**King Saud University**

**College of Computer and Information Sciences**

**Department of Information Systems**

**IS201–Fundamentals and Ethics of Information Systems (3-0-1)**

**Semester I, Academic Year 2017-2018**

**Section 31275-31279**

**Meeting Times: Sun., Tue., Thu. (8:00AM-8:50AM)&(11:00AM-11:50AM)**

**Current Instructor:** Lecturer/Ashraf Youssef

Department of Information Systems

Room G050, Tel: 469-7476

Office Hours:

Sunday: 9:00 to 10:00

Tuesday: 9:00 to 10:00

or by appointments

Email: [ashraf@ksu.edu.sa](mailto:ashraf@ksu.edu.sa)

Url of the course on: http://fac.ksu.edu.sa/ashraf

**Course Coordinator:** Dr. Jawad Berri

**Textbook(s) and/or Other Required Materials:**

#### Primary: Ralph Stair and G. Reynolds, Fundamentals of Information systems, Thomson Course Technology, 8th Edition, 2016.

**Course Description (catalog):**

This course introduces students to the fundamentals of information systems and to ethical issues related to information systems as a discipline and profession. Topics covered include: definition of information systems, hardware and software, the binary system, telecommunications and networks, concepts of information, database approach to data management, systems development, specialized information systems, moral, legal and social issues in the cyberspace, professional conduct, personal, local and global impacts of computers, and IS professionals’ need for continuous professional development.

**Prerequisites:** CT 140

**Co-requisite:** None

**Course Type:** Required

**Course Learning Outcomes:** After completing this course, the students will be able to:

1. Identify and describe the components of an information system
2. Identify and describe the functions of computer devices
3. Convert a number from and to the binary system
4. Identify major advantages of the database approach
5. Analyze the local and global impact of computing
6. Identify and describe the steps of the systems development process
7. Identify major ethical issues related to information systems
8. Understand major legal issues of computing
9. Understand social issues and responsibilities related to information systems
10. Recognize the need for continuous professional development

**Student Outcomes Covered by Course**

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Student Outcome Description** | **Coverage** |
| (a) | 1. An ability to apply knowledge of computing and mathematics appropriate to the discipline | **√** |
| (b) | 1. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution |  |
| (c) | 1. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs |  |
| (d) | 1. An ability to function effectively on teams to accomplish a common goal |  |
| (e) | 1. An understanding of professional, ethical, legal, security and social issues and responsibilities | **√** |
| (f) | 1. An ability to communicate effectively with a range of audiences |  |
| (g) | 1. An ability to analyze the local and global impact of computing on individuals, organizations, and society | **√** |
| (h) | 1. Recognition of the need for and an ability to engage in continuing professional development | **√** |
| (i) | 1. An ability to use current techniques, skills, and tools necessary for computing practice. |  |
| (j) | 1. An understanding of processes that support the delivery and management of information systems within a specific application environment. |  |

**Course Outcomes vs. Student Outcomes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| # | Course Outcomes | ABET Student Outcomes | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J |
| 1 | Identify and describe the components of an information system | X |  |  |  |  |  |  |  |  |  |
| 2 | Identify and describe the functions of computer devices | X |  |  |  |  |  |  |  |  |  |
| 3 | Convert a number from and to the binary system | X |  |  |  |  |  |  |  |  |  |
| 4 | Identify major advantages of the database approach |  |  |  |  |  |  | X |  |  |  |
| 5 | Analyze the local and global impact of computing |  |  |  |  |  |  | X |  |  |  |
| 6 | Identify and describe the steps of the systems development process | X |  |  |  |  |  |  |  |  |  |
| 7 | Identify major ethical issues related to information systems |  |  |  |  | X |  |  |  |  |  |
| 8 | Understand major legal issues of computing |  |  |  |  | X |  |  |  |  |  |
| 9 | Understand social issues and responsibilities related to information systems |  |  |  |  | X |  |  |  |  |  |
| 10 | Recognize the need for continuous professional development |  |  |  |  |  |  |  | X |  |  |

**Major Topics covered and schedule in weeks:**

|  |  |
| --- | --- |
| * Introduction to information systems in organizations | 1 |
| * Hardware and software | 1 |
| * The binary system | 2 |
| * Organizing data and information | 2 |
| * Telecommunications, the internet, intranets and extranets | 1 |
| * Knowledge management and specialized information systems | 2 |
| * Systems development | 2 |
| * The personal and social impact of computers | 1 |
| * Local and global impact of computing on the work environment | 1 |
| * Ethical and legal issues in information systems. | 2 |

**Assessment Plan for the Course**

|  |  |  |
| --- | --- | --- |
| **Assessment** | **Date / Week due** | **Grade** |
| Homework 1 | Fifth | 4% |
| Quiz 1 | Sixth | 8% |
| Midterm 1 | Seventh - Tuesday 31/10/2017 | 15% |
| Homework 2 | Tenth | 4% |
| Quiz 2 | Eleventh | 8% |
| Midterm 2 | Twelfth – Wednesday 5/12/2017 | 15% |
| Final |  | 40% |
| Active class participation |  | 6% |

**Course Policies:**

* No makeup quizzes will be made for missing a quiz.
* No homework is accepted after the deadline.
* The final exam will be comprehensive.
* Absences of more than 25% of classes (lectures or tutorials) will result in automatically being barred from attending the final exam.

**Academic Honesty:**

* Any work you submit must be your own work.
* You should always reference and give credit to any work done by others.
* Cheating or plagiarism is considered as a serious academic offense and will result in receiving a failing grade.