



Course E-Syllabus

1	Course title	(المهارات الحاسوبية للكليات الطبية) Computer Skills for Medical Students
2	Course number	1902103
	Credit hours	3 Credit Hours
3	Contact hours (theory,	3
	practical)	
4	Prerequisites	Basics of Computing (1932099)
5	Program title	Computer Information Systems
6	Program code	2
7	Awarding institution	Computer Information Systems
8	School	King Abdullah II school for Information Technology
9	Department	Computer Information Systems
10	Level of course	
11	Year of study and semester (s)	All Years
12	Final Qualification	
13	Other department (s) involved	None
10	in teaching the course	
14	Language of Instruction	English
15	Teaching methodology	⊠Blended □Online
16	Electronic platform(s)	\square Moodle \square Microsoft Teams \square Skype \square Zoom
10	Electronic platform(s)	⊠Others…juexams.com
17	Date of production/revision	20-9-2020 Revised : 14-10-2022

18 Course Coordinator:

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19 Other instructors:

Dr.Rana Yousef, Dr.Mousa Al-Akhras, Mrs.Tahani AlKatib, Mr.Yousef Majdalawi, Dr.Mohammad Al-Fawaier, Dr.Fuad Hijeh, Dr.Mais Al-Haj, Mrs.Alaa Khraisat.

20 Course Description:

This course empowers the medical students with the computer skills necessary associated with the health information systems. It also provides entry level conducting knowledge for medical research experiments and utilizing the available software including 2016) .database (Access tools spread sheet (Excel Moreover, it gives 2016) and Microsoft PowerPoint (2016). an overview of key healthcare information technologies concepts: healthcare data and analytics, and electronic health records (EHR), information exchanges healthcare health (HIE), information privacy and security, HIPAA privacy rule, telemedicine, consumer mobile health and health systems, and population health management. both database Furthermore. this course includes case studies for in health a information system and medical data analysis.

21 Course aims and outcomes:

ABET Students Outcomes (SOs):

1- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

6- Support the delivery, use, and management of information systems within an information systems environment [IS].

Mapping ILOs to ABET SOs

ILOs	ABET SOs
A1,B1,A2,B2,B3,D1	1
A3,A4,A5,B4,C1,C2	6

A- Aims:

The course aims to teach students how to use common software for organizing, searching and computing with emphasis on "real world" business-related tasks. Students will have the opportunity to practice and implement applications in the lab

applications in the lab.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course, students will be able to:

A-Knowledge and understanding:

- A.1 Understand the general Concepts involved in computer programming languages Memory Concepts, operators, data types, constants, variables.
- A.2 Understand the main concepts involved in problem solving: Algorithms, Pseudo Codes, Flowcharts and Flowchart Constructs (sequence, selection, Iterations).
- A.3 Understand how to use excel to present the medical data in the suitable way.
- A.4 Understand how to develop a health information system using Access that meets a specific User and system requirements.
- A.5 Understand how to use excel in analyzing the data and generating some statistical Measurements.

B-Intellectual Skills: with ability to

- **B.1** Distinguish between different concepts (Data types ,constants, variables, assignment statements)
- B.2 Distinguish between different flowchart and pseudocode constructs.
- **B.3** Realize the importance of health Informatics and health information systems applications in our life.
- **B.4** Realize the importance of advanced Microsoft applications (Excel, Access) in health Information systems.

C-Subject Specific Skills: With ability to

- C.1 Deal with Microsoft applications (Excel, Access, Powerpoint).
- C.2 Solve real world problems in health information systems using Microsoft applications.

D-Transferable Skills: with ability to

D.1 Improve students' skills in using Microsoft applications.

