

CPIS-428 Syllabus

Catalog Description

CPIS-428 Professional Computing Issues

Credit: 2 (Theory: 2, Lab: 0, Practical: 0)

Prerequisite: CPIS-323

Classification: College Required

The objective of this course is to explore the ethical and social issues sparked by the ever-growing information society at the local and global level. Topics include the impact of digitized information on individuals and societies, privacy, intellectual property, computer crimes, evaluating and controlling technology, and professional ethics and responsibilities. The course also explores the social impact of information technology in different areas of human life such as Internet, information flooding, and the computerized world, business, medicine, law, government, transportation, entertainment, education, banking, e-commerce, communications, an overview of the law, ownership of software, software contracts and liability, privacy and the data protection act, computer misuse, and forensic, societies for computing professionals, and professionalism and ethics.

Class Schedule

Two 50 minute sessions per week

Textbook

George Reynolds, , "Ethics in Information Technology",
Cengage Learning; 5 edition (2014-01-01)

ISBN-13 9781285197159 **ISBN-10** 1285197151

Grade Distribution

Week	Assessment	Grade %
4	Homework Assignments 1	5
6	Exam 1	20
8	Homework Assignments 2	5
12	Exam 2	20
13	Group Project	10
16	Comprehensive Final Exam	40

Last Articulated

December 28, 2017

Relationship to Student Outcomes

a	b	c	d	e	f	g	h	i	j	k	l	m	n
				x		x							

Course Learning Outcomes (CLO)

By completion of the course the students should be able to

1. Define the basic concepts of ethics and its impact on business today. (e)
2. Discuss the ethical issues and the trend that is increasing the risk of using information technology in an unethical manner. (e)
3. Analyze the impact of information and communication technologies on organization and society. (g)
4. Describe the key ethical issues arise from IT workers and IT Users. (e)
5. Discuss the terms intellectual property (copyrights, patents and trade secret laws, Open Source), plagiarism and reverse engineering. (e)
6. Analyze the security control mechanisms, managing security vulnerabilities, attack prevention and computer forensics. (e)
7. **Discuss the key ethical issues associated with the use of contingent workers, green computing and offshore outsourcing companies. (e)**
8. **Applying the behavioural ethics in the IT organizations (g)**
9. **Analyze the local and global impact of social networking on individuals and society. (g)**
10. Analyze the capabilities of advanced surveillance technologies for workplace monitoring covering the laws that provide protection for the privacy of personal data. (g)
11. Judge the most common types of computer security attacks, primary perpetrators and computer crime. (e)
12. **Discuss the proprietary rights in computer software, ethical issues that software manufacturers face in making trade-offs between project schedules, project costs, and software quality. (g)**
13. **Describe the essential components of software development methodology, safety-critical system and some other special requirements for software development (e)**

Coordinator(s)

Dr. Suaad Alarifi, Assistant Professor

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Topics Coverage Durations

Topics	Weeks
An Overview of Ethics	1
Ethics for IT Workers and IT Users	1
Computer and Internet Crime	2
Privacy	2
Freedom of Expression	1
Intellectual Property	2
Software Development	1
The Impact of Information Technology on Productivity and Quality of Life	1
Social Networking	2
Ethics of IT Organizations	2