



NATIONAL UNIVERSITY
of Computer & Emerging Sciences, Lahore

Department of Computer Science

CS4001 – Professional Practices In IT

Spring 2023

Course Instructor : Dr. Amjad Hussain

Email address: amjad.hussain@lhr.nu.edu.pk

TA Name (if any): TBD

Email address: TBD

Course Information

Program: BS

Credit Hours: 3

Type: Core

Pre-requisites (if any): Nil

Google Classroom code for Section BCS-7C is 2iopuxr, and for the Section BCS-7D is tfb66cl

Class Meeting Time: Mondays & Wednesdays BCS-7D 4:00-5:20 Lib, BCS-7C 5:30-6:50 Lib

Course Description/Objectives/Goals:

The course is designed to prepare students for adequately responding to issues faced during their professional life

Computing Profession, Computing Ethics, Philosophy of Ethics. The Structure of Organizations, Finance and Accounting, Anatomy of a Software House, Computer Contracts, Intellectual Property Rights, The Framework of Employee Relations Law and Changing Management Practices, Human Resource Management and IT, Health and Safety at Work, Software Liability, Liability and Practice, Computer Misuse and the Criminal Law, Regulation and Control of Personal Information. Overview of the British Computer Society Code of Conduct, IEEE Code of Ethics, ACM Code of Ethics and Professional Conduct, ACM/IEEE Software Engineering Code of Ethics and Professional Practice. Accountability and Auditing, Social Application of Ethics.

Course Textbooks

1. Professional Issues in Software Engineering by Frank Bott, Allison Coleman, Jack Eaton and Diane Rowland, CRC Press; 3rd Edition (2000). ISBN-10: 0748409513
2. Computer Ethics by Deborah G. Johnson, Pearson; 4th Edition (January 3, 2009). ISBN-10: 0131112414
3. A Gift of Fire: Social, Legal, and Ethical Issues for Computing and the Internet (3rd Edition) by Sara Baase, Prentice Hall; 3rd Edition (2008). ISBN-10: 0136008488
4. Applied Professional Ethics by Gregory R. Beabout, University Press of America (1993). ISBN-10: 0819193747.

Additional references and books related to the course:

- a) Professional Issues in Information Technology (Second Edition) – Frank Bott et al
- b) Ethics in Information Technology - George W. Reynolds
- c) The Art of Unix Programming
- d) The Pragmatic Programmer
- e) Peopleware 3rd Edition" by Timothy Lister and Tom DeMarco.
- f) "WINNING" by Jack Welch

Tentative Weekly Schedule

S#	Topic	Week(s)	¹ Readings	Project Deliverables
1	Introduction and appreciation to the course. Basics of Law. Profession, Computing Profession, Professional Bodies	1-2	Chapter 1 [a] Chapter 1 [1] Chapter 2 [a]	
2	Organization, Legal Status of organization, Structure and management of Organization Financing a startup-company, Finance and Accounting, Accountability and Auditing Investment Appraisal	2, 3, 4	Chapter 2[1] Chapter 3,4[2] Chapter 3[1] Chapter 5,6[a] Chapter8[a]	Assignment 1

¹ Numbers in square brackets correspond to books numbered in "Reference Material" section.

3	Anatomy of Software House	5	Chapter 4 [1]	Quiz 1
Mid -1 Exam				
4	Computer Contracts	6	Chapter 5 [1]	
5	Intellectual Property Rights	7	Chapter 6 [1] Chapter 6 [b]	
6	The Framework of Employee Relations Law and Changing Management Practices	8	Chapter 7 [1]	
7	Human Resource Management and IT	9	Chapter 8 [1] Chapter 10 [a]	
8	Health and Safety at Work	10	Chapter 9 [1]	
Mid-2 Exam				
Mid-1 & 2 exams will consume one week, so the next week will be Week-12 instead of 11				
9	Software Liability, Liability and Practice, Computer Misuse and the Criminal Law	12	Chapter 10 [1] Chapter 7 [b] Chapter 11 [1] Chapter 3 [b]	
10	Regulation and Control of Personal Information / Privacy Freedom of expression	13	Chapter 12 [1] Chapter 4 [b] Chapter 5 [5b]	
11	Computing Ethics, Philosophy of Ethics	14	Chapter 1[2] Chapter 2 [2]	
12	Time Management, Critical Thinking, Spotting Fake News, Logical Fallacies, Software version Control, SEO Tips etc	15		

(Tentative) Grading Criteria

Assignments/Project/Presentation/Quizzes/Class Activities: 30

Mid Exams, Final Exam: 15+15, 40

Course Policies

Announcements

Announcements related to different aspects of this course (e.g. lectures, quizzes, exams, etc.) will be posted on google classroom; students are expected to check it regularly.

Rescheduling of a class

Class cancellation (if and whenever required) and rescheduling of missed classes due to any reason will be announced by the academic office.

Attendance

All students are expected to attend all lectures from beginning to end. Partial or full absence from a lecture may hamper chances for securing good grades.

Exams

Exams will be closed-book and closed-notes. Syllabus for the Mid-1 exam will be the topics covered before Mid-1. Syllabus for the Mid-2 exam will be the topics covered between Mid-1 and Mid-2. Syllabus for the final exam will be all topics covered during the semester.

Quizzes

Quizzes may be announced or unannounced, preferably announced. A quiz will usually be about 5 – 10 minutes long and it may be given anytime during the lecture, preferably at the start of class, the late comers may miss the quiz.

Reading Material

Students are encouraged to finish the assigned readings BEFORE the lecture. This is likely to improve lecture comprehension and class participation.

Revision of Grades

Students can contest their grades on quizzes and project deliverables ONLY within a week of the release of grades. Other exams will be available for review according to university policies.

Unfair Means

Students are expected to demonstrate the highest degree of moral and ethical conduct. Any student caught cheating, copying, plagiarizing, or using any other unfair means will be strictly dealt-with in accordance with university policies.