



## Course Specification

**Course Name:** [Professional Ethics ]

**Course Code:** [HU334]

### I. Basic Course Information

Major or minor element of program: General

Department offering the course: Faculty

Academic level: [300 Level]

Semester in which course is offered: [First (Fall) Semester]

Course pre-requisite(s): [N/A ]

Credit Hours: 3

Contact Hours Through:

Lecture	Tutorial *	Practical *	Total
2.5	1.5	0.0	4.0

\* 1.5 hours for **either** Tutorial or Practical

Approval date of course specification: September 2014

### II. Overall Aims of Course

[The course is designed to expose students to some of the ethical dilemmas posed to our culture as a result of the current technological trends. The students will examine how computers have affected society and how they could further affect it in the future. Students will study various ethical standards and creeds offered through a variety of organizations (e.g., ACM). Students will learn to evaluate case studies from an ethical perspective. Students will be expected to conduct literature surveys, produce bibliographies, write literature reviews, and offer critical evaluation of writings related to ethics and technology.

Topics to be considered include the professions and professionalism, relationships between professional and ordinary ethics, social responsibilities of the professions, professional/client relationships, regulation of the professions, and codes of ethics.

We will examine various ethical issues surrounding computers. These will include piracy, hacking, viruses, responsibility and liability for the use of software, cyberporn, computerized invasion of privacy, computers in the workplace, and the use of artificial intelligence and expert systems. We will also consider many of the moral and professional issues that those who work with computers might expect to face.]



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III. Program ILOs covered by course

Program Intended Learning Outcomes (By Code)			
Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
[K1,K8,K9 ]	[I5,I8 ]	[P11 ]	[G2,G6,G8,G9 ]

IV. Intended Learning Outcomes of Course (ILOs)

*a. Knowledge and Understanding:*

On completing the course, the student should be able to:

- K.1 State the importance of computers as tools;
- K.2 Recognize the political and economic power relations that influence the direction of technological progress;
- K.3 Define applied ethics and computer ethics;
- K.4 Discuss the difference between moral and ethics;
- K.5 Recognize the importance of morality to society and within the discipline;
- K.6 Explain the different ethical theories, their advantages, and drawbacks;
- K.7 Distinguish between viruses, worms, and trojans in action;
- K.8 Explain and give examples of crimes against and using computers;
- K.9 Explain software piracy and list methods of protecting software;
- K.10 Explain hacking (computer intruders) and social problems due to computers;
- K.11 List different codes of ethics.

*b. Intellectual/Cognitive Skills*

On completing the course, the student should be able to:

- I.1 Identify which values and stakeholders are relevant to a given technological nexus;
- I.2 Construct, analyze, and criticize arguments invoking various values;
- I.3 Analyze moral decision making for different cases and actions;
- I.4 Analyze the morality of actions by applying different ethical theories;
- I.5 Anticipate criminal and social problems related to computers;
- I.6 Formulate technological and/or institutional alternatives so that technology protects and advances human values, instead of doing damage to them;
- I.7 Formulate ethics to newly arising problems;
- I.8 Select solutions to computer related problems.

*c. Practical/Professional Skills*

On completing the course, the student should be able to:

- P.1 Understand the professional ethics and responsibilities of a computer scientist;
- P.2 Understand the implications of contemporary computing and information processing issue relative to society;
- P.3 Think critically about the ethical implications of what computer scientists do;
- P.4 Apply solutions (counteractions) to protect themselves at work and protect the society from their products.



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#### d. General and Transferable Skills

On completing the course, the student should be able to:

- G.1 Improve their communication skills.
- G.2 Work independently.
- G.3 Work in a team.
- G.4 Effectively express ideas through written communication.
- G.5 Acquire the foundations to be a life-long learner.
- G.6 Apply the moral decision making and ethical theories to daily situations.
- G.7 Think and discuss social related problems, build an argument, and defend personal opinions.

#### V. Course Matrix Contents

	Main Topics / Chapters	Duration (Weeks)	Course ILOs Covered by Topic (By ILO Code)			
			K & U	I.S.	P.S.	G.S.
1-	Computer and Applied Ethics	[ 1 ]	[K1,K2 ]	[I1,I3 ]	[P1,P2 ]	[ ]
2-	Ethical Decision Making	[ 1 ]	[K3,K9 ]	[ ]	[ ]	[G6 ]
3-	Is Ethics Possible?	[ 1 ]	[K5,K10 ]	[I6 ]	[ ]	[ ]
4-	Basic Ethical Theories	[ 2 ]	[ ]	[ ]	[P3,P4 ]	[G4,G5 ]
5-	Computer Crimes	[ 2 ]	[K11 ]	[I2 ]	[ ]	[ ]
6-	Software Piracy	[ 2 ]	[K4 ]	[I7 ]	[ ]	[ ]
7-	Computer Intruders, Viruses, ...	[ 2 ]	[K8 ]	[I8 ]	[ ]	[ ]
8-	Social Problems	[ 2 ]	[K6,K7 ]	[I4,I5 ]	[ ]	[G1,G2,G3,G7 ]
	<b>Net Teaching Weeks</b>	<b>13</b>				

