

Module specification

1. Factual information			
Module title	TM260 Security, ethics and privacy in IT and Computing	Level	2
Module tutor	TBA	Credit value	15
Module type	Taught	Notional learning hours	4

2. Rationale for the module and its links with other modules

The ITC specialists must conduct ethically by adhering to the ITC code of conduct and understand the social, professional and legal context of IT and computing,

3. Aims of the module

The module aims to: increase students awareness of the ethical, professional and legal issues of IT and computing and the responsible use of ITC.

Upon the successful completion of this module students will be able to:

1. Consider the ethical issues related to ITC systems.
2. Act ethically while making any profession related decisions.
3. Apply all legal principles to intellectual property and ITC related situation.
4. understand the emerging issues related to ethics in cyberspace
5. Develop a sound methodology in resolving ethical conflicts and crisis.
6. Understand the social and ethical issues in the professional practice of computing and technology and their impact on the society..
7. Look up relevant ethical standards as developed by the ACM.
8. State several examples of important ethical principles as they apply to computer science related situations.
9. Identify the ethical issues that relate to computer science in real situations they may encounter and decide whether a given action is ethical as regards computer science professional ethics, and justify that decision.
10. Research and write a professional-quality paper about a topic relating to social, legal, and ethical implications of computer science.

4. Pre-requisite modules or specified entry requirements

Students are expected to have completed the study of TM112 module.

5. Intended learning outcomes	
A. Knowledge and understanding	Learning and teaching strategy
<p>After completing this module, students will be able to:</p> <p>A1. Understand how ITC could raise social issues and ethical dilemmas</p> <p>A2. Understand the historical background of some social, legal, philosophical, political, constitutional and economical issues related to ITC</p> <p>A3. Describe current social and legal developments related to computers and computer crime</p> <p>A4. Recognize the existence of computer abuse cases , laws pertaining to them</p> <p>A5. Appreciate the value of technology and identify the ethical and moral situations that must be faced and dealt with.</p> <p>A6. Deepen their understanding of technology and its effects on society.</p>	<ul style="list-style-type: none"> • 25% face-to-face tutorial sessions • TMA work • Module learning booklets and support material

B. Cognitive skills	Learning and teaching strategy
<p>After completing this module, students will be able to:</p> <p>B1. Evaluate the legal and professional impact of ITC in real life contexts</p> <p>B2: Analyse the effect of ethical issues on IT industry and society</p>	<ul style="list-style-type: none"> • 25% face-to-face tutorial sessions • TMA work • Module learning booklets and support material

C. Practical and professional skills	Learning and teaching strategy
<p>After completing this module, students will be able to:</p> <p>C1. Effectively identify and analyze professional and legal issues;</p> <p>C2. Promote an ethics of computing in practice;</p> <p>C3. Resolve dilemmas related to ethical, professional and legal ITC issues</p>	<ul style="list-style-type: none"> • 25% face-to-face tutorial sessions • TMA work • Module learning booklets and support material

D Key transferable skills	Learning and teaching strategy
<p>After completing this module, students will be able to:</p> <p>D1. Communicate effectively in writing about ethical, legal and professional issues in the ITC context</p> <p>D2. Become an independent learner.</p>	<ul style="list-style-type: none"> • 25% face-to-face tutorial sessions • TMA work • Module learning booklets and support material

6. Indicative content.
<p>The topics covered in this module are:</p> <ul style="list-style-type: none"> • History of ITC • An overview of Ethics • Morality and Ethical Theories • Ethics, Technology and Value • Ethics for IT Professionals and IT Users • Anonymity, Security, Privacy and Civil Liberties • Invasion of privacy. Privacy in the Workplace and on the Internet • Freedom of Expression • Intellectual Property Rights and Computer Technology

6. Indicative content.

- Software Issues: safety, risks, reliability and liabilities
- Computer crime and computer security.
- Computer and information system failure.
- Social implications of the Internet
- Cyber Security
- Information security
- Legal issues in ITC

7. Assessment strategy, assessment methods and their relative weightings

TMA Work: 20%

MTA: 30%

Final Exam: 50%

8. Mapping of assessment tasks to learning outcomes

Assessment tasks	Learning outcomes												
	A1	A2	A3	A4	A5	A6	B1	B2	C1	C2	C3	D1	D2
TMA'S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MTA	✓	✓	✓		✓	✓	✓	✓		✓		✓	✓
Final	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓

9. Teaching staff associated with the module

Name and contact details
TBA

10. Key reading list				
Author	Year	Title	Publisher	Location
George Reynolds	2015	Ethics in information technology	Cengage Learning ISBN-10: 1285197151 ISBN-13: 9781285197159	http://www.cengage.com/search/productOverview.do;jsessionid=4739D94ADCB331B54954D8DA59A53D9E?N=14+4294922389&Ntk=P_EPI&Ntt=97161446214803553881476373155676755624&Ntx=mode%2Bmatchallpartial
Michael J. Quinn	2011	Ethics for the Information Age (fourth edition)	Addison Wesley	ISBN-10: 0-13-213387-3, ISBN-13: 978-0-13-213387-6
Sara Baase	2013	A Gift of Fire: Social, Legal, and Ethical Issues for Computing Technology (fourth edition)	Prentice Hall	www.pearsonhighered.com/educator/product/Gift-of-Fire-A-Social-Legal-and-Ethical-Issues-for-Computing-Technology/9780132492676.page
Deborah Johnson	2009	Computer Ethics, 4/E	Pearson	http://www.pearsonhighered.com/educator/pr oduct/Computer-

10. Key reading list				
Author	Year	Title	Publisher	Location
				Ethics/9780131112414. page
<u>Robert N. Barger</u>	2008	Computer Ethics A Case-based Approach	Cambridge University Press ISBN: 9780521709149	http://www.cambridge.org/cl/academic/subjects/computer-science/computing-and-society/computer-ethics-case-based-approach?format=HB
Joseph M. Kizza	2013	Ethical and Social Issues in the Information Age (Fifth edition)	ISBN: 978-1-4471-4989-7 (Print) 978-1-4471-4990-3 (Online)	http://link.springer.com/book/10.1007%2F978-1-4471-4990-3

11. Other indicative text (e.g. websites)
<ol style="list-style-type: none"> 1. http://computingcases.org/ 2. https://lms.arabou.edu.kw/ 3. Using the new ACM code of ethics in decision making, Communications of the ACM, 36(2) 1993 pp.98-107. http://www.acm.org/about/code-of-ethics 4. CSCE 390: Professional Issues in Computer Science and Engineering (Spring 2010), http://www.cse.sc.edu/~mgv/csce390sp10/index.html 5. http://web2.aabu.edu.jo/syllabus.jsp?id=9&dept=0&co=904380 6. ECE 481 Ethics in Electrical and Computer Engineering, http://www2.ece.ohio-state.edu/~passino/ee481.html 7. Ethical and Social Issues in Information Systems, http://www.santarosa.edu/~ssarkar/cs66sp09/notes/ch4notes.htm 8. CSI 2911 W2012 Professional Practice in Computer Science, http://www.site.uottawa.ca/~stan/csi2911/ 9. CSC 1200 Ethics in computing, http://csc.lsu.edu/~busch/