Ministry of Higher Education and Scientific Research

المعهد العالى للحاسبات وتكنولوجيا المعلومات
مدينة الشروق ـ القاهرة
شعبة علوم الحاسب

Course specification

Course Code: CS103

Course Title: Introduction to Information Systems

Academic Year: /

Course specification
(CS103 Introduction to Information Systems)

Course Outline	
Faculty:	HICIT- *(Higher Institute for Computers & Information Technology-El Shorouk Academy)*
Programme(s) on which the course is given:	Undergraduate program in Computer Science
Major or minor element of programme:	Compulsory
Department offering the program	Department of Computer Science
Department offering the course:	Department of Computer Science
Level	1st Year – 1st Semester
Date of specification approval	DD/MM/YYYY

Basic Information			
Code: CS103	*Title:*		Introduction to Information Systems
Prerequisites:	-		
Weekly Hours:			
Lecture: 2	**Exercise: 2**	**Practical:**	**Total:** 3 credit hours

Professional Information

Course Aims:

The course provides students with a basic conceptual understanding of computers and the basics of database and telecommunication technology. The course also addresses the question: "how can computers help a business (or other organization)?" Highlights of business application systems that support the functions of accounting, finance, marketing, human resource management and manufacturing will be provided.

Enterprise Resource Planning Systems, Customer Relationship Management Systems, Executive Information Systems, Decision Support Systems and Expert Systems are also covered. Further, topics of e-Business and e-Commerce are covered. The final section of the course introduces the student to the process of developing a customized computer-based information system, presenting the system development life cycle and outlining the work of a systems analyst.

Program ILOs Covered by Course

Knowledge and understanding	Intellectual Skills	Professional and practical skills	General and Transferable skills
A2,A3,A6,A9	B1,B2	C1	D1

Intended learning outcomes of course (ILOs)

a. Knowledge and Under-Standing:
  a1. Understand the strong relationship between business and IS and create a positive attitude towards this relationship.
  a2. Understand the essence and concepts of information systems and understand the components and their mechanisms.
  a3. Understand and comprehend the historical and technical development of IS, their types and how to use them, and benefit from previous experiences.
  a4. Learn how to create a new information system, transform a traditional information system into an electronic information system, or update and re-implement an existing system.
  a5. Management of information resources systems, how to accomplish the necessary administrative processes, and what quality standards should be applied?
  a6. Management of the protection of information resources, and how to accomplish the necessary administrative processes.
  a7. Knowledge of the concepts and standards of international information security, and training on how to apply, and how to maintain equipment and updating of software.

b. Intellectual Skills: Cognitive skills of critical thinking, analysis, synthesis, including:
  b1 - Use data management software to solve real problems.

c. Professional and practical skills
  c1. Use data management software to solve real problems.

d. General and transferable skills: Specifically ability to:
  d1. Solve problems and exhibit self-learning abilities.

Contents

Topic	Contact Hours	
	lecture	Ex/Lab
Introduction to Information Systems	2	2
Data, Information, and Knowledge	2	2
Types of Information Systems	6	6
E-Business, E-Commerce	2	2
Data Management	2	2
Computer Hardware	2	2
Systems & Applications Software	2	2
Software Development Life Cycle	6	6
Building or Acquiring Information Systems	4	4

Student assessment methods & Schedule

Methods	Used	Week#
Midterm Exam	√	8
Final Exam	√	16
Course Project		
Course Work & Quizzes	√	2-14
Practical Exam		

Assessment Weight

Assessment	Weight %
Mid Term Exam	20
Practical Exam and Project	-
Final Exam	60%
Course Work & Quizzes	20%
Total	100

Course Work &Quizzes

Short Exams, Assignments, Research, Reports, Presentations
Class/Project discussion

Teaching and learning methods

Teaching and learning methods	Used
Lectures	√
Tutorial Exercises	√
Practical Lab	√
Discussions.	√
Self – Learning (Reading material, Websites search,)	
Self-studies	
Group work	
Presentation	
Problem solving/problem solving learning based	√
Case study	√
Synchronous E-Learning	√
Video lectures	√
Asynchronous E-Learning	√

List of references

Essential books (textbooks)	- Fundamentals of Information Systems, 9th Ed, by Ralph Stair, Course Technology, Cengage Learning, Inc., 2018 - Introduction to Information Systems, 2nd Ed, by PATRICIA WALLACE, Pearson Education, Inc., 2015
Course notes	E-Learning Portal
Recommended books	
Periodicals, website	
Videos link	https://www.youtube.com/watch?v=PwHGLgNZgFI&list=PLN8TBH9HIw19od uujWQUEpQhcBkW-2sR7&pp=gAQBiAQB

Required Facilities		
Tools & SW (Technology facilities):	- MS project SW Package for schedule projects - MS power point SW package for presentation - MS word SW package for system documentation preparation	
Teaching facilities:	Whiteboard	√
	Computer Lab	√
	Data show	√
	E-Learning	√
	Videos	√
	Website	√

Course Content/ILO Matrix

Course Contents	Knowledge & understanding							Intellectual skills	Professional and practical skills	General
	a1	a2	a3	a4	a5	a6	a7	b1	c1	d1
Introduction to Information Systems	x		x	x			x			
Data, Information, and Knowledge		x	x			x				
Types of Information Systems		x	x			x				
E-Business, E-Commerce		x	x		x			x	x	
Data Management			x		x				x	
Computer Hardware			x		x					
Systems & Applications Software					x			x		
Software Development Life Cycle				x						
Building or Acquiring Information Systems				x						x

Learning Method /ILOs Matrix

Learning Methods	Knowledge and understanding							Intellectual skills	Professional and practical skills	General
	a1	a2	a3	a4	a5	a6	a7	b1	c1	d1
Lectures	x	x	x	x	x	x	x	x	x	
Tutorial Exercises								x	x	x
Reading material										
Websites search										x
Research and reporting										
Problem solving	x	x	x	x	x	x	x			x
Group work										
Case study	x	x	x	x	x	x	x			x
Practical Lab										
Discussions.								x	x	

Assessment Methods /ILOs Matrix										
Assessment Methods	**Knowledge & understanding**							**Intellectual skills**	**Professional & practical skills**	**General**
	a1	**a2**	**a3**	**a4**	**a5**	**a6**	**a7**	**b1**	**c1**	**d1**
Mid Term Exam	x	x	x	x	x	x	x	x	x	
Final Exam	x	x	x	x	x	x	x	x	x	
Course Project										
Course Work &Quizzes		x	x	x	x	x	x	x	x	x
Practical Exam										

Course / Program ILOs Matrix									
Prog ILOs / **Course ILOs**		**Knowledge & understanding**				**Intellectual skills**		**Professional and practical skills**	**General**
		A2	**A3**	**A6**	**A9**	**B1**	**B2**	**C1**	**D1**
Knowledge and Understanding	a1	x	x	x	x				
	a2	x	x	x	x				
	a3	x	x	x	x				
	a4	x	x	x	x				
	a5	x	x	x	x				
	a6	x	x	x	x				
	a7	x	x	x	x				
Intellectual skills	b1					x	x		
Professional & Practical Skills	c1							x	
General & Transferable Skills	d1								x

Course Coordinator: (   )
Head of Department: Dr. Ahmed El-Abbassy **(   )**
Date: --/--/2023