#### VI. Course Weekly Detailed Topics / hours / ILOs

Week No.	Sub-Topics	Total Hours	Contact Hours	
			Theoretical Hours	Practical Hours *
1	Computer and Applied Ethics	2.5	2.5	
2	Ethical Decision Making	4	2.5	1.5
3	Is Ethics Possible?	4	2.5	1.5
4	Basic Ethical Theories	4	2.5	1.5
5	Basic Ethical Theories	4	2.5	1.5
6	Computer Crimes	4	2.5	1.5
7	<b>Midterm Exam</b>			
8	Computer Crimes	4	2.5	1.5
9	Software Piracy	4	2.5	1.5
10	Software Piracy	4	2.5	1.5
11	Computer Intruders, Viruses, ...	4	2.5	1.5
12	Computer Intruders, Viruses, ...	4	2.5	1.5
13	Social Problems	4	2.5	1.5
14	Social Problems	4	2.5	1.5
15	<b>Final Exam</b>			
<b>Total Teaching Hours</b>		<b>51</b>	<b>33</b>	<b>18</b>

\* No Practical/Tutorial during the first week of the semester



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VII. Teaching and Learning Methods

Teaching/Learning Method	Selected Method	Course ILOs Covered by Method (By ILO Code)			
		K & U	Intellectual Skills	Professional Skills	General Skills
Lectures & Seminars	<input checked="" type="checkbox"/>	[K1,K2]	[I2,I3]	[P4]	[G4,G5]
Tutorials	<input checked="" type="checkbox"/>	[K10,K11]		[P1]	[G1]
Computer lab Sessions	<input type="checkbox"/>				
Practical lab Work	<input checked="" type="checkbox"/>	[K3,K6]	[I5]	[P2]	[G2,G3]
Reading Materials	<input type="checkbox"/>				
Web-site Searches	<input checked="" type="checkbox"/>	[K4]	[I1,I4]		
Research & Reporting	<input checked="" type="checkbox"/>	[K5]	[I8]		
Problem Solving / Problem-based Learning	<input type="checkbox"/>				
Projects	<input type="checkbox"/>				
Independent Work	<input type="checkbox"/>				
Group Work	<input checked="" type="checkbox"/>	[K8]	[I7]	[P3]	[G6]
Case Studies	<input checked="" type="checkbox"/>	[K7,K9]	[I6]	[P1]	[G7]
Presentations	<input type="checkbox"/>				
Simulation Analysis	<input type="checkbox"/>				
Others (Specify):	<input type="checkbox"/>				

VIII. Assessment Methods, Schedule and Grade Distribution

Assessment Method	Selected Method	Course ILOs Covered by Method (By ILO Code)				Assessment Weight / Percentage	Week No.
		K & U	I.S.	P.S.	G.S.		
Midterm Exam	<input checked="" type="checkbox"/>	[K1,K2,K3]	[I3,I5]	[P1,P4]	[G1,G3]	20 %	7
Final Exam	<input checked="" type="checkbox"/>	[K5,K7,K11]	[I1,I2]	[P3,P4]	[G2,G4,G5]	60%	15
Quizzes	<input type="checkbox"/>						
Course Work	<input checked="" type="checkbox"/>	[K4,K6]	[I4]	[P2]		10 %	[2,5]
Report Writing	<input type="checkbox"/>						
Case Study Analysis	<input checked="" type="checkbox"/>	[K9]	[I8]	[P3]	[G7]	[5 %]	[9]
Oral Presentations	<input type="checkbox"/>						
Practical	<input type="checkbox"/>						
Group Project	<input checked="" type="checkbox"/>	[K8, K10]	[I6,I7]	[P2,P3]	[G6]	5 %	[11]
Individual Project	<input type="checkbox"/>						
Others (Specify):	<input type="checkbox"/>						



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### IX. List of References

<b>Essential Text Books</b>	•	None
<b>Course notes</b>	•	Personal course notes
<b>Recommended books</b>	•	None
<b>Periodicals, Web sites, etc ...</b>	•	[Will be specified later]

### X. Facilities required for teaching and learning

[List the facilities required • Whiteboard • Data show]
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**Course coordinator:** Ass.Prof. Ihab El-Khodary

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**Head of Department:**[Prof. Imane Aly Saroit]  
Vice Dean for Education and Student affairs

**Date:**[September 2014]