

Course Specification of Computer Science

University: Al Azhar

Faculty: Medicine

Department: Computer Science

1- Data of the course:

Code of the course: 109 -computer	Title of the course: Computer for the 1 st year students.	Year: 1 st year of MBBCh program Duration: 28 weeks
Specialty: Computer science	Number of teaching units: 2 units	Lectures: 1 hours/week Practical: 1 hours/week 14

2- Objectives o the course:	<ul style="list-style-type: none"> • To instill an awareness of the various types of information sources available. • Provide a technical introduction for computer science and medical information Science.
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3- ILOs

A- Knowledge and understanding:	<ol style="list-style-type: none"> 1. Define each part of computer hardware and its function. 2. The basics of how computers operate, with an emphasis on knowledge of practical issues: <ul style="list-style-type: none"> • Storage devices, RAM, types of printers etc.). • Define the use of each office program. • Have a basic understanding of various computer applications in medicine - for instruction, information managing, computer based medical record, etc.
B- Intellectual Skills:	<ol style="list-style-type: none"> 1- Integrate Knowledge with practical lessons 2- Apply all learned information to the practical in computer lab.
C- Practical/ Professional Skills:	<p>: PRACTICAL SKILLS: <i>By the end of the course, students should be able to:</i></p> <ol style="list-style-type: none"> 1. Tolerate working in MS Office

D- General Skills:**GENERAL SKILLS:**

By the end of the course, students should be able to:

1. Be familiar with computer and its updates.

TOPIC	% total hrs	No. of hrs		
		TOTAL	Lectures	Practical/small groups
1-General Principles	40%	66%	40%	60%
2-MS Office 3-Practical	30% 30%	42%	40%	60%
TOTAL	100			

4- Course Content:**I-Introduction to computers**

- Historical background: The student will learn briefly the historical development of computers and the evolution of digital world.
- Why should I bother learning?
- What can a computer do?
 - a. In general: A computer is a machine, which knows nothing. Yet it is extremely fast in calculations, it has an enormously strong and capacious memory and it doesn't get bored repeating things.
 - b. For me:
 - _ Student
 - Textbooks in digital form
 - Demonstrations: digital videos, simulators
 - Internet search
 - Physician
 - Keeping records
 - References on CD's
 - Continuous medical education
 - _ Researcher
 - Searching the literature
 - Statistical analysis
 - Presentations
 - _ Lecturer

	<ul style="list-style-type: none"> ▪ Presentations ▪ Keeping up to date • What are the various computer components and accessories? • CPU, BIOS, RAM • Input devices: Keyboard, Mouse, Pen, scanner etc... • Output devices: Printer, Sound, Monitor, Datashow etc... • Storage dedvices: Hard disk, Floppy, CD, Flash etc... □□Role of Software: <ul style="list-style-type: none"> o System <ul style="list-style-type: none"> a. _ Various operating systems b. _ What is the system responsibility o Applications <ul style="list-style-type: none"> a. _ Word processing b. _ Database c. _ Statistics d. _ Presentations e. _ Internet and communication f. _ Other • Protecting my computer from virus threats <ul style="list-style-type: none"> a. What is a virus anyway b. Why are there viruses c. How to defend myself d. Keeping updated <p>II-Introduction to MS Office:</p> <ul style="list-style-type: none"> • Advantages of using computers . • Basic terminology • Using the keyboard
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<p>5- Methods of teaching:</p>	<p>1. Lectures</p> <p>2. Practical and small group sessions: Practical training</p> <p>3. Online material: A hint for further self-learning</p>
<p>6- Methods of teaching of handicaps</p>	<p>Not present</p>

7- Students evaluation and assessment:

A- Method of assessment:	Practical examination Assessment of outcomes. End year written exam
B- Time of assessment	At the end of the year in June
C- Allocated marks/Distribution	Total marks: 50 marks for written and practical exams

8- Teaching books, notebooks, and references:

<ul style="list-style-type: none">- Books/Notebooks:- References:	BASIC MATERIALS: o Computer presentations used during teaching.
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Course Coordinator: