هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

# Course Specification

هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

# Course Specification

| | |
|---|---|
| Course Title: | **Computer Ethics and Society** |
| Course Code: | **1244 CIS** |
| Program: | **Information Systems** |
| Department: | **NA** |
| College: | **Applied College** |
| Institution: | **King Khalid University** |
| Version: | **1** |
| Last Revision Date: | **7 August 2023** |

# Table of Contents:

## A. General information about the course:

| Course Identification | | | | | |
|---|---|---|---|---|---|
| **1. Credit hours:** | | | | | |
| **2. Course type** | | | | | |
| a. | University ☐ | College ☒ | Department☐ | Track☐ | Others☐ |
| b. | Required ☒ | Elective☐ | | | |
| **3. Level/year at which this course is offered:** | 2nd Level | | | | |
| **4. Course general Description:** Computers and high-speed communication networks are transforming our world. These technologies have brought us many benefits, but they have also raised many social and ethical concerns. A thoughtful response to Information technology requires a basic understanding of its history, an awareness of current information-technology related issues, and a familiarity with ethics. This course offers extensive and topical coverage of the Legal, ethical, and societal implications of computer science and Information Technology. Students will learn Legal and ethical issues of infringement of intellectual property, security risks, Internet crime, identity theft, etc. Students will gain an absolute foundation in ethical decision making for current and future business managers and computer professionals. | | | | | |
| **5. Pre-requirements for this course (if any):** | | | | | |
| **6. Co- requirements for this course (if any):** | | | | | |
| **7. Course Main Objective(s):** The course of Computer Ethics and Society aims to educate students before graduation about the work environment and the ethics of which some professions, such as those who work in computing and IT fields, should have. Also, students will be Introduced to social and ethical issues relating to computer science and information technology. This course will cover various topics such as Intellectual Property, the Information Privacy, Network and computer security. Students should have a working knowledge of personal computing. This extends to cover the importance of the existence of professional code of ethics in the IS and IT work environment. | | | | | |

### 1. Teaching mode (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|---|---|---|---|
| 1. | Traditional classroom | 32 | 100 |
| 2. | E-learning | | |
| 3. | Hybrid<br>● Traditional classroom<br>● E-learning | | |

| No | Mode of Instruction | Contact Hours | Percentage |
|---|---|---|---|
| 4. | Distance learning | | |

## 2. Contact Hours (based on the academic semester)

| No | Activity | Contact Hours |
|---|---|---|
| 1. | Lectures | 32 |
| 2. | Laboratory/Studio | |
| 3. | Field | |
| 4. | Tutorial | |
| 5. | Others (specify) | |
| | Total | 32 |

## B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Code of CLOs aligned with program | Teaching Strategies | Assessment Methods |
|---|---|---|---|---|
| 1.0 | Knowledge and understanding | | | |
| 1.1 | Describe the meaning of ethics and the different Ethical Views. | k1 | Lectures | Exams, Assignments and Quizzes |
| 1.2 | Define different ethical terms: privacy, Freedom of Speech, and Intellectual Property. | k2 | Lectures | Exams, Assignments and Quizzes |
| 2.0 | Skills | | | |
| 2.1 | Distinguish between different kinds of ethical and legal violations in different cases such as in copyrights law, patents, Intellectual Property rights, issues for software developers. | s2<br>s3 | Lectures | Exams and Assignments |
| 2.2 | Analyze the issues aggravated by Networking; explain methods to enhance Computer Security and Computer Reliability and Explain different types of crimes in field of computing. | s1 | Lectures | Exams and Assignments |
| 3.0 | Values, autonomy, and responsibility | | | |
| 3.1 | Analyze an ethical scenario on Professional Ethics, automation and unemployment and digital divide and demonstrate Ethical Guidelines for Computer Professionals Scenarios | v1<br>v3 | Lectures | Exams, Assignments and presentation |

