COURSE DESCRIPTIONS

Faculty	Science and Information Technology				
Department	Computer Science			**NQF level**	7
Course Title	Introduction to Information Technology	**Code**	185101	**Prerequisite**	
Credit Hours	3	**Theory**	3	**Practical**	0
Course Leader	Dr. Aymen Abu-Errub	**email**	a.abu-errub@jadara.edu .jo		
Lecturers	Dr. Basem Rifai Dr. Basem Zughoul Dr. Marwan Atoom Dr. Ali Almazari Dr. Sawsan Sharih Dr. Ammar Al-Omari Dr. Belal Al-Athamneh Dr. Nada Al Jarrah	**e-mails**	b.rifai@jadara.edu.jo b.zughoul@jadara.edu.jo m.atoom@jadara.edu.jo a.almazari@jadara.edu.jo s.sharih@jadara.edu.jo a.alomari@jadara.edu.jo b.athamneh@jadara.edu.jo n.aljarrah@jadara.edu.jo		
Lecture time	Multi-Sections	**Classroom**	Face to Face & online	**Attendance**	Fulltime
Semester	1st 2024-2025	**Production**	2015	**Updated**	2024
Type of Teaching	☐ Face to Face ■Blended ☐ Online				

Short Description
This course introduces the basic concepts needed to computer science and IT students, in this course we will review the main topics that are related to our life like Internet, Web, Electronic commerce, Network, Communication media, privacy, security, ethic issues. Then we will give a look at the system unit, microprocessor, memory, motherboard, and system software. The study of these topics will be appropriate to the level of the student considering that this course is preliminary course and not advanced one.

Course Objectives
The objective of this course is to provide students the basics needed to understand the concepts necessary for success. This course helps students in understanding and awareness the effects of information technology on people and on our life. Introducing information technology in our life caused a change in the life style of many people, some changes are positive and some changes are negative, for that this course will analyze the effects of this technology from the people perspective, environment, and companies.

Course Intended Learning Outcomes (CILOs)
A. Knowledge - Theoretical Understanding
a1. Distinguish between system software and application software. (**K1**) a2. Identify the types of system software, the parts of information systems. (**K2**)
B. Knowledge - Practical Application

a3. <u>Describe</u> and identify the different types of networks, network architecture, and network topology. (**K4**)
C. Skills - Generic Problem Solving and Analytical Skills
D. Skills - Communication, ICT, and Numeracy
E. Competence: Autonomy, Responsibility, and Context

Teaching and Learning Methods

■ Face to Face Lectures ☐ Brain Storming ☐Synchronous remote ■ Asynchronous remote
■ Using Video ☐ Discussions ☐ Research Project ☐ Case Study
☐ Field visit ☐ Problem solving

Assessment Methods

☐ Formative Assessment ■ Quiz ☐ Lab Exam ■ Homework
☐Project Assessment ☐ Oral Presentation ■ Midterm ■ Final Exam

Course Contents					
Week	**Hours**	**CILOs**	**Topics**	**Teaching & Learning Methods**	**Assessment Methods**
W1 W2	6	a1 a2 a3	- **Information technology the Internet, and you**: (Information system, and its parts, software, hardware)	Face to Face + Asynchronous Lectures	Assignment Quiz
W3 W4	6	a1 a2 a3	- **The Internet, the Web and Electronic commerce**: (Internet, communication, search tools, electronic commerce, cloud computing) - **Application Software**: (General purpose application, specialized Application, mobile application)	Face to Face + Asynchronous Lectures	Quiz
W5 W6	6	a1 a2 a3	- **System Software**: (Operating systems, Mobile operating systems)	Face to Face + Asynchronous Lectures	Assignment
W7 W8	6	a1 a2 a3	- **System Unit**: (Desktop, notebooks, tablet microprocessor, memory, bus lines, ports) - **Input & Output Devices** - **Secondary Storage**	Face to Face + Asynchronous Lectures	
W9			**Mid-Term Exam**		
W10	3	a1 a2 a3	- **Numbering Systems**	Face to Face + Asynchronous Lectures	Assignment
W11 W12	6	a1 a2 a3	- **Communication and networks**: (Communication channels, devices, data transmission, network types, network architecture)	Face to Face + Asynchronous Lectures	
W13	6	a1	- **Privacy, Security, and Ethics**.	Face to Face +	Quiz

W14		a2 a3		Asynchronous Lectures	
	2	a1 a2 a3	**Final Exam**		

Infrastructure	
Textbook	Computing Essentials 2017 Making IT Work for You. Timothy O'Leary/ Lind I. O'Leary. 2017. McGraw-Hill. ISBN 978-0-07-131551-7
References	Introduction to information Technology Managerial Perspective . Efram Turban
Required reading	
Electronic materials	**eLearning Server Jadara University**
Other	

Course Assessment Plan					
Assessment Method	**Grade**	**CILOs**			
		a1	**a2**	**a3**	
First (Midterm)	30	15	11	4	
Second (if applicable)					
Final Exam	40	13	17	10	
Coursework					
Coursework assessment methods — Assignments	10	5	4	1	
Coursework assessment methods — Case study					
Coursework assessment methods — Discussion and interaction					
Coursework assessment methods — Group work activities	10	4	4	2	
Coursework assessment methods — Lab tests and assignments					
Coursework assessment methods — Presentations					
Coursework assessment methods — Quizzes	10	7	1	2	
Total	100	44	37	19	

Plagiarism
Plagiarism is claiming that someone else's work is your own. The department has a strict policy regarding plagiarism and, if plagiarism is indeed discovered, this policy will be applied. Note that punishments apply also to anyone assisting another to commit plagiarism (for example by knowingly allowing someone to copy your code).
Plagiarism is different from group work in which a number of individuals share ideas on how to carry out the coursework. You are strongly encouraged to work in small groups, and you will certainly not be penalized for doing so. This means that you may work together on the program. What is important is that you have a full understanding of all aspects of the completed program. In order to allow proper assessment that this is indeed the case, you must adhere strictly to the course work requirements as outlined above and detailed in the coursework problem description. These requirements are in place to encourage individual understanding, facilitate individual assessment, and deter plagiarism.