COMSATS University, Islamabad
Abbottabad Campus
Department of Computer Science
Syllabus SPRING 2022

I. Course code and Title

CSC110	**PROFESSIONAL PRACTICES FOR IT**

II. Course Prerequisites

Course Code	Title
None	

III. Instructor's Information

Full Name:	Dr. Rab Nawaz Jadoon
Email:	rabnawaz@cuiatd.edu.pk
Contact Number	0092 992 383591
Office Hours & Location	09:00 am– 5:00 pm except class timings and meetings Monday to Friday
Teaching Assistant (if any)	

IV. Course Composition

	Credit Hours	Weekly	Duration (hrs)	Contact Hours
Lectures	3	2	1.5	3.0
Laboratories	0	0	0	0

V. Course Description

Social Context: Social Implications of Computing and Networked Communication, Impact of Social Media on Individualism and Collectivism; Analytical Tools: Ethical Argumentation, Theories and Decision Making, Moral Values; Professional Ethics: Community Values, Nature of Professionalism, Self-assessment, Professional Certification (Such as ACM/IEEE-CS, SE, AITP), Accountability, Responsibility and Liability, Role of Computing Professional in Public Policy; Intellectual Property: Philosophical Foundations of Intellectual Property, Intellectual Property Rights, Intangible Digital Intellectual Rights, Digital Rights Management, Discrimination and Harassment, Forms of Professional Credentialing, Copyrights, Patents, Trade Secrets, Trademarks, Plagiarism, Open Source Movement; Privacy and Civil Liberties/Human Rights: Philosophical Foundations, Legal Foundations of Privacy Protection, Privacy Implications of Widespread Data Collection, Surveillance Systems and Cloud Computing, Technology based Solutions for Privacy Protection, Privacy Legislation in Areas of Practice, Civil Liberties/Human Rights, Cultural & Religious Differences, Freedom of Expression and its Limitations; Sustainability: How to be a Sustainable Practitioner, The global, Social and Environmental Impacts of Computer Use and Disposal; IEEE CS/ACM Code of Ethics and Professional Practice.

VI. Text book

1. Ethical and Social Issues in Information Age, Kizza J. M., 5th Edition (2013), Springer-Verlag

VII. Reference books & Material

1. Ethics in Information Technology, Reynolds, G., 5th Edition (2014), Cengage Course Technology.
2. A Gift of Fire, Social, Legal, and Ethical Issues for Computing Technology, Baase, S., 4th Edition (2013), Pearson Inc.
3. Ethics for the Information Age, Quinn, M.J., 5th Edition (2013), Pearson Education.

VIII. Course Assessment

Evaluation methods	Theory Weight (%)[T]	Lab Weight(%)[L]
Quizzes	15	15
Assignments	10	10
Sessional Exam / Midterm exam	25	25
Terminal Exam	50	50
Total	100	100
Total =T+L	**T=(T/100)**	**NA**

The course teacher may select any one of the above weightage as per the course credit hours.

IX. Course Outline and Contents

Lecture	CDF Unit #	Topics Covered	Textbook Section
1.	1	Introduction to ethics, Ethics in the business world	Reynolds: Ch1
2.	1	Including ethical considerations in decision making, Ethics in information technology	Reynolds: Ch1
3.	1	The development of computer crimes and the current social and ethical environment	Kizza: Ch1
4.	2	Personal and public morality	Kizza: Ch2
5.	2	Identifying assumptions and values of the law	Kizza: Ch2
6.	2	Looking at both conventional and natural law, and the intertwining of morality and the law	Kizza: Ch2
7.	3	Ethical theories	Kizza: Ch3
8.	3	Functional definition of ethics	Kizza: Ch3
9.	3	Reflections on computer ethics	Kizza: Ch3
10.	4	IEEE/ACM Code of ethics and professional practices	Kizza: Ch3
11.	4	Evolution of professions	Kizza: Ch4
12.	4	The making of an ethical professional: education and licensing	Kizza: Ch4
13.			
14.	4	Professional decision makings and ethics, professionalism and ethical responsibilities	Kizza: Ch4
15.	5	Foundations of Intellectual property	Kizza: Ch6
16.	5	Intellectual property crimes	Kizza: Ch6

