

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

### Course Syllabus

Course Title: Computing Ethics	Course Code: 721240
Course Level: Second Year	Course prerequisite: 0731110
Lecture Time:	Credit hours: 3

### Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address

#### Course module description:

This course develops the ethical foundation of professional practice in computing. It also gives students an informed awareness of the principal issues of ethics and professional responsibility in the development and use of computers and information systems. It provides a basic survey of ethical theories and discusses the role of professional organisations in maintaining good practice, both in general and then specifically in the computing industry. Moreover, it considers legislations that are applied in the computing industry, including three major areas of ethical concern in computing: computer cracking, data privacy and intellectual property of software.

#### Course module objectives:

1. Understand the basic concepts of ethics, moral, law, ergonomics and profession.
2. Be able to recognise and distinguish different kinds of ethical arguments.

3. Know why professions have codes of conduct, and what is included in the international computer organisation code of conduct.
4. Recognise 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/ module components**

#### **Books**

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

#### **Teaching methods:**

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

#### **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 of Learning Outcomes

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

<b>Allocation of Marks</b>	
<b>Assessment Instruments</b>	<b>Mark</b>
First examination	<b>20 marks</b>
Second examination	<b>20 marks</b>
Final examination:	<b>40 marks</b>
Quizzes, Home works	<b>20 marks</b>
Total	<b>100 marks</b>

### Documentation and academic honesty

- Documentation style (with illustrative examples)
- Protection by copyright
- Avoiding plagiarism.

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### Course/module academic calendar

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

### Expected workload:

On average students need to spend 2 hours of study and preparation for each 50-minute 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, 3<sup>rd</sup> 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](http://www.cyberethics.cbi.msstste.edu)

[www.aitp.org](http://www.aitp.org)

[www.acm.org](http://www.acm.org)

[www.prenhall.com](http://www.prenhall.com)

[www.jcs.rg.jo](http://www.jcs.rg.jo)