

CS-306 (Professional Ethics)

Second Semester

Course Description

Course Code number	CS-306	Course Title	Professional Ethics
Semester hours	3 hours	No. of Credit Units	3
Prerequisite	None	Course Coordinator	Dr. Thidar Win Faculty of Computer Science

Course Aims:

This undergraduate-level course addresses a different aspect of ethics in information technology, including Privacy, Computer and Internet Crime, Freedom of Expression, and Intellectual Property. We also discuss the impact of information technology on productivity and the quality of life.

Learning Outcomes:

In this course, students learn to make broad-minded, objective, and ethical decisions based on technical savvy and sense of ethics.

Course Contents:

- An Overview of Ethics: Definition of Ethics, The Importance of Integrity, Difference between Moral, Ethics, and Laws, Ethics in Business World, Why Fostering Good Business Ethics is Important, Improving Corporate Ethics, Creating an Ethical Work Environment, Including Ethical Considerations in Decision Making, Ethics in Information Technology.
- Ethics for IT Professionals and IT Users: Definition of Professional, Are IT Workers Professionals?, IT Professional Relationship (Employers, Clients, Suppliers, Other professionals, IT users, Society at large), IT Professional Codes of Ethics, IT Professional Organizations, IT Certification, IT Government Licensing, IT Professional Malpractice, Common Ethical Issues for IT Users, Supporting the Ethical Practices of IT Users.
- Computer and Internet Crime: IT Security Incidents: A Major Concern, Why Computer Incidents are so Prevalent?, Types of Exploits, Types of Perpetrators, Federal Laws for Prosecuting Computer Attacks, Implementing Trustworthy Computing, Risk Assessment, Establishing a Security Policy, Educating Employees, Contractors, and Part-Time Workers, Prevention, Detection, Response.

- Privacy: Privacy Protection and the Law, Information Privacy, Privacy Laws, Applications, and Court Rulings, Financial Data, Health Information, Children Personal Data, Electronic Surveillance, Export of Personal Data and Access to Government Records, Case Study: Google, Key Privacy and Anonymity Issues, Identity Theft, Consumer Profiling, Treating Consumer Data Responsibility, Work Place Monitoring, Advanced Surveillance Technology.
- Intellectual Property: What is Intellectual Property?, Copyright, Patents, Trade Secrets, Key Intellectual Property Issues: Plagiarism, Reverse Engineering, Open Source Code, Competitive Intelligence, and Cybersquatting.

Reference Materials:

1. Ethics in Information Technology, George W. Reynolds, Fifth Edition

Link: <ftp://ftp.ucsy.edu.site>

Course Organization:

The expected learning outcomes for the course will be assessed through six forms of activity:

1. Attending the lectures
2. Preparing for presentation and participating in the recitations
3. Reading Assignments
4. Moodle Test
5. Quiz
6. Term Paper Report
7. Moodle Exam

Exam Assessment:

Assessment evaluation will be:

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| ○ Exam (Moodle) | 50% |
| ○ Term paper report (Individual) | 20% |
| ○ Class participation/ Quiz | 10% |
| ○ Moodle Test | 10 % |
| ○ Presentation (Group) | 10 % |

Lecture Plan

Periods : 45 periods for 15 weeks
3 Period per week (50 minutes = 1 period)

No.	Content	Weeks	Remark
	An Overview of Ethics		Chapter 1
1.	What is Ethics? Definition of Ethics The important of Integrity The difference Between Morals, Ethics, and Laws Ethics in the Business World Corporate Social Responsibility Why Fostering Corporate Social	Week 1	
2.	Responsibility and Good Business Ethics Is Important Improving Corporate Ethics Creating an Ethical Work Environment Including Ethical Considerations in Decision Making Develop a Problem Statement Identify Alternatives Evaluate and Choose an Alternative Implement the Decision Evaluate the Results	Week 2	
3.	Ethics in Information Technology Self-Assessment Questions Discussion Questions What Would You Do? Cases Quiz / Moodle Test/Group Presentation/ Report	Week 3	
	Ethics for IT Workers and IT Users		Chapter 2
4.	IT Professionals Are IT Workers Professionals? Professional Relationships That Must Be Managed Professional Codes of Ethics Professional Organizations Certification Government Licensing IT Professional Malpractice	Week 4	
5.	IT Users Common Ethical Issues for IT Users Supporting the Ethical Practices of IT Users Compliance	Week 5	

6.	Self-Assessment Questions Discussion Questions What Would You Do? Cases Quiz / Moodle Test/Group Presentation/ Report	Week 6	
	Computer and Internet Crime		Chapter 3
7.	IT Security Incidents: A Major Concern Why Computer Incidents Are So Prevalent Types of Exploits Types of Perpetrators Federal Laws for Prosecuting Computer Attacks	Week 7	
8.	Implementing Trustworthy Computing Risk Assessment Establishing a Security Policy Educating Employees and Contract Workers Prevention Detection Response	Week 8	
9.	Self-Assessment Questions Discussion Questions What Would You Do? Cases Quiz / Moodle Test/Group Presentation/ Report	Week 9	
	Privacy		Chapter 4
10.	Privacy Protection and the Law Information Privacy Privacy Laws, Applications, and Court Rulings	Week 10	
11.	Key Privacy and Anonymity Issues Data Breaches Electronic Discovery Consumer Profiling Workplace Monitoring Advanced Surveillance Technology	Week 11	
12.	Self-Assessment Questions Discussion Questions What Would You Do? Cases Quiz / Moodle Test/Group Presentation/	Week 12	

	Report		
	Intellectual Property		Chapter 6
13.	<p>What Is Intellectual Property? Copyrights Copyright Term Eligible Works Fair Use Doctrine Software Copyright Protection The Prioritizing Resources and Organization for Intellectual Property (PRO-IP) Act of 2008 General Agreement on Tariffs and Trade (GATT) The WTO and the WTO TRIPS Agreement (1994) The World Intellectual Property Organization (WIPO) Copyright Treaty (1996) The Digital Millennium Copyright Act (1998)</p>	Week 13	
14.	<p>Patents 228 Leahy-Smith America Invents Act (2011) Software Patents Cross-Licensing Agreements Trade Secrets Trade Secret Laws Employees and Trade Secrets</p>	Week 14	
15.	<p>Key Intellectual Property Issues Plagiarism Reverse Engineering Open Source Code Competitive Intelligence Trademark Infringement Cybersquatting Self-Assessment Questions Discussion Questions What Would You Do? Cases Quiz / Moodle Test/Group Presentation/ Report</p>	Week 15	