22. Topic Outline and Schedule:

	T	1				
Week	Lecture	Торіс	ILO's	Teaching Methods*/platfor m	Evaluation Methods**	References
1	1.1	Students Orientation		Face-To-Face	None	
	1.2	Problem Solving	A1,B1, A2,B2	Face-To-Face	Assignment on JUexams.com	Lecture Notes + Examples on Moodle
	1.3	Problem Solving	A1,B1, A2,B2	Asynchronous lecturing (Video on Moodle)		Lecture Notes + Examples on Moodle
	2.1	Problem Solving	A1,B1, A2,B2	Face-To-Face	Assignment 1 on JUexams.com	Lecture Notes + Examples on Moodle
2	2.2	Problem Solving	A1,B1, A2,B2	Face-To-Face	Assignment 1 on JUexams.com	Lecture Notes + Examples on Moodle
	2.3	Problem Solving	A1,B1, A2,B2	Asynchronous lecturing (Video on Moodle)		Lecture Notes + Examples on Moodle
	3.1	Problem Solving	A1,B1, A2,B2	Face-To-Face	Assignment 1 on JUexams.com	Lecture Notes + Examples on Moodle
3	3.2	Microsoft Excel : Introduction to Microsoft Excel 2016 (Sorting)	A3, B4,C1, C2	Face-To-Face	Assignment 2 on JUexms.com	Lecture Notes + Training File + Videos on Moodle
	3.3	Filtering (Auto+Advanc ed)	A3, B4,C1, C2	Asynchronous lecturing (Video on Moodle)	Online Task 1 on JUexams.com	Lecture Notes + Training File + Videos on Moodle
	4.1	Functions in Excel : If Function Countif CountIFS	A3, B4,C1, C2	Face-To Face	Assignment 2 on JUexms.com	Lecture Notes + Training File + Videos on Moodle
	4.2	Lookup Function Central Tendency Dispersion Measurements	A3, B4,C1, C2	Face-To Face	Assignment 2 on JUexms.com	Lecture Notes + Training File + Videos on Moodle
	4.3	Charts in Excel	A3, B4,C1,C 2	Asynchronous (Video on Moodle)	Online Task 2 on JUexams.com	Lecture Notes+ Training File 1 + Videos on Moodle

	[1	1		1
		Data Analysis	A3,	Face-To Face		Lecture Notes+
		in Excel (B4,C1,C			Training File2 +
	5.1	Relationship	2			Videos on
		among			Assignment 2 on	Moodle
		variables	1.2		JUexams.com	Y
		Understanding	A3,	Face-To Face		Lecture Notes+
		Medical Test	B4,C1,C			Training File2+
5	5.2	Results + Medical	2			Videos on Moodle
	3.2	Screening vs				Moodle
		Medical Vs			Assignment 3 on	
		Testing			JUexams.com	
		Descriptive	A3,	Asynchronous	5 C CAUIIIS. COIII	
	~ ~	statistics	B4,C1,C	(Video on		
	5.3	Excel as Data	2	Moodle)	Task 3 on	
		Analysis Tool		Wioodic)	JUexams.com	
		5	A3,	Face-To Face		Lecture Notes+
6	6.1	Test	B4,C1,C			Training File2 +
	0.1	Characteristics	2		Assignment 3 on	Videos on
					JUexams.com	Moodle
			A3,	Face-To Face		Lecture Notes+
	6.2	Test	B4,C1,C			Training File2 +
	0.2	Characteristics	2		Assignment 3 on	Videos on
					JUexams.com	Moodle
		Level Of	A3,	ASynchronous		Lecture Notes+
	6.3	Agreement	B4,C1,C	(Video on		Training File2 +
	0.2	between	2	Moodle)	Assignment 3 on	Videos on
		Tests.(IRR)			JUexams.com	Moodle
			A3,	Face – To-Face		Lecture Notes+
	7.1	Kappa Statistic	B4,C1,C			Training File2 +
7			2		Online Task 4	Videos on
7			12	E T. E	on JUexams.com	Moodle
		Health	A3, B4,C1,C	Face – To-Face		Lecture Notes+
	7.2	Informatics	2 B4,C1,C			Training File2 + Videos on
		mormatics	2			Moodle
	7.3	Midterm Exam				Mooule
			A3,	Face – To-Face		Lecture Notes+
	01	Health	B4,C1,			Training File3 +
	8.1	Informatics	C2			Videos on
						Moodle
			A3,	Face – To-Face		Lecture Notes+
8	8.2	Health	B4,C1,			Training File3 +
	0.2	Informatics	C2			Videos on
						Moodle
		Supporting	A3,	Asynchronous		
	8.3	Videos for Health	B4,C1,	(Video on		
		Informatics	C2	Moodle)		
		Database	A4,B4,	Face – To-Face		
			C1,C2,			Lecture Notes+
9	0.1	design using Access 2016	D1,D2			Training
	9.1					Database(Hospit
		: Access				al) + Videos on
		Environment				Moodle

