

**Module (Course Syllabus) Catalogue**  
**(2023-2024)**

<b>College/ Institute</b>	<b>Erbil Technical Engineering College</b>	
<b>Department</b>	<b>Information Systems Engineering Department</b>	
<b>Module Name</b>	<b><u>Fundamentals of Information Systems</u></b>	
<b>Module Code</b>	<b>FIS105</b>	
<b>Degree</b>	Technical Diploma <input type="checkbox"/>	Bachelor <input checked="" type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input type="checkbox"/>
<b>Semester</b>	<b>1<sup>st</sup> Semester -First Stage</b>	
<b>Qualification</b>	<b>MSc. in Computer Science\ Advanced Information System</b>	
<b>Scientific Title</b>	<b>Assist. Lect.</b>	
<b>ECTS (Credits)</b>	<b>7</b>	
<b>Module type</b>	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
<b>Weekly hours</b>	<b>4</b>	
<b>Weekly hours (Theory)</b>	<b>(4) hr Class</b>	<b>( 175 )Total hrs Workload</b>
<b>Weekly hours (Practical)</b>	<b>( 0 )hr Class</b>	<b>( 0 )Total hrs Workload</b>
<b>Number of Weeks</b>	<b>12</b>	
<b>Lecturer (Theory)</b>	<b>Mrs.Areen Jamal Hamad</b>	
<b>E-Mail</b>	<b><a href="mailto:Areen.hamad@epu.edu.iq">Areen.hamad@epu.edu.iq</a></b>	
<b>Lecturer (Practical)</b>	<b>None</b>	
<b>E-Mail</b>		
<b>Websites</b>	<b><a href="https://moodle.epu.edu.iq/course/view.php?id=545">https://moodle.epu.edu.iq/course/view.php?id=545</a></b>	

**Course Book**

<p><b>Course Description</b></p>	<p>This course is designed to provide an introduction to information systems and their foundational concepts. Topics cover presentation of information systems role in organisations. As well as designed to provide students with basic applications in data collection, processing, storage, analysis and dissemination of information for a particular purpose in organizations.</p>
<p><b>Course objectives</b></p>	<p>- <b>Course objective: This course aims to:</b></p> <ul style="list-style-type: none"> <li>• Discipline the Information Systems with the effective use of IT by people and organisations.</li> <li>• Describe the components of real-world information systems.</li> <li>• Illustrate how an information system uses people, hardware, software, data, and networks as resources to perform input, processing, output, storage.</li> <li>• Explain the activities that transform data resources into information products.</li> </ul>
<p><b>Student's obligation</b></p>	<p>- <b>Student's obligation</b></p> <p><b>Cell phone:</b> In order to avoid distracting the class or other students I ask that you turn your cell phone off or set it to silent while in the class. If it's necessary, please excuse yourself from the classroom while on the phone</p> <p><b>Email Addresses:</b> all students are required to provide the lecturer with their functional email addresses for communication and sharing lecture materials.</p> <p><b>Regularity:</b></p> <ul style="list-style-type: none"> <li>-Please attend the class on time in case of urgency you must enter the class silently and sit as soon as you find an available seat.</li> <li>- Print the lecture notes provided by lecturer prior to the class</li> <li>- Avoid being distractive or disruptive to others in the class</li> <li>- Participate in class discussions</li> <li>- Let the lecturer know when a subject is vague</li> <li>- Be thoughtful when attending quiz and exam sessions.</li> </ul> <p>Drinks: you can have a bottle of water and/or a cup of tea or coffee, but you must respect the hygiene of the class. Plus, when the class is done all the chairs must be seated well in to their regular positions.</p> <p><b>Discrimination &amp; Harassment:</b> This classroom must be an environment that is free of Discrimination and harassment based on a person's sex, race, colour, age, religion, disability, ancestry, or national origin, consistent with applicable laws in the University. All students are required to respect the rights, opinions and beliefs of others.</p>
<p><b>Required Learning Materials</b></p>	<p>lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters</p>



Journal of Research (IJR) Vol-1, Issue 7. Retrieved from:  
<http://paulhadrien.info/The%20Role%20of%20Different%20Types%20of%20Information.pdf>

-R. Shipsey.(2010). Information systems: foundations of e-business. University of London International Programmes. Retrieved from:  
[http://www.londoninternational.ac.uk/sites/default/files/computing\\_samples/co1108\\_ch1-3.pdf](http://www.londoninternational.ac.uk/sites/default/files/computing_samples/co1108_ch1-3.pdf)

- Essentials of Management Information Systems.(2011). Ethical and Social Issues in Information Systems chapter12: Pearson Education, Inc. Retrieved from:  
<http://ramayah.com/wp-content/uploads/2011/12/CH12.pdf>

Course topics (Theory)	Week	Learning Outcome
<ul style="list-style-type: none"> <li>Information Systems Overview: Define information system, Compare and contrast data, information, and knowledge. Summarize the difference between information systems and information technology Identify types of information systems, and describe the use of IT.</li> </ul>	1&2	1
<ul style="list-style-type: none"> <li>Information system in organisations Practicing some samples the of information systems in organisations</li> </ul>	3&4	2
<ul style="list-style-type: none"> <li>Computer Hardware &amp; Software: Identify the different hardware components of a computer system, including CPU, RAM, input/output devices and storage devices; evaluate examples of software applications</li> </ul>	5&6	3
<ul style="list-style-type: none"> <li>Database Systems Overview: Data Management and modelling, Key aspects of organizing data and information, identify different database management systems; describe models of database systems; explain the use of structured query language within a database system.</li> </ul>	7&8	4
<ul style="list-style-type: none"> <li>Networks Identify different types of computer networks; describe methods of securing networks; evaluate the uses of the World Wide Web</li> </ul>	9	5
<ul style="list-style-type: none"> <li>Mobile &amp; Electronic Commerce Differentiate between different types of e-commerce, including business-to-business and business-to consumer models; explain how the Internet is helping e-commerce reach global markets.</li> </ul>	10	6
<ul style="list-style-type: none"> <li>Types of information systems &amp; the use of Artificial Intelligence Demonstrating and practicing some examples of transaction processing systems in some organisations -</li> </ul>	11&12	7

Demonstrating and practicing some examples of using AI in decision support systems

• **Examinations (question design):**

Compositional: most of exam questions will be compositional as following example:

- Explain the Logical and Physical Access Paths of Storing and Retrieving Data in the Database, with Diagram?
- Define the terms Data, Information and Knowledge. Explain different characteristics of valuable information.

**20. Extra notes:**

The course content is subject to change, the students will be informed a head.

**External Evaluator**

**I confirm that the course book covers all the most important topics that student have to be learned during the year of studying**



**Shahab Wahhab Kareem**

**10-10-2023**