of numbers.	
10	2016-4-21	<b>Predictive parsers: LL(1) grammars &amp; Construction of first and follow.</b>	Recognize the different type of words.	
11	2016-4-28	<b>Bottom-up parsing: Shift-reduce parsers &amp; SLR(1) parsing</b>	Recognize the different type of words.	
12	2016-5-5	<b>CLR(1) parsing &amp; LALR parsers.</b>	Recognize the different type of words.	
13	2016-5-12	<b>Semantic analysis</b>	Recognize the different type of words.	
14	2016-5-19	<b>Intermediate code generation</b>	Build an example of compiler system	
15	2016-5-26	<b>Optimization and Code generation</b>	Build an example of compiler system	

**Instructor Signature:**

**Dean Signature:**