

CS-801 (IT Professionalism)

(Major – Core)

Course Description

Course Code number	CS-801	Course Title	IT Professionalism
Semester hours	3 hours	No. of Credit Units	3
Prerequisite	None	Course Coordinator	Dr. Thidar Win Assistant Lecturer

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
5. Quiz
6. Paper Report
7. Moodle Exam

Exam Assessment:

Assessment evaluation will be:

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

Grading System

UCSY follows a letter grade system comprising of grades A, A-, B+, B, B-, C+, C, C-, D and F. All marks obtained by students during the semester will be used in the grading process. For undergraduate students, a grade of “C” or better is required in this course because it is a prerequisite for other courses in the program. **The student who gets the grade point less than 2 must take Re-Exam.**

The grading scale for this course is:

Marks obtained	Letter Grade	Grade Point
>= 90	A	4
85 – 89	A-	3.75
80 – 84	B+	3.25
75 – 79	B	3
70 – 74	B-	2.75
65 – 69	C+	2.25
60 – 64	C	2
55 – 59	C-	1.75
50 – 54	D	1
0 – 49	F	0

Fail Grade and Re-Exam: C-, D, F (Grade point <2)

Class Attendance and Participation Policy:

- **Attendance**

Class attendance is **mandatory**. Most of the material you will learn will be covered in the lectures, so it is important that you not miss any of them. You are expected to show up on time for class, and stay for the whole lecture. Students are expected to attend each class, to complete any required preparatory work (including assigned reading) and to participate actively in lectures, discussions and exercises.

- Mobile phones **must** be silenced and put away for the entire lecture unless use is specified by the instructor. You may not make or receive calls on your cell phone, or send or receive text messages during lectures.
- You are responsible for all material sent as email. Ignorance of such material is no excuse. You are responsible for all materials presented in the lectures.
- Your conduct in class should be conducive towards a positive learning environment for your class mates as well as yourself.

- **Assignments, Quizzes, Moodle test and Labs**

We will take a short 3 to 5 quiz for every lecture and 30 points quiz moodle test after one or two chapters. Any assignment or quiz is simply missed, regardless of the reason why (e.g. illness, work, traffic, car trouble, computer problems, death, etc.), and earns a grade of zero. You are strongly encouraged to complete all assignments and attend all quizzes so that you can check that you understand the material and can throw out bad grades, or grades for which you had to miss an assignment or quiz for a valid reason. **Late submissions will not be accepted for any graded activity for any reason.**

- **There are no extra credit opportunities.**

Students may not do additional work nor resubmit any graded activity to raise a final grade.

- **Moodle test**

Moodle test will start after one or two chapters finished and the coordinator will announce the date for the test.

- **Exam**

The exam will be conducted on-campus using moodle system. The dates/times/locations will be posted on Board as soon as possible.

- **For this course, the following additional requirements are specified:**

All work submitted for a grade must have been prepared by the individual student. Students are expressly prohibited from sharing any work that has been or will be submitted for a grade, in progress or completed, for this course in any manner with a person other than the instructor and teaching assistant(s) assigned to this course). Specifically, students may not do the following, including but not limited to:

- Discuss questions, example problems, or example work with another person that leads to a similar solution to work submitted for a grade.
- Give to, show, or receive from another person (intentionally, or accidentally because the work was not protected) a partial, completed, or graded solution.
- Ask another person about the completion or correctness of an assignment.
- Post questions or a partial, completed, or graded solution electronically (e.g. a Web site).
- All work must be newly created by the individual student for this course. Any usage of work developed for another course, or for this course in a prior semester, is strictly prohibited without prior approval from the instructor.
- Posting or sharing course content (e.g. instructor provided lecture notes, assignment directions, assignment questions, or anything not created solely by the student), using any non-electronic or electronic medium (e.g. web site, FTP site, any location where it is accessible to someone other than the individual student, instructor and/or teaching assistant(s)) constitutes copyright infringement and is strictly prohibited without prior approval from the instructor.