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		, creating				
		tables in				
		Access,				
		Changing				
		Fields				
		properties				
		,Data				
		Validation				
			A4,B4,	Face –To-Face		
		Relationships		race -10-race		
		and their	C1,C2, D1,D2			
		types with	D1,D2			Lecture Notes+
	9.2	examples in				Training
		Health				Database(Hospit
		information				al) + Videos on
		systems				Moodle
			A4,B4,	Asynchronous	Online Task 5	Videos on
	9.3		C1,C2	(Video on	on JUexams.com	Moodle
		Queries		Moodle)		
			A4,B4,	Face-to-Face		Lecture Notes+
			C1,C2			Training
	10.1	Microsoft				Database(Hospit
		Access				al) + Videos on
		Queries				Moodle
10			A4,B4,	Face-to-Face		Videos on
	10.2		C1,C2			Moodle
		Forms				
		Microsoft	A4,B4,	Asynchronous		
	10.3	Access	C1,C2	(Video on	Online Task 6 on	Videos on
	10.5	Reports	-)-	Moodle)	JUexams.com	Moodle
		Reports	A4,B4,	Face-to-Face	J OCAMIIS.COM	Lecture Notes+
			C1,C2	1 acc-10-1 acc		Training
	11.1	HIS Examples	01,02			Database(Hospit
	11.1	The Examples				al) + Videos on
						Moodle
			A4,B4,			Lecture Notes+
			C1,C2			Training
11	11.2	HIS Examples	,-			Database(Hospit
						al) + Videos on
				Face-to-Face		Moodle
			A4,B4,			Lecture Notes+
			C1,C2			Training
	11.3	Access Sheet		Asynchronous		Database(Hospit
				(Video on		al) + Videos on
				Moodle)		Moodle
	12.2	Microsoft	C1 ,D1			
		Powerpoint	C1 D1			
			C1 ,D1			Lecture Notes+
12						Training
12						Database(Hospit
		Microsoft				al) + Videos on
	12.3	Microsoft Powerpoint		Face-to-Face		Moodle
	12.3	Fowerpoint		1 400 10-1 400		moule

			C1 ,D1		Lecture Notes+
					Training
	13.2				Database(Hospit
		Microsoft			al) + Videos on
13		Powerpoint		Face-to-Face	Moodle
					Lecture Notes+
					Training
	13.3				Database(Hospit
					al) + Videos on
		Revision		Face-to-Face	Moodle
14	Final Exa	m Period			

- Teaching methods include: Face-To-Face meeting ; Asynchronous lecturing
- Evaluation methods include: Homework, Tasks, Exam...etc

23 Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark
Online Tasks	20
Assignments	10
Midterm Exam	30
Final Exam	40

24 Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

Students should have a computer, Internet Connection, Microsoft office 2016.

25 Course Policies:

A-Attendance policies:

Maximum allowable absence 15% of number of Lectures/Semester

- **B-** *Absences from exams and handing in assignments on time: It is the student's responsibility to ensure that he/she is aware of all assignments, announcements and contents of missed sessions*
- C- Health and safety procedures: University Regulations
- **D-** *Honesty policy regarding cheating, plagiarism, misbehavior:* It is the student's responsibility to ensure that he/she is adhere with cheating, plagiarism, misbehavior.

E- *Grading policy:*

The grading policy is subject to change at the end of the semester according to the overall performance of students.

F- Available university services that support achievement in the course:

Computer Labs.

26 References:

A- Required book (s), assigned reading and audio-visuals:

مهارات الحاسوب 2 د. محمد بلال الزعبي , د. أحمد الشرايعة , د.أمجد هديب , أ. خالدة الزعبي . الجامعة الأردنية كلية الملك عبد الله الثاني لتكنولوجيا المعلومات , الطبعة الأولى 2012

2- Provided material and hands out.

B- Recommended books, materials, and media:

- 1. http://Elearning.ju.edu.jo.
- 2. http://office.microsoft.com.
- 3. www.gcflearnfree.org.

27 Additional information:

- Students are encouraged to make heavy use of the library, E-LIBRARY http://ezlibrary.ju.edu.jo/login or from within the university using (http://e-library)

- The instructor can make changes to this syllabus when necessary.

- University regulations will be preserved at all times