

**Module Title: Professional and Social Issues in Computing**

Module Code: CMM2321

Module Value: 0.5

Duration: 15 weeks

Class-Contact Hours: Lecture 15 hours.

Tutorial 15 hours.

Assessment Scheme: Continuous Assessment 100%

**Module Rationale/Aims:**

To develop an awareness of

- the professional ethics of the computing profession;
- the social, commercial and financial implications of the use of computers;
- the structure and responsibilities of the computer profession.

**Learning Objectives:**

Students will be able to:

- make reasonable decisions on ethical dilemma;
- understand the major potential impacts to society for the professional work they will perform after graduation;
- identify the various types of organizational structures for IT and the roles of the computing profession within the organization;
- differentiate personal and professional responsibilities.

**Syllabus Keywords:**

Morals, ethics, professional ethics, personal ethics guideline, ethics culture, code of ethics, norm theory, moral rule, absolutism, decision model, encryption, ciphers, authentication, liability, negligence, copyright, patent, trade secret, ethical issues, political issues, privacy, surveillance, e-Commerce, e-Business, computer crime.

**Recommended Textbooks/References:**

Sara Baase, A Gift of Fire – Social, legal and Ethical Issues in Computing, Prentice-Hall. D.G. Johnson, Computers, Ethics and Social Values, Prentice-Hall. Martin Nemzow, Building Cyberstores, McGraw-Hill, 1997 Debra Cameron, The World Wide Web - Strategies an Opportunities for Business, Computer Technology Research Corp, 1996. Ernest A. Kallman and John P. Grillo, Ethical Decision Making and Information Technology – An Introduction with Cases, 2 nd edition, McGraw-Hill, 1996. D. Langford, Practical Computer Ethics, 1 st edition, McGraw-Hill, 1995. Chai Wan Computing Course Board Page 2 - 33 Information Systems Development / Network Applications

**Content Lecture Tut/Lab.**

**1 Computing Personnel and Society**

- a Role of computing personnel
- b Information technology organization structure
- c Continual professional development

**2 Ethics**

- a Various types of ethics
- b Legal, and financial responsibilities
- c Social responsibilities
- d Professional bodies

**3 Commercial and financial issues**

- a Data protection
- b Copyright and licensing
- c Intellectual property rights and product liability
- d e-Commerce and e-Business

**4 Social Issues**

- a Privacy
- b Failures and fraud
- c Hacking
- d Computer Crime
- e Impacts

**5 Ethical issues of Hong Kong society**