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| Logo Fast | **NATIONAL UNIVERSITY**  **of Computer & Emerging Sciences, Lahore** |

Department of Computer Science

**CS4001 – Professional Practices In IT**

**Spring 2023**

**Instructor Name:** Muhammad Waqas MAnzoor **TA Name (if any):**

**Email address:** waqas.manzoor@nu.edu.pk **Email address:**

**Office Location/Number:** Opposite CS-8 **Office Location/Number:** NA

**Office Hours:** After Class  **Office Hours:** NA

**Course Information**

**Program:** BS **Credit Hours:** 3 **Type:** Core

**Pre-requisites (if any):**

**Course Website (if any):**

**Class Meeting Time:**

**Course Description/Objectives/Goals:**

The course is designed to prepare students for adequately responding to issues faced during the 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 Textbook**

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:**

1. Professional Issues in Information Technology (Second Edition) – Frank Bott et al
2. Ethics in Information Technology - George W. Reynolds
3. The Art of Unix Programming
4. The Pragmatic Programmer
5. “The Art of Unix Programming”
6. Peopleware 3rd Edition" by Timothy Lister and Tom DeMarco.
7. "WINNING" by Jack Welch

**Tentative Weekly Schedule**

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| **S#** | **Topic** | **Week(s)** | **[[1]](#footnote-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 |
| 3 | Anatomy of Software House | 5 | Chapter 4 [1] | Quiz 1 |
| 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] |  |
| 9 | Software Liability, Liability and Practice,  Computer Misuse and the Criminal Law | 11 | Chapter 10 [1]  Chapter 7 [b]  Chapter 11 [1]  Chapter 3 [b] |  |
| 10 | Regulation and Control of Personal Information / Privacy  Freedom of expression | 12 | Chapter 12 [1]  Chapter 4 [b]  Chapter 5 [b] |  |
| 11 | Computing Ethics,  Philosophy of Ethics | 13 | Chapter 1[2]  Chapter 2 [2] |  |
| 12 | Time Management, Critical Thinking, Spotting Fake News, Logical Fallacies, Software version Control, SEO Tips etc | 14 |  |  |
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**(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 regularly.

**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 final exam will be comprehensive.

**Office Hours**

Students are encouraged to take full advantage of the instructor's office hours. Any doubts regarding concepts covered in class or any questions regarding quizzes, projects, etc. may be clarified during office hours. In case a student is not able to make it during office hours, he/she may schedule an appointment with the instructor for another time slot.

**Quizzes**

Quizzes may be announced or unannounced. A quiz will usually be about 5 – 10 minutes long and it may be given anytime during the lecture.

**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. 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.

1. Numbers in square brackets correspond to books numbered in “Reference Material” section. [↑](#footnote-ref-1)