17.	5	Protection of ownership rights, protecting computer software under the IP	Kizza: Ch6
18.	6	Software issues, causes of software failures	Kizza: Ch8
19.	6	Risk assessment and management	Kizza: Ch8
20.	6	Consumer protection, improving software quality	Kizza: Ch8
21.	7	Anonymity and the internet, advantages and disadvantages of the anonymity, legal view of anonymity	Kizza: Ch5
22.	7	Security, information security controls	Kizza: Ch5
23.		**Midterm Exam**	
24.	7	Privacy, ethical and legal framework for information	Kizza: Ch5
25.	8	Digital divide, obstacles to overcoming the digital divide	Kizza: Ch7
26.	8	ICT in the workplace; employee monitoring; workplace employee, health and monitoring	Kizza: Ch7
27.	9	History of computer crimes, type of computer system attacks, motives of computer crimes	Kizza: Ch9
28.	9	Costs and social consequences, computer crime prevention strategies	Kizza: Ch9
29.	9	Cyberspace and the concepts of telepresence and immersion, securing cyberspace, intellectual property rights in cyberspace	Kizza: Ch12
30.	9	Regulating and censoring cyberspace, the social value of cyberspace, privacy in cyberspace, global cyberethics	Kizza: Ch12

X. Course Learning Outcomes (CLO)and Program Learning Outcomes

Upon completion of the course, students will be able to:

CLO	Description	PLO
C1	Describe positive and negative ways in which computer technology alters modes of social interaction at the personal level.	g-1,g-2
C2	Evaluate ethical / social trade-offs in technical decisions.	e-3
C3	Evaluate the professional code of ethics from the ACM, the IEEE Computer Society, and other organizations.	e-1
C4	Identify contemporary examples of intangible digital intellectual property.	e-1
C5	Investigate the impact of technological solutions to privacy problems.	g-1

Program Learning Outcomes (PLOs)

PLO	Description
g-1	Analyze the local impact of computing on individuals
g-2	Analyze the global impact of computing on individuals, organizations and society
e-3	Demonstrate an understanding of social issues and responsibilities

e-1	Understand the professional and ethical and legal issues relevant

XI. Assessment Schedule - Tentative

Give your tentative assessment plan with submission due date.

S. No.	Artifact	Due Date	Remarks
1	Assignment 1	Week 2	
2	Quiz 1	Week 3	
3	Assignment 2	Week 4	
4	Sessional 1	Week 6	
5	Quiz 2	Week 8	
6	Assignment 3	Week 9	
7	Quiz 3	Week 10	
8	Sessional 2	Week 12	
9	Assignment 4	Week 14	
10	Quiz 4	Week 15	
11	Terminal Examination	Week 17	

Policy & Procedures

- **Attendance Policy:** Every student must attend 80% of the lectures delivered in this course and 80% of the practical/laboratory work prescribed for the respective courses. The students falling short of required percentage of attendance of lectures/seminars/practical/laboratory work, etc., shall not be allowed to appear in the terminal examination of this course and shall be treated as having failed this course.

- **Grading Policy:** The minimum pass marks for each course shall be 50%. Students obtaining less than 50% marks in any course shall be deemed to have failed in that course. The correspondence between letter grades, credit points, and percentage marks at CIIT shall be as follows:

Grade	A	A-	B+	B	B-	C+	C	C-	D	F
Marks	90 - 100	85 - 89	80 - 84	75 - 79	70 - 74	65 - 69	60 - 64	55 - 59	50 - 54	<50
Cr. Point	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	0.0

- **Missing Exam:** No makeup will be given for any exam.

- **Academic Integrity:** All CIIT policies regarding ethics apply to this course. The students are advised to discuss their grievances/problems with their counsellors or course instructor in a respectful manner.

- **Plagiarism Policy:** Plagiarism, copying and other anti-intellectual behaviour are prohibited by the university regulations. Violators may have to face serious consequences.

Dr. Rab Nawaz Jadoon
Assistant Professor
Department of Computer Sciences
COMSATS University, Islamabad, Abbottabad Campus
Email: rabnawaz@cuiatd.edu.pk
Page: https://jadoon956.wordpress.com/
Office: Z-354 (Z-Block/Engineering Block)