



**Future Academy**  
**Higher Future Institute for Specialized Technological Studies**

**Course Specification**

**1- Course information:**

<b>Course Code:</b>	INM152
<b>Course Title:</b>	Fundamentals of Info. Systems
<b>Year/level</b>	1 <sup>st</sup>
<b>Academic Programs</b>	Computer Science Program (B.Sc.)
<b>Contact hours/ week</b>	(Theoretical = 3hrs)

**2- Course aims:**

This course is an introduction to information systems/technology and its applications for business students. The course explores the computer base applications in the major functional areas of business including accounting, finance, marketing, production, and personnel. This course aims at the development of computer end-users and systems managers through a comprehensive coverage of business processes, systems concepts, systems types, applications software, database concepts, electronic commerce and competitive advantage.

**3- Intended learning outcomes of the course (ILOs):**

**a- Knowledge and understanding:**

**On successful completion of this course, the student should be able to:**

- a1- Identify the basic types of business IS and discuss who uses them.
- a2- Identify the major steps of the systems development process and state the goal of each.
- a3- Define the term competitive advantage and discuss how organizations are using IS to gain such an advantage.
- a4- Define the types of roles, functions, and careers available in information systems.

**b- Intellectual skills:**

**On completing this course, the student should be able to:**

- b1- Discuss how application software can support personal, workgroup, and enterprise business.
- b2- Discuss the advantages and disadvantages associated with the implementation of an ERP.
- b3- Explain the uses of MISs and describe their input and out.
- b4- Discuss IS in the functional areas of business organizations and an example of specialized systems for organization and individual use.

#### **c- Professional and practical skills:**

**At the end of this course, the student will be able to:**

c1- Ability to identify & describe types of computer crime and their effects.

c2- Recognize the roles of IS in supporting the structures and processes; the management; and the strategic success of organization.

c3- Evaluate key issues of Information Systems, including security and control and global systems issues

#### **d- General and transferable skills:**

**On successful completion of this course, the student should be able to:**

d1- Ability to define the types of roles, functions, and careers available in IS.

d2- Solve managerial problems with the use of IT tools.

#### **4- Course contents**

<b>Week No.</b>	<b>Topics/units</b>	<b>Number of hours</b>		<b>ILO's</b>
		<b>Lecture hours</b>	<b>Practical hours</b>	
1	Introduction to information systems	3	-	a1,a2,b1,b2
2	Information systems components	3	-	a1,a3,b1,b2,c1,d1
3	Information systems in organization	3	-	a1,a2,a3,b1,b3,c1,d1
4	Quality of information, competitive advantage of information, Valuing information systems+Quiz1	3	-	a1,a2,b1,b2,b3,c1
5	Intranets, Internet, extranets E-business	3	-	a1,a2,b1,b2,c1
6	E- commerce, E-government	3	-	a1,a2,b1,b2,d1
7	<b>Midterm Exam</b>			
8	Threats to information systems	3	-	a1,a2,b1,b2,b4,c1,c2,d1
9	Business intelligence	3	-	a1,a2,b1,b2,c2,d2
10	Systems to support organizational	3	-	a1,a4,b1,b3,d1,d2
11	Functions and decision making+Quiz2	3	-	a1,a2,a4,b1,b2,b4
12	Executive, managerial, and operational support systems	3	-	a1,a2,b1,b3,c1
13	Decision support systems	3	-	a1,a2,b1,b2,c3
14	Web 2. Technologies	3	-	a1,a2,b1,b2,c2,c3,d2

## 5- Teaching and learning methods

Methods	ILO's																			
	a1	a2	a3	a4	a5	b1	b2	b3	b4	b5	c1	c2	c3	c4	c5	d1	d2	d3	d4	d5
Lectures	√	√	√	√		√	√	√	√		√	√	√	√		√	√			
Practical sections																				
Self-learning																√				
Assays and reviews																				
Discussion groups							√	√	√											
Brainstorming																				
Blended-learning																				
E-learning																				

## 6- Teaching and learning methods for Low-achieving students

- Extra teaching hours for those who need help
- More quizzes to assess their ability for understanding the course
- Encourage the team work for those students with other advanced ones to increase their participation and understanding

## 7- Student assessment

Assessment method	Time	Grade weight (%)	Week	ILOs
Course Work ( Tutorial Exercise and Assignments)	Through the semester	15	Every Week	a1,a2,b1,b2,c1,c2,c3,d1,d2
Quiz 1	Through the lecture	5	Week#4	a1,a2,b1,b2
Mid-term exam	1 hour	15	Week#7	a1,a2,a3,b1,b2
Quiz 2	Through the lecture	5	Week#11	a1,a2,b1,b2
Final Written exam	2 hours	60	Week# 15-16	a1,a2,a3,a4,b1,b2,b3,b4

## 8-List of references

### 8.1. Student notebooks:

- Comprehensive instructor notes ("PowerPoint slides") are available on the course web page ("Google Classroom")

### 8.2. Essential textbooks:

- Stair, Ralph M., and George W. Reynolds. *Fundamentals of information systems*. Cengage Learning, 2018.

### 8.3. Recommended textbooks:

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### 8.4. Journals, Periodical and Reports .....etc.

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### 8.5. Websites

- <https://www.youtube.com/watch?v=K6PqA8xtMV0&list=PL1DUmTEdeA6IIA-Xiz-cChMTARKIKIAoE>
- <https://www.youtube.com/watch?v=g8059-8QDNk&list=PLfQhXy7Eb54wfEHJs95ujl5FMA03bPgi>

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