Period: 45 Period of 15 weeks (Lecture 30 periods+ Lab-15 periods) (50 mins for 1 Period)

No.	Chapter	Page	Period	Detail Lecture Plan
	Chapter 1: An Overview of Ethics	1 to 35	9	Lectures + Quiz + Moodle + Reading Assignment
1.	What is Ethics? Definition of Ethics The important of Integrity The difference Between Morals, Ethics, and Laws	1-5	2	
2.	Ethics in the Business World Corporate Social Responsibility Why Fostering Corporate Social Responsibility and Good Business Ethics Is Important Improving Corporate	5-18	2	

	Ethics Creating an Ethical Work Environment			
3.	Including Ethical Considerations in Decision Making Develop a Problem Statement Identify Alternatives Evaluate and Choose an Alternative Implement the Decision Evaluate the Results	20-24	1	
4.	Ethics in Information Technology	24	1	
5.	Self-Assessment Questions Discussion Questions What Would You Do? Cases	27-29	1	
6	Quiz / Moodle Test/Group Presentation/ Report		2	
	Chapter 2: Ethics for IT Workers and IT Users	41 to 76	9	Lectures + Quiz + Moodle + Reading Assignment
7.	IT Professionals Are IT Workers Professionals? Professional Relationships That Must Be Managed Professional Codes of Ethics Professional Organizations Certification Government Licensing IT Professional Malpractice	41-60	3	
8.	IT Users Common Ethical Issues for IT Users Supporting the Ethical Practices of IT Users Compliance	61-64	3	
9.	Self-Assessment Questions Discussion Questions What Would You Do? Cases	64-76	1	
10.	Quiz / Moodle Test/Group Presentation/ Report		2	
	Chapter 3: Computer and Internet Crime	81 to 125	9	Lectures + Quiz + Moodle + Reading Assignment
11.	IT Security Incidents: A Major Concern Why Computer Incidents Are So	81-99	3	

University of Computer Studies, Yangon
B.C.Sc. / B.C.Tech. (Second Year)

	Prevalent Types of Exploits Types of Perpetrators Federal Laws for Prosecuting Computer Attacks			
12.	Implementing Trustworthy Computing Risk Assessment Establishing a Security Policy Educating Employees and Contract Workers Prevention Detection Response	100-110	3	
13.	Self-Assessment Questions Discussion Questions What Would You Do? Cases	115-125	1	
14.	Quiz / Moodle Test/Group Presentation/ Report		2	
	Chapter 4: Privacy	135 to 171	9	Lectures + Quiz + Moodle + Reading Assignment
15.	Privacy Protection and the Law Information Privacy Privacy Laws, Applications, and Court Rulings	131-135	3	
16.	Key Privacy and Anonymity Issues Data Breaches Electronic Discovery Consumer Profiling Workplace Monitoring Advanced Surveillance Technology	151-157	3	
17.	Self-Assessment Questions Discussion Questions What Would You Do? Cases		1	
18.	Quiz / Moodle Test/Group Presentation/ Report		2	
	Chapter 6: Intellectual Property	217 to 255	9	Lectures + Quiz + Moodle + Reading Assignment
19.	What Is Intellectual Property? Copyrights Copyright Term Eligible Works Fair Use Doctrine	217-225	2	

	<p>Software Copyright Protection</p> <p>The Prioritizing Resources and Organization for Intellectual Property (PRO-IP) Act of 2008</p> <p>General Agreement on Tariffs and Trade (GATT)</p> <p>The WTO and the WTO TRIPS Agreement (1994)</p> <p>The World Intellectual Property Organization (WIPO) Copyright Treaty (1996)</p> <p>The Digital Millennium Copyright Act (1998)</p>			
20.	<p>Patents 228 Leahy-Smith America Invents Act (2011)</p> <p>Software Patents</p> <p>Cross-Licensing Agreements</p> <p>Trade Secrets</p> <p>Trade Secret Laws</p> <p>Employees and Trade Secrets</p>	230-233	2	
21.	<p>Key Intellectual Property Issues</p> <p>Plagiarism</p> <p>Reverse Engineering Open Source Code</p> <p>Competitive Intelligence</p> <p>Trademark Infringement</p> <p>Cybersquatting</p>	234-243	2	
22.	<p>Self-Assessment Questions</p> <p>Discussion Questions</p> <p>What Would You Do?</p> <p>Cases</p>		1	
23.	<p>Quiz / Moodle Test/Group Presentation/ Report</p>		2	