

Kingdom of Saudi Arabia

Ministry Of Higher Education

Majmaah University

Deanship of Quality assurance

and Human Development



Course Specification

Concepts of Programming languages

(Summary)

1431/1432

Course Specification

Institution : **Majmaah University**

College/Department : **College of Science in AL-Zulfi / Computer Science& Information**

A- Course Identification and General Information

1. Course title and code: : **introduction to Programming languages - CIS 237-Z**

2. Credit hours: 3

4. Name of faculty member responsible for the course :

5. Level/year at which this course is offered: **4 level / 2 year**

6. Co-requisites for this course (if any) : MAT 283

7. Location if not on main campus : **College of Science in AL-Zulfi**

B- Objectives

1. Understand the concepts of programming languages by discussing the design issues of the various languages constructs.
2. Examining the design choices for these constructs in some of the most common languages and critically comparing design alternatives.
3. To provide the students with the tools necessary for the critical evaluation of existing and future programming languages.
4. To prepare the student for the study of compiler design.
5. It talks about many historical languages such as PASCAL, Ada, C, C++, Java, C# and others.

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		
Topics	No Of Week	Contact hours
Preliminaries	1	3
Evolution of the Major Programming Language	1	3
Data Types	2	6
Expressions and the Assignment	2	6
Statement-Level Control Structure	2	6
Subprograms	2	6
Implementing Subprograms	2	6
Data Types	2	6

2. Course components (total contact hours per semester):				
Lecture: 42	Tutorial:	Laboratory: 0	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)
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4. Schedule of Assessment Tasks for Students During the Semester

Assessment Policy		
Assessment Type	Week	Weight
First Exam	6	15%
Second Exam	12	15%
Final Exam	16	60%
Quizzes and Home works	Along The Term	10%
Total		100%

D- E-Learning Resources.

1. Required Text(s) :
<ul style="list-style-type: none"> Concepts of Programming languages. Robert W. Sebesta ,Addison-Wesley ,2006, 7 edition
2. Essential References :
<ul style="list-style-type: none"> Design Concepts in Programming Languages , Franklyn A. Turbak and David K. Gifford, The MIT Press,2008
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)
<ul style="list-style-type: none"> Programming Language Design Concepts, David A. Watt, Wiley (May 31, 2004)
4-.Electronic Materials, Web Sites etc
<ul style="list-style-type: none"> www.aw.com/cssuport
5- Other learning material such as computer-based programs/CD, professional standards/regulations
http://www.freebsd.org/doc/en/books/developers-handbook/tools-programming.html http://www.emu.edu.tr/aelci/Courses/D-318/D-318-Files/plbook/index.htm http://www.upf.edu/materials/bib/docs/3371/12463/aaby.pdf

E- Assessment