Majmaah University

Course Specifications

Institution:	College of Science at Az Zulfi
Academic Department :	Department of Computer Science and Information
Programme :	Computer Science and Information Program
Course :	Professional Ethics
Course Coordinator :	....
Programme Coordinator :	Associate Prof. Yosry Azzam
Course Specification Approved Date :	22/ 12 / 1435 H

A. Course Identification and General Information

1 - Course title : Professional Ethics	Course Code: CSI 525
2. Credit hours : (2 Credit Hours) (2 Lecture)	
3 - Program(s) in which the course is offered: Computer Science & Information	
4 – Course Language : English	
5 - Name of faculty member responsible for the course:	
6 - Level/year at which this course is offered : 10th Level	
7 - Pre-requisites for this course (if any) :	
• CSI 422	
8 - Co-requisites for this course (if any) :	
• None	
9 - Location if not on main campus :	
(College of Science at Az Zulfi)	

10 - Mode of Instruction (mark all that apply)

A - Traditional classroom	√	What percentage?	80 %
B - Blended (traditional and online)	√	What percentage?	10 %
D - e-learning		What percentage?	…. %
E - Correspondence		What percentage?	…. %
F - Other	√	What percentage?	10 %

Comments :

B Objectives

What is the main purpose for this course?

This course will examine the ethical issues that arise as a result of increasing use of computers, and the responsibilities of those who work with computers, either as computer science professionals or end users. The course will stress the ways in which computers challenge traditional ethical and philosophical concepts, and raise old issues in a new way. By the end of this course, students will be expected to read and understand the ideas in the readings; explain the ideas; analyze issues and see them from diverse perspectives; and formulate and critique arguments. The readings will include technical issues in computer science and may focus on a particular area such

as software design as well as more traditional topics such as philosophical theories (e.g. ethical relativism, utilitarianism, deontological theories, rights, and virtue ethics), privacy, intellectual property rights and proprietary software, security, accountability, liability, the digital divide, hacking, and viruses.

Here are several course goals:
- To give a deep understanding of the social impact of computers and the ethical issues in human activities affected by computers,
- To prepare the student for living in a computerized world and perhaps working as a professional in the computing field,
- To improve presentation, debating and writing skills.

Briefly describe any plans for developing and improving the course that are being implemented :

1. Formative exams during the term with a feedback to the students, so these examinations can be used as a method of learning.
2. Using group discussions through the internet with course attending students.
3. Updating the materials of the course to cover the new topics of the field.
4. Help students to develop their knowledge about the topics that are presented in the course.

C. Course Description

1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
1. Introduction: An introduction to the ethical issues that arise as a result of increasing use of computers, and the responsibilities of those who work with computers, either as computer science professionals or end users - The Ethical Dilemma of computer science professionals.	2	4
2. Concepts: The ways in which computers challenge traditional ethical and philosophical concepts - Safety and Health in the Workplace (OSHA) - Professional Ethics - Professional Responsibility - Computers, Individual Mortality and Social Policy.	2	4

3. Read and Understand: Read and understand the ideas in the readings; explain the ideas; analyze issues and see them from diverse perspectives; and formulate and critique arguments.	2	4
4. Reading Technical Issues: Reading technical issues in computer science that focus on software life cycle - Reading technical issues in computer science that focus on philosophical theories (e.g. ethical relativism, utilitarianism, deontological theories, rights, and virtue ethics).	3	6
5. Reading Technical Issues (Cont.): Reading technical issues in computer science that focus on privacy, intellectual property rights and proprietary software, security, accountability, liability, the digital divide, hacking, and viruses.	3	6
6. Ethical Issues: Honesty, Integrity and Reliability - Safety, Risk and Liability in computer science - computer science professionals as Employees - computer science professionals and Environment - Engineering Professionalism and Ethics.	3	6

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	....	....	....	....	30
Credit	30	....	....	....	....	30

3. Additional private study/learning hours expected for students per week.

The private self-study of my student is crucial for this course. It includes:

- Reading carefully the topics in the textbook or reference book,
- Searching the websites that are related to the course,
- Solving the exercises that are assigned,
- Discussing the course topics with the instructor in his office hours,
- Watching video lectures of other instructors who presented related topics worldwide.

The total workload of the student in this course is then: 30 + 3 * 15 = 75 work hours.

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	Recognize the need for and an ability to engage in continuing professional development.	Lectures Case studies Individual presentations	Written Exam Homework assignments Class Activities Quizzes
2.0	**Cognitive Skills**		
2.1	Apply different ethical frameworks to analyze an ethical problem.	Lectures Case studies Individual presentations Brainstorming	Written Exam Homework assignments Class Activities Quizzes
3.0	**Interpersonal Skills & Responsibility**		
3.1	Adhere professional, ethical, legal, security, and social issues and their responsibilities that are	Small group discussion	Written Exam Homework

		NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
		related to the discipline.	Whole group discussion Brainstorming Presentation	assignments Class Activities Quizzes
4.0	**Communication, Information Technology, Numerical**			
4.1		Function effectively in teams to accomplish a common goal.	Small group discussion Whole group discussion Brainstorming Presentation	Written Exam Homework assignments Class Activities Quizzes
4.2		Communicate effectively with a range of audiences.		
5.0	**Psychomotor**			
		N/A		

5. Schedule of Assessment Tasks for Students During the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	First written mid-term exam	6	15%
2	Second written mid-term exam	12	15%
3	Presentation, class activities, and group discussion	Every week	10%
4	Homework assignments	After every chapter	10%
5	Research about presented topics	Every two weeks	10%
6	Final written exam	16	40%
	Total		100%

D. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

1. 6-office hours per week in the lecturer schedule.

2. The contact with students by e-mail , mobile, office telephone and website.

E. Learning Resources

1. List Required Textbooks :
- Deborah Johnson, Computer Ethics, 4th ed., 2009.

2. List Essential References Materials :
- Richard Spinello and Herman Tavani, Readings in CyberEthics, 2nd ed., 2004.

3. List Recommended Textbooks and Reference Material :
- INTERNATIONAL JOURNAL OF ETHICS.
- ETHICS AND INFORMATION TECHNOLOGY JOURNAL.
- INTERNATIONAL JOURNAL OF ETHICS OF SCIENCE AND TECHNOLOGY ASSESSMENT.

4. List Electronic Materials :
- http://nptel.ac.in/courses.php?branch=Comp
- https://www.coursera.org/

5. Other learning material :
- Video and presentations that available with the instructor.

F. Facilities Required

1. Accommodation • Classrooms, and • Library, as those that are available at the college of science at Az Zulfi.
2. Computing resources • Smart Board.
3. Other resources • None.

G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching: • Questionnaires (course evaluation) filled by the students and electronically organized by the university. • Student-faculty management meetings.
2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor : • Discussion within the staff members teaching the course. • Departmental internal review of the course.
3. Processes for Improvement of Teaching : • Periodical departmental revision of methods of teaching. • Monitoring of teaching activates by senior faculty members. • Training course.
4. Processes for Verifying Standards of Student Achievement • Instructors of the course checking together and putting a unique process of the evaluation.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement : • Course evaluation. • Exam evaluation. • Improvement plan.

Course Specification Approved

Department Official Meeting No (6) Date 22 / 12 / 1435 *H*

Course's Coordinator	Department Head
Name :	*Name :* Associate Prof. Yosry Azzam
Signature :	*Signature :* ....
Date : …./ … / …… H	*Date :* …./ … / …… H