نموذج مواصفات المقرر

كلية : التربير......ة

جامعة : الفيسسوم

Relevant Program: B.Sc. (Science & Education), Mathematics, Basic Education Major or minor element of programmes : Major

Department offering the program: Educational Depts. + Math Department Faculty of Science

Department offering the course : Mathematics

Academic year / Level: First Year (First Term)

Date of specification approval : 20 / 10 / 2008

A- Basic Information

Title : Introduction to computer science Code : 1711 Mat

Credit Hours:-- Lecture: 2

Tutorial:

Practical: 1 Total: 42

B- Professional Information

1- Overall Aims of Course

On completion of this course student will learn: 1- Brief history for computer and their generation.

- 2- Fundamental terminology associated with computer.
- 3- Numeric systems and brief introduction to data structure.
- 4- Main input and output units and how to deal with them.
- 5- Structure of central processing units and their function.
- 6- Brief introduction to operating systems.

2- Intended Learning Outcomes of Course (ILOs)

A- Knowledge and understanding:

The student will be able to:

- . Understand the design and functioning of hardware; input and output units, and the central process units.
- 1-7. Know Fundamental terminology associated with computer.
- ۱-۳. Know computers networks and Computer security systems.

B- Intellectual Skills:

1-7. \rightarrow Deal with the well-known operating systems; windows, word.

 $1-\Psi$. Increasing the students experience in computer and networks.

۲-۳. ب. Using some well- known operating systems; MS-DOS and MS-WINDOWS.

C- Professional and Practical Skills:

۱- . Increase the student's ability to deal with the different computer's programs.

۲ Training to use the world computer's applications.

٤-٣. ث. The ability to deal with numeric systems.

D- General and Transferable Skills:

.Group working ث. ۲-۲

Problem solving. ث.۳-۱

. Use new technological tools. ث. ٤-٢

3- Course Content:

3- Contents:

Торіс	No. of	Lecture	Tutorial /
	Hours		Practical
1- Introduction to Computer terminology	2		1
2- Brief introduction to computer Architecture; input and output units, and central process units	2	1	1
3- Numeric systems, and brief introduction to data structure	2	1	1
4- Introduction to operating system. Using some well- known operating systems; MS-DOS and MS-WINDOWS.	2	1	1
5- Introduction to the world computers (applications, characteristic, what's computer and what does it do?	4	2	2
6- Hardware (CPU, main memory, ports).	2	1	1
7- Input, output and storage.	4	2	2
8- Software (operating systems, function of O. S., O. S. parts, common O. S. language translator, application).	2	1	1
9- Numbering system.	4	2	2
10- Computer network.	2	1	1
11- Virus.	2	1	1

4- Teaching and Learning Methods:

4-1: Lectures.

4-2: Discussion sessions.

4-3: Practical projects.

4-4: Research Assignments .

5- Student Assessment Methods:

- 5-1: Written exam(mid-term) to assess the level of knowledge and understanding.
- 5-2: Class work(practical exam) to assess the level of professional skills to use the new technology.
- 5-3: Class work (quizzes) to assess the level of Intellectual skills to use the world computer's applications.
- 5-4: Written exam(at the end of term)to assess the ability to pass the exam.

Assessment Schedule:

Assessment 1: Written exam (mid-term) Week 7 Assessment 2: Class work (practical exam) Week 13 Assessment 3: Class work (quizzes) Week 4 - 8 - 12

Assessment 4: Written exam (at the end of term)Week at the end term

Weighting of Assessments:

Mid-Term Examination	28	%
Final-Term Examination	60	%
Oral Examination		%
Practical Examination	12	%
Semester Work		%
Other Types of Assessment		%
Total :	100%	

Any formative only assessments: Homeworks

6- List of References:

6-1: Course Notes:

Course notes prepared by staff of mathematics Deprtment.

6-2: Essential Books (Text Books):

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6-3: Recommended Books:

1-Charles Parker, "Understanding Computer; Today and tomorrow", 2000 Edition, the Drylen Press Series.

2- Peter Norton, "Introduction to Computer". Glence Norton online, http:// www.glenco.com

6-4: Periodicals, Web Sites... etc:

Computer organization and design: http:// www.inst.eecs.berkeley.edu /~cs61c

7- Facilities Required for Teaching and Learning

1- Updating lab.

2- Original modern versions of software.

3- Library contains new edition books for computer science with enough copies.

Course Coordinator: Dr.Mohamad Abd El-Ahlam

Head of Department Prof. Kamal Ahmed El Dab

Date: //