Kingdom of Saudi Arabia Ministry Of Higher Education Majmaah University Deanship of Quality assurance and Human Development



Course Specification

(Summary)

1431/1432

Course Specification

Institution : Majmaa University

Computer Science: College/Department

A- Course Identification and General Information

1	Course title and code: Compiler Design	CIS 338
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2. Credit hours: 3

4. Name of faculty member responsible for the cours: Science- Zulfi

- 5. Level/year at which this course is offered: level ${\bf 5}$
- 6. Co-requisites for this course (if any): CIS 225
- 7. Location if not on main campus: classes

B- Objectives

1. Summary of the main learning outcomes for students enrolled in the course.

C- Course Description (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1. Topics to be Covered		
List of Topics	No of Weeks	Contact hours
• What is a Compiler and what its Phases of it.	2	6
• Lexical Analysis	2	6
• Syntax Analysis	3	9
• Top Down Parsing.	2	6
Bottom Up Parsing	2	6
Code Generation	3	9
Optimization	2	6

2. Course components (total contact hours per semester):									
Lecture: 42	Tutorial:	Laboratory:	Practical/Field work/Internship	Other:					

3. Additional private study/learning hours expected for students per week. (This should be an average: for the semester not a specific requirement in each week)

4. Schedule of Assessment Tasks for Students During the Semester

D- E-Learning Resources.

1. Required Text(s): "compiler design theory tools and examples" Seth D. Bergmann.

2. Essential References: -" Compilers: Principles, Techniques, and Tools" A.V. Aho, R. Sethi, J. D. Ullman, 1986; Addison wissley

3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List):

" Basics of compiler Design" T. Mogensen,

"Modern Compiler Implementation in Java", Andrew W. Appel and Jens Palsberg

4-.Electronic Materials, Web Sites etc.: any tutorial web site

5- Other learning material such as computer-based programs/CD, professional standards/regulations

E- Assessment

Quizzes 5%	Quizze
First Test: 15%	First T
Second Test: 15%	Secon
Reports: 5%	Repor
Final Test 60%	Final T