## C. Course Content

| No | List of Topics | Contact Hours |
|---|---|---|
| 1 | Introduction to Ethics<br>■ Overview to Ethical Theories<br>Social Contract Theories | 3 |
| 2 | Networking<br>■ Email and Spam | 4 |

| | | |
|---|---|---|
| | ■ Social /Technical Solutions<br>■ World Wide Web (www): attributes and how we use ( wiki, blogs, social networking, online game)<br>■ Freedom of Expressions<br>■ Censorship and Web Filters<br>Ethical Evaluation of Internet Addiction | |
| 3 | Intellectual Property<br>■ Intellectual Property Right<br>■ Protecting Intellectual Property<br>■ Fair Use and new restrictions on use<br>■ Peer to Peer Network<br>■ Open Source Software<br>Legitimacy of Intellectual Property Protection for Software | 4 |
| 4 | Information Privacy<br>■ Perspective of Privacy<br>■ Information Disclosure<br>Data Mining | 3 |
| 5 | Privacy and the Government<br>■ Introduction<br>■ National Identification Card<br>Information Dissemination | 4 |
| 6 | Computer and Network Security<br>■ Hacking<br>■ Malware<br>■ Cyberware<br>■ Cyber Crime and Cyber Attack<br>Online Voting | 4 |
| 7 | Computer Reliability<br>■ Data-Entry or Data-Retrieval Errors<br>■ Software and Billing Errors<br>■ Notable Software System Failures<br>■ Computer Simulations<br>■ Software Engineering<br>Software Warranty | 4 |
| 8 | Professional Ethics<br>■ Are Computer Experts Professionals<br>■ Software Engineering Code of Ethics<br>Analysis of the Code | 3 |
| 9 | Work and Wealth<br>■ Automation and Unemployment<br>■ Work Place Change | 3 |

| | | |
|---|---|---|
| | ■ Globalization<br>■ Digital Divide<br>Case Studies | |
| Total | | 32 |

## D. Students Assessment Activities

| No | Assessment Activities * | Assessment timing (in week no) | Percentage of Total Assessment Score |
|---|---|---|---|
| 1. | Quiz 1 | 4 | 5 |
| 2. | Midterm Exam 1 | 7 | 15 |
| 3. | Midterm Exam 2 | 12 | 15 |
| 4. | Quiz 2 | 14 | 5 |
| | Assignments | 5 - 15 | 20 |
| 5. | Final Exam | After week 16 | 40 |

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

# E. Learning Resources and Facilities

## 1. References and Learning Resources

| | |
|---|---|
| Essential References | Ethics for the Information Age, Michael J. Quinn (2016), ISBN-13: 9780134296548 Published 02/11/2016, 7th Edition, Pearson. |
| Supportive References | The Handbook Of Information And Computer Ethics, Kenneth Einar Himma and Herman T. Tavani ISBN 978-0-471-79959-7, Wiley.<br><br>Frank Bott: Professional Issues in Information Technology, British Computer Society 3rd Edition, 2005. |
| Electronic Materials | https://education.oracle.com<br>Course website at Blackboard on https://lms.kku.edu.sa |
| Other Learning Materials | • Saudi anti-cybercrime law<br>• Saudi electronic transactions law<br>• Communication and information technology commission Saudi Arabia<br>• http://www.citc.gov.sa/english/rulesandsystems/citcsyste/pages/electronictransactionslaw.aspx |

## 2. Required Facilities and equipment

| Items | Resources |
|---|---|
| facilities<br>(Classrooms, laboratories, exhibition rooms, simulation rooms, etc.) | Lecture Room with enough capacity Chairs Projector/Screen. |
| Technology equipment<br>(projector, smart board, software) | Projector and smart board |
| Other equipment<br>(depending on the nature of the specialty) | |

# F. Assessment of Course Quality

| Assessment Areas/Issues | Assessor | Assessment Methods |
|---|---|---|
| Effectiveness of teaching | Students | Indirect |
| Effectiveness of students assessment | Course Teacher | Direct |
| Quality of learning resources | Program Supervisor, Quality Unit | Direct |
| The extent to which CLOs have been achieved | Course Teacher | Direct |
| Other | Course Teacher, Quality Unit | Direct |

**Assessor** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval Data

| | |
|---|---|
| COUNCIL /COMMITTEE | |
| REFERENCE NO. | |
| DATE | |