



Jordan University of Science and Technology
Faculty of Computer & Information Technology
Computer Information Systems Department

CIS 200 Professional & Ethical Issues in Computing

Course Catalog

1 Credit hours 1 h lectures): This course introduces students to the social context of the IT industry and its practices. These include professional and ethical responsibilities in the analysis and design of systems. Also, in ensuring the safety of work environments, risks and liabilities of computer-based systems, intellectual property, computer crime, privacy and economic issues in computing.

Text Book(s)

Title	Ethics and Technology
Author(s)	Herman T.Tavani
Publisher	Wiley
Year	2011
Edition	3 rd Ed.

Instructors

Instructor	Rawan T. Khasawneh
Office Location	Medical building, Ph2 level 0
Office Phone	
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Class Schedule & Room

Section	Time	Days	Room	Instructor
2	03:15-04:15	Sunday, Tuesday, Thursday	SF08	Rawan T. Khasawneh
4	03:15-04:15	Sunday, Tuesday, Thursday	SF08	Rawan T. Khasawneh
6	03:15-04:15	Sunday, Tuesday, Thursday	SF08	Rawan T. Khasawneh

Office Hours

Rawan T. Khasawneh:
Monday and Wednesday: 11:30-12:30
Sun, Tues, Wed 12:00 – 13:00

Teaching Assistant

TBD

Prerequisites

Prerequisites by course | None

Topics Covered		
Topics	Chepters in Text	Week number
Why we need to learn about ethics	Chapter 1	1
Introduction to ethics	Chapter 1	2
Cyberethics evolution: four development phases	Chapter 1	3
Traditionalists and uniqueness proponents view of ethical issues	Chapter 1	4
Ethics and morality	Chapter 2	5,6
Ethical theories: utilitarianism, deontology, contract-based, and character-based	Chapter 2	7,8
Introduction to privacy: what, exactly, personal privacy is, and why it is important	Chapter 5	9
Classical theories of privacy	Chapter 5	10
Cybertechnology techniques that threaten privacy	Chapter 5	11
Protecting personal privacy in public space	Chapter 5	12
Privacy-enhancing technologies	Chapter 5	13

Course Objectives				
No.	Object	Mapping Course Outcome	Mapping Program Outcome	Assessment Methods
1	Create an understanding of some foundational ethical concepts and methodological frameworks that can be used in cyberethics issues analysis	1, 2, 3, 4, 5, 6, 7, 8	3, 7, 8, 9	Exams & Quizzes
2	Create an understanding of modern moral problems and how they can be evaluated using different ethical theories.	5,6,7	3, 7, 8, 10	Exams & Quizzes
3	Create an understanding of several ethical issues involving privacy and cybertechnology.	8, 9, 10, 11	3, 7, 8, 9, 10	Exams & Quizzes

Course Outcomes		
No.	Outcome	Related Chapters
1	Explain why we need to learn about ethics	Ch 1
2	Define key terms such as cyberethics, cybertechnology, ethics, and personal privacy	Ch1, 2, 5
3	Describe key development phases of cybertechnology and cyberethics	Ch1
4	Consider whether there is anything unique or special about cyberethics issues	Ch1
5	Explain how ethics is different from morality	Ch2
6	Explain the key elements that make up a moral system: describe from where these elements come from, and how they can be justified	Ch2
7	Explain ethical theories and describe how each theory different from others	Ch2
8	Describe personal privacy and how it can be valued	Ch5

9	Explain traditional theories of privacy	Ch5
10	Describe how personal privacy can be protected in public space	Ch5
11	Describe how technologies can be used to protect personal privacy (privacy-enhancing technologies)	Ch5

Program Outcomes	
No.	Outcome
1	An appropriate mastery of the knowledge, techniques, skills, and modern tools of their disciplines
2	An ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology
3	An ability to critically analyze a business problem within its unique context
4	An ability to design regular or innovative IT-based solutions
5	An ability to identify, analyze and solve technical problems
6	An ability to function effectively and efficiently on teams of different specialties
7	A recognition of the need for, and an ability to engage in lifelong learning
8	An ability to understand professional, ethical and social responsibilities
9	A respect for diversity and a knowledge of contemporary professional, societal and global issues
10	A commitment to quality, timeliness, and continuous improvement
11	An ability to participate and/or supervise the implementation of IT-based solutions

Relationship to program outcomes (score out of 5)													
A	B	C	D	E	F	G	H	I	J	K	L	M	N
		4				3	4	4	3				

Evaluation					
Assessment Tool	Expected Due Date				Weight
	Day	Date	Time	Place	
1st Exam	TBD	TBD			30%
2nd Exam	TBD	TBD			30%
Final Exam	TBD	TBD			40%

Policy	
Attendance	Attendance is very important for the course. In accordance with university policy, students missing more than 20% of total classes are subject to failure. No excuses will be accepted. Penalties may be assessed without regard to the student's performance. Attendance will be recorded at the beginning or end of each class.
Activities	Several activities including quizzes will be given in different dates during the semester.
Exams	All exams will be CLOSE-BOOK. The date of the Exams will be scheduled according to the department schedule

Since its involvement in promoting international reflection on the ethics of life sciences in the 1970s, UNESCO continues to build and reinforce linkages among ethicists, scientists, policy-makers, judges, journalists, and civil society to assist Member States in enacting sound and reasoned policies on ethical issues in science and technology.Â Capacity-builder â€œ providing Member States with the necessary tools and technical support for the enhancement of their national ethics infrastructure Ethics of Socially Disruptive Technologies. Conferences. TU Eindhoven. Keynote address: Prof. Ingrid Robeyns.Â On Thursday 7th November, Ingrid will be talking about the Promises and Limits of the Capability Approach for the Ethics of Technology. In the last two decades, the capability approach has become a widely used normative approach in a wide range of disciplines. Yet until recently, the capability approach was often reduced to the Ethics of Socially Disruptive Technologies. Conferences. TU Eindhoven. Ethics, Technology, and Engineering. An Introduction Ibo van de Poel and LambÃ³r Royakkers. A John Wiley & Sons, Ltd., Publication.Â Ethics and Conduct of Professional Engineers Appendix IV: Shell Code of Conduct Appendix V: DSM Values and Whistle Blowing Policy Glossary References Index of Cases Index. ix. 249.

“Ethics” and Ethics. Facebook fishing for our email passwords, Roomba is hovering up all the data on our homes, Amazon is listening to our conversations for laughs, Tik-Tok spying on our kids. And that we see so much dirt on the surface makes it likely that under the surface it’s even worse. The solution for all of this: “Ethics”. Design ethics! The discussion around “ethics” in technology is mostly smoke. The rest is mirrors. Resources on technology ethics including ethics in IT and biotechnology from the Markkula Center for Applied Ethics. In Technology Ethics, the Markkula Center for Applied Ethics addresses issues arising from artificial intelligence, cybersecurity, information technology, biotechnology, and other emerging fields. Overview of Technology Ethics.