

Faculty of Computer & Information Technology

**Department of Information System**

**Program of Information System**

Course Specification of Information System Fundamentals

Course No ( **………………. )**

**2020/2021**

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| Course Identification and General Information: |
| **1** | **Course Title:** | Information System Fundamentals |
| **2** | **Course Code & Number:** |  |
| **3** | **Credit hours:**  | C.H | Total |
| Th. | Seminar |  Pr | Tr. |
| 3 | - | - | - | ***3*** |
| **4** | **Study level/ semester at which this course is offered:** | *1st Year/2nd Semester* |
| **5** | **Pre –requisite (if any):** | Introduction to Computer |
| **6** | **Co –requisite (if any):** | None |
| **7** | **Program (s) in which the course is offered:** | IS |
| **8** | **Language of teaching the course:** | English |
| **9** | **Study System** | Term based system |
| **10** | **Mode of delivery:** | Full Time |
| **11** | **Location of teaching the course:** | Faculty of Computer and Information Technology |
| **12** | **Prepared By:** | Dr. Mansour N. Ali |
| **13** | **Date of Approval** |  |

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| Course Description: |
| This is a foundation course that introduces students to the definitions, concepts and tools used in the IS field. It focuses on discussing the business implications of information systems. Topics covered include Business Information Systems, Database Systems and Applications, Telecommunications and Networks, Electronic and Mobile Commerce and Enterprise Systems, and Decision Support Systems. |

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| Course Intended learning outcomes (CILOs) of the course  | Referenced PILOs (Only write code number of referenced Program Intended learning outcomes) |
| a.1 | Define concepts, theories, and principles about information systems. | A1, A2, A4 |
| a.2 | Describe the components and roles of information systems.  | A1, A2, A4 |
| b.1 | Explore the key features of the e-Commerce, e-Business, and electronic payment systems needed to support e-commerce and m-commerce. | B1,B2 |
| b.2 | Investigate how information systems enable and enhance the organization | B1, B2, |
| c.1 | Employ principles and concepts of information systems to solve problems, and/or take opportunities for organizations. | C1, C3 |
| c.2 | Operate information systems in the functional areas of business organization. | C2, C3 |
| d.1 | Communicate effectively and collaborate with others.  | D1 |
| d.2 | Engage in life-long self-learning; develop metacognitive skills, and ability to evaluate yourself. | D2 |

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| **(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:** |
| Course Intended Learning Outcomes  | Teaching strategies | Assessment Strategies |
| **a1**. Define concepts, theories, and principles about information systems. | * Lecture and presentation
* Dialogue and discussion.
* Self and cooperative learning
* Brainstorming.
* Problem Solving.
 | * Quizzes
* Homework Assessment
* Midterm Exam
* Final Exam
 |
| **a2**. Describe the components and roles of information systems.  |

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| **(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:** |
| Course Intended Learning Outcomes | Teaching strategies | Assessment Strategies |
| **b1.** Explore the key features of the e-Commerce, e-Business, and electronic payment systems needed to support e-commerce and m-commerce. | * Lecture and presentation
* Dialogue and discussion
* Self and cooperative learning
* Brainstorming.
* Problem Solving.
 | * Quizzes
* Homework Assessment
* Midterm Exam
* Final Exam
 |
| **b2.** Investigate how information systems enable and enhance the organization |

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| **( C ) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:** |
| Course Intended Learning Outcomes | Teaching strategies | Assessment Strategies |
| **c1.** Employ principles and concepts of information systems to solve problems, and/or take opportunities for organizations. | * Lecture and presentation
* Discussion
* Self and cooperative learning.
* Brainstorming.
* Problem Solving.
 | * Quizzes
* Homework Assessment
* Midterm Exam
* Final Exam
 |
| **c2.** Operate information systems in the functional areas of business organization. |

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| **(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:** |
| Course Intended Learning Outcomes | Teaching strategies | Assessment Strategies |
| **d1.** Communicate effectively and collaborate with others.  | * Discussion
* Self and cooperative learning
 | * Performance observation.
* Homework Assessment
 |
| **d2.** Engage in life-long self-learning; develop metacognitive skills, and ability to evaluate yourself. |

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| Course Content: |
| **A – Theoretical Aspect:**  |
| **Order** | **Units/Topics List** | **Learning Outcomes** | **Sub Topics List** | **Number of Weeks** | **contact hours** |
| **1** | An Introduction to Information Systems in Organizations | a1, a2, b2, c1,d1,d2 | * Information Concepts
* What Is an Information System?
* Computer-Based Information Systems
* Business Information Systems
* Systems Development
 | 2w | 6 |
| **2** | Database Systems and Applications | a1,a2,b2,c1,c2,d1,d2 | * Data Management
* Data Modeling and Database Characteristics
* Database Management Systems
* Database Applications
 | 2w | 6 |
| **3** | Telecommunications and Networks | a1,a2,b2,c1,c2,d1,d2 | * An Overview of Telecommunications
* Networks and Distributed Processing
* Use and Functioning of the Internet
* The World Wide Web
* Internet and Web Applications
* Intranets and Extranets
 | 2w | 6 |
| **4** | Electronic and Mobile Commerce and EnterpriseSystems | a1,a2,b1,b2,c1,c2,d1,d2 | * An Introduction to Electronic Commerce
* Mobile Commerce
* Electronic and Mobile Commerce Applications
* E-Commerce and M-Commerce Technology Infrastructure
* An Overview of Transaction Processing Systems
* Transaction Processing Activities
* Enterprise Resource Planning
 | 3w | 9 |
| **5** | Information and Decision Support Systems | a1,a2, b2,c1,c2,d1,d2 | * Decision Making and Problem Solving
* An Overview of Management Information Systems
* Functional Aspects of the MIS
* An Overview of Decision Support Systems
* Components of a Decision Support System
* Group Decision Support Systems
 | 2w | 6 |
| **6** | Knowledge Management and Specialized InformationSystems | a1,a2,b2,c1,c2,d1,d2 | * Knowledge Management Systems
* Overview of Artificial Intelligence
* Overview of Expert Systems
* Components of Expert Systems
* Multimedia and Virtual Reality
 | 3w | 9 |
| **Number of Weeks /and Units Per Semester** | **14w** | **42** |

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|  **B - Practical Aspect: (if any)** |
| **Order** | **Tasks/ Experiments** | **Number of Weeks** | **contact hours** | **Learning Outcomes** |
| **1** |  |  |  |  |
| **Number of Weeks /and Units Per Semester** |  |  |  |

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| Teaching strategies of the course:  |
| * **Lectures**
* **Discussion**
* **Brainstorming**
* **Problem solving**
* **Self-learning**
* **Cooperative learning**
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| Assignments:  |
| **No** | **Assignments** | **Aligned CILOs (symbols)** | **Week Due** | **Mark** |
| 1 | Homework | a1, a2, b1, b2,d1,d2 | 6th , 12th  | 10 |
| 2 |  |  |  |  |

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| Schedule of Assessment Tasks for Students During the Semester: |
| **No.** | **Assessment Method** | **Week Due** | **Mark** | **Proportion of Final Assessment** | **Aligned Course****Learning****Outcomes** |
| 1 | Homework | 6th , 12th  | 10 | 10% | a1, a2, b1, b2,d1,d2 |
| 2 | Quiz1 | 4th  | 5 | 5% | a1,a2,b1,b2,c1,c2 |
| 3 | Midterm Exam | 7th  | 20 | 20% | a1,a2,b1,b2,c1,c2 |
| 4 | Quiz2 | 11th  | 5 | 5% | a1,a2,b1,b2,c1,c2 |
| 5 | Final Exam | 16th  | 60 | 60% | a1,a2,b1,b2,c1,c2 |

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| Learning Resources: |
| * *Written in the following order: ( Author - Year of publication – Title – Edition – Place of publication – Publisher).*
 |
| **1- Required Textbook(s) ( maximum two ).** |
|  | 1. Ralph M. Stair & George W. Reynolds, 2016, Fundamentals of Information Systems, Eighth Edition, USA, Cengage Learning.
 |
| **2- Essential References.** |
|  | 1. James A. O’Brien, George M. Marakas, 2011, Management information systems, 10th edition, USA, McGraw-Hill/Irwin.
2. Effy Oz, 2009, Management Information Systems, Sixth Edition, USA, Cengage Learning.
 |
| **3- Electronic Materials and Web Sites *etc*.** |
|  | 1. <https://www.britannica.com/topic/information-system>
2. <https://study.com/academy/lesson/information-systems-resources-networks-hardware-software-data-people.html>
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| Course Policies: |
| Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see: ------------------------------------The University Regulations on academic misconduct will be strictly enforced. Please refer to ----------- |
| 1 | Class Attendance: A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic |
| 2 | Tardy: For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.  |
| 3 | Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam. |
| 4 | Assignments & Project The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time. |
| 5 | Cheating: For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty. |
| 6 | Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university. |
| 7 | Other policies: * Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room
* Mobile phones are not allowed in class during the examination.
* Lecture notes and assignments my given directly to students using soft or hard copy
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Faculty of Computer & Information Technology

**Department of Information System**

**Program of Information System**

Course syllabus of Information System Fundamentals

Course No ( **………………. )**

**2020/2021**

# **Template for Course Plan (Syllabus)**

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| - Information about Faculty Member Responsible for the Course:  |
| **Office Hours** | Dr. Mansour N. Ali | **Name of Faculty Member** |
| **THU** | **WED** | **TUE** | **MON** | **SUN** | **SAT** | 775450055 | **Location& Telephone No.**  |
|  |  |  |  |  |  | almarhoob@gmail.com | **E-mail** |

