

QFO-AP-FI-MO02	اسم النموذج: خطة تدريس مادة دراسية Syllabus	جامعة فيلادلفيا
رقم الاصدار: 1 Revision	الجهة المصدرة: كلية تكنولوجيا المعلومات	 Philadelphia University
التاريخ: 2017/11/05	الجهة المدققة: عمادة التطوير والجودة	
عدد صفحات النموذج: 3		

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**Department of Software Engineering
Second Semester, 2017/2018**

Course Syllabus

Course Title: Computing Ethics	Course code: 721240
Course Level: Second Year	Course prerequisite: 0731110
Lecture Time: 9:10- 10:00	Credit hours: 3h

**Academic Staff
Specifics**

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Wafa' Bani Mustafa	Lecturer	IT 333	10:10 – 11:00 12:10– 11:00	wbanimustafa@philadelphia.edu.jo

Course description:

This course will develop the ethical foundations of good professional practice in computing and will give students an informed awareness of the principal issues of ethics and professional responsibility in the development and use of computers and information systems. It will provide a basic survey of ethical theories and discuss the role of professional organizations in maintaining good practice, both in general and then specifically in the computing industry. It will also consider legislation that applies in the computing industry, including three major areas of ethical concern in computing: computer cracking, data privacy and intellectual property of software.

Course objectives:

1. Understand the basic concepts of ethics, moral, law, ergonomics and profession.

2. Be able to recognize and distinguish different kinds of ethical arguments
3. Know why professions have codes of conduct, and what is included in the international computer organization code of conduct
4. Recognize potential health and safety issues in computing
5. Be aware of the requirements for accreditation in respect of Professional Issues.
6. Have a basic knowledge of Intellectual Property Rights (IPR) in relation to Copyright and Patents.
7. Be aware of the requirements for professionalism in respect of the work of the professional societies and their codes of conduct and practice.
8. Be able to explain the nature of privacy and how it is protected by different Acts.
9. Be able to justify the existence of property laws and explain the legal mechanisms which protect software as property
10. Be able to assess and evaluate the legal aspect of workplace practices.
11. Be able to assess and evaluate the impacts of IT technology on society and culture.
12. Be aware of Jordanian Professional Issues.

Course components:

Books

- Sara Baase, A Gift of Fire: Social, Legal and Ethical Issues for Computer and the Internet, 4th ed., 2012.
- Michael J. Quinn, Ethics for the Information Age, 3rd Ed., Addison-Wesley 2009.
- Gorge Reynolds, Ethics in Information Technology, Thomson, 2003.
- Tavani H. T. and Hoboken N. J., Ethics and Technology, John Wiley, 3rd Ed, 2004.
- Deborah G. Johnson, Computer Ethics. 3rd Edition, Englewood Cliffs, N.J., Prentice Hall, 2001.

Support material (s):

Lectures, discussion groups, tutorials, problem solving, debates... etc.

Teaching methods: Lectures, Tutorials.

Duration: 16 weeks, 64 hours in total. Lectures: 42 hours, Tutorial: 8 hours. Laboratory: 14 hours

Learning outcomes

- A. Knowledge and understanding
 - 1) Be able to better understand the difference between what is ethical and what is legal **(A6)**
 - 2) Have a basic knowledge of IPR(Intellectual property right) in relation to Copyright and Patents **(A5)**
- B. Intellectual (thinking skills)
 - 1) Be aware of health and safety issues in IT products **(B8)**
 - 2) Have improved knowledge and some experience of group working and distributed enterprises **(B5)**
- C. Practical skills (personal and academic).
 - 1) Have acquired some basic discussion skills **(C9)**
 - 2) Be aware of the requirements for professionalism in respect of the work of the professional societies and their codes of conduct and practice. **(C7)**
- D. Transferable Skills
 - 1) Satisfy the requirements for ACM/IEEE accreditation in respect of Ethical and Professional Issues **(D8)**
 - 2) Have an appreciation of basic legal processes and of computer misuse, fraud and the law as it stands in the world with respect to IT **(D1)**

3) Have an appreciation of the law relation to contracts and safety-critical systems and legal liability. **(D4)**

Assessment instruments

Learning outcomes of A and B are assessed by examinations and tutorials.
Learning outcomes of C and D are assessed by assignments.

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20
Second examination	20
Final examination:	40
Classworks/Practice	20
Total	100

Documentation and academic honesty

- Documentation style (with illustrative examples)
 - Practical works reports must be presented according to the style specified in the homework and practical work guide
- Protection by copyright
- Avoiding plagiarism
 - Any stated plagiarism leads to an academic penalty

Course/module academic calendar

Week	Basic and support material to be covered
(1)	Information Technology Changes
(2)	Impacts of IT Changes
(3)	Impacts of IT Changes
(4)	Introduction to Ethics
(5)	Ethics Philosophical Issues
(6)	Ethics Philosophical Issues
(7)	Privacy
First examination	
(8)	Privacy
(9)	Intellectual Property Rights
(10)	Intellectual Property Rights
(11)	Computer Crimes
(12)	Computer Crimes
(13)	Work
Second examination	
(14)	Work
(15)	Evaluating and Controlling the technology
(16)	Discussion of Working Papers
Final Examination	

Expected workload

On average students need to spend 2 hours of study and preparation for each 50-minutes lecture/tutorial.

Attendance policy

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references

Books

1. Michael J. Quinn, Ethics for the Information Age, 3rd Ed., Addison-Wesley 2009.
2. Gorge Reynolds, Ethics in Information Technology, Thomason, 2003.
3. Tavani H. T. and Hoboken N. J., Ethics and Technology, John Wiley, 3rd Ed, 2004.
4. سعد عبد الستار مهدي المهداوي، " الجوانب الأخلاقية و المهنية في تكنولوجيا المعلومات "، مؤسسة الوراق للنشر و التوزيع، عمان، الأردن، 2009

Journals

مجموعة تشريعات الملكية الفكرية الأردنية

Websites

Center for Computing and Social Responsibility (CCSR):

<http://www.ccsr.cms.dmu.ac.uk/>

Computer Professionals for Social Responsibility (CPSR):

<http://www.cpsr.org/>

ACM, IEEE and BCS Web Sites.

www.cyberethics.cbi.msstste.edu

www.aitp.org

www.acm.org

www.prenhall.com

www.jcs.rg.jo