Faculty of Science and Technology

Ethical and Professional Issues in ICT / Software Engineering Ethics

Coursework: Day Session

Key Points:

- To be attempted in formed groups and it is expected that each group member contributed to doing the work.
- You are required to research the allocated topic including but not limited to the subtopics given.
- Make a Power Point presentation and be ready to present your work on the stipulated date.
- During presentations prepare to reference real life use cases and related examples
- Do **NOT** exceed 12 slides. It is important that you read and conceptualize the content for presentation preparation.
- All Group members will be expected to participate in the presentations (3 students per group).
- Not all group members qualify for the same grade during assessment
- Submit your work to v-class only after the presentation in class. Those who will not have presented in class will not be graded.

Topic 1: Computer Crime – Group 1, Group 11, Group 21, Group 31
- Examples of computer crime
- Viruses, worms, and Trojan horses
- Computer crimes prevention strategies
- Ethical issues around computer crimes

Topic 2: Intellectual Property - Group 2, Group 7, Group 22, Group 32
- Foundations of intellectual property
- Copyrights, patents, and trade secrets
- Software piracy & Software patents
- Ethical issues concerning intellectual property

Topic 3: Privacy - Group 3, Group 12, Group 23, Group 33
- Ethical and legal basis for privacy protection
- Examples of Privacy violations
- Technological strategies for privacy protection

- Freedom of expression in ICT space

Topic 4: Risks and Liabilities – Group 4, Group 41, Group 24, Group 34
- Examples of software risks
- Product safety and public consumption
- Implications of software complexity
- Risk assessment and management

Topic 5: Digital Divide - Group 5, Group 10, Group 25, Group 35
- Definition and how it can be bridged
- Factors that contribute to the digital divide
- Why is the digital divide an important global issue?
- Ethical issues around digital divide

Topic 6: Whistle blowing - Group 6, Group 13, Group 26, Group 36
- Concept of whistle blowing
- Why Whistle Blowing?
- Circumstances under which a computing professional is permitted to blow a whistle
- Ethical dilemma in ICT

Topic 7: Freedom of Expression - Group 8, Group 14, Group 27, Group 37
- Concept of freedom of expression
- Why freedom of speech is important in society
- Rights to freedom of speech
- Key Issues on freedom of Speech

Topic 8: Ethical Decisions in Software Development - Group 15, Group 18, Group 28, Group 39
- Concept of ethics in software development in organizations
- Illegal usage of software development processes in organizations
- Software quality assurance and why it is important
- Strategies for developing quality software

Topic 9: Impact of IT on Society - Group 16, Group 19, Group 29, Group 40
- Overview of how IT is impacting society
- Impact of IT on the standard of living and productivity of employees
- Workplace automation ethics
- Issues associated with impact of IT on workers healthcare

Topic 10: Social Media Ethics - Group 17, Group 20, Group 30, Group 9
- Concept of ethics in social media
- Impact of social networking platforms on community
- Business applications of social networks
- Ethical issues in social networking

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