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| Course Identification and General Information: |
| **1** | **Course Title:** | Information System Fundamentals |
| **2** | **Course Code & Number:** |  |
| **3** | **Credit hours:**  | C.H | Total |
| Th. | Seminar |  Pr | Tr. |
| 3 | - | - | - | ***3*** |
| **4** | **Study level/ semester at which this course is offered:** | *1st Year/2nd Semester* |
| **5** | **Pre –requisite (if any):** | Introduction to Computer |
| **6** | **Co –requisite (if any):** | None |
| **7** | **Program (s) in which the course is offered:** | IS |
| **8** | **Language of teaching the course:** | English/Arabic |
| **9** | **Study System** | Term based system |
| **10** | **Mode of delivery:** | Full Time |
| **11** | **Location of teaching the course:** | Faculty of Computer and Information Technology |

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|  Course Description: |
| This is a foundation course that introduces students to the definitions, concepts and tools used in the IS field. It focuses on discussing the business implications of information systems. Topics covered include Business Information Systems, Database Systems and Applications, Telecommunications and Networks, Electronic and Mobile Commerce and Enterprise Systems, and Decision Support Systems. |

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| Intended learning outcomes (ILOs) of the course: |
| * Brief summary of the knowledge or skill the course is intended to develop**:**
 |
|  | **a1**. Define concepts, theories and principles about information systems.**a2**. Describe the components and roles of information systems. **b1.** Explore the key features of the e-Commerce, e-Business, and electronic payment systems needed to support e-commerce and m-commerce.**b2.** Investigate how information systems enable and enhance the organization**c1.** Employ principles and concepts of information systems to solve problems, and/or take opportunities for organizations.**c2.** Operate information systems in the functional areas of business organization.**d1.** Communicate effectively and collaborate with others. **d2.** Engage in life-long self-learning; develop metacognitive skills, and ability to evaluate yourself. |

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| Course Content: |
| * Distributionof Semester Weekly Plan of Course Topics/Items and Activities.
 |
| **A – Theoretical Aspect:**  |
| **Order** | **Topics List** | **Week Due** | **Contact Hours** |
| **1** | An Introduction to Information Systems in Organizations | 1st -2nd | 6 |
| **2** | Database Systems and Applications | 3rd -4th  | 6 |
| **3** | Telecommunications and Networks | 5th -6th  | 6 |
| **4** | Midterm Exam | 7th  | 2 |
| **5** | Electronic and Mobile Commerce and EnterpriseSystems | 8th ,9th ,10th  | 9 |
| **6** | Information and Decision Support Systems | 11th -12th  | 6 |
| **7** | Knowledge Management and Specialized InformationSystems | 13th -15th  | 9 |
| **8** | Final Exam | 16th  | 2 |
| **Number of Weeks /and Units Per Semester** | **16** | **46** |

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| **B – Practical Aspect: *(if any)***  |
| **Order** | **Topics List** | **Week Due** | **Contact****Hours** |
| **1** |  |  |  |
| **Number of Weeks /and Units Per Semester** |  |  |

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|  Teaching strategies of the course:  |
| * **Lectures**
* **Discussion**
* **Brainstorming**
* **Problem solving**
* **Self-learning**
* **Cooperative learning**
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| Assignments:  |
| **No** | **Assignments** | **Aligned CILOs (symbols)** | **Week Due** | **Mark** |
| 1 | Homework | a1, a2, b1, b2,d1,d2 | 6th , 12th  | 10 |
| 2 |  |  |  |  |

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| Schedule of Assessment Tasks for Students During the Semester: |
| **No.** | **Assessment Method** | **Week Due** | **Mark** | **Proportion of Final Assessment** |
| 1 | Homework  | 6th , 12th  | 10 | 10% |
| 2 | Quiz1 | 4th  | 5 | 5% |
| 3 | Midterm Exam | 7th  | 20 | 20% |
| 4 | Quiz2 | 11th  | 5 | 5% |
| 5 | Final Exam | 16th  | 60 | 60% |

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| Learning Resources: |
| * *Written in the following order: ( Author - Year of publication – Title – Edition – Place of publication – Publisher).*
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2. Effy Oz, 2009, Management Information Systems, Sixth Edition, USA, Cengage Learning.
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2. <https://study.com/academy/lesson/information-systems-resources-networks-hardware-software-data-people.html>
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| 4 | Assignments & Project The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time. |
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* Mobile phones are not allowed in class during the examination.
* Lecture notes and assignments my given directly to students using soft or hard copy
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| **اللجنة الإشرافية** |
| **م.**  | **الاســـــم** | **الصـــــــــفة** | **التوقيع** |
| **1** | **أ.م.د. عبد الماجد الخليدي** | **نائب عميد الكلية للشؤون الأكاديمية** |  |
| **2** | **أ.م.د. احمد مجاهد** | **نائب عميد مركز التطوير الأكاديمي وضمان الجودة** |  |
| **3** | **د. حسين الأشول** | **ممثل المركز في الكلية** |  |
| **4** | **أ.د. إبراهيم المطاع**  | **نائب رئيس الجامعة للشؤون الأكاديمية** |  |