COMSATS University Islamabad

Course Plan Semester SPRING 2022
Introduction to Computing

Class: BCS & BSE

Course Code: CSC101 **By:** Zulfiqar Ali (Lecturer)

Total Credit Hours: 4	Lectures Credit Hours: 3	Lab. Credit Hours: 1
Total Contact Hours:	Lecture Contact Hours:	Lab. Contact Hours:

Office Hours: (Monday-Friday, 2 pm-4 pm daily)
Pre-Requisite: Nil

Course Objectives and Outcomes:

First Part Objectives:	To introduce the environment in which computer applications are practically used in respective fields with their theoretical background.
Second Part Objectives:	Provides students with an intensive survey of technologies used to support all aspects of computer applications.
Ultimate Objectives:	Understand the main software technologies and how these technologies interact. Have an understanding of how these technologies and web based applications are designed, built and implemented. Have knowledge of tools, technologies, concepts and processes that comprise the technical knowledge of computers and be able to solve problems about site design, hardware and software architecture, and document architecture.

Note: The contents may be revised, if deemed necessary after the first Sessional test.

Recommended Books:

1. Introduction to Computers, 7th or 8th Edition.
Author: Peter Norton
Publisher: McGraw-Hill Technology Education

2. Computers: Tools for an Information Age, 8th Edition.
Authors: H.L. Capron
Publisher: Prentice Hall.
ISBN: 0-201-61211-9

Grades Distribution:

- Session Exams: 25%
- Homework and quizzes: 15%
- Assignments/Project: 10%
- Final Exam: 50%

Course Outline and Contents – Weekly Details

Week	Lecture	Topic Covered	Date / Time Delivered
Week -1	Lecture # 1	*Introducing Computer Systems*	1st week of Sept
	Lab #1	**Microsoft Word 2010**	-do-
	Lecture # 2	*Looking inside the computer System*	-do-
	Lab #2	**Microsoft Word 2010**	-do-
Week -2	Lecture # 3	*The Internet and World Wide Web*	2nd week of Sept
	Lab #3	**Microsoft Excel 2010**	-do-
	Lecture # 4	*Email and other Internet services.*	-do-
	Lab #4	**Microsoft Excel 2010**	-do-
Week - 3	Lecture # 5	*Using Keyboard and Mouse*	3rd week of Sept
	Lab #5	**Microsoft Excel 2010**	-do-
	Lecture # 6	*Inputting data in other way*	-do-
	Lab #6	**Microsoft Excel 2010**	-do-
Week - 4	Lecture # 7	*Video and Sound*	4th week of Sept
	Lab #7	**Microsoft OneNote 2010**	-do-
	Lecture # 8	*Printing*	-do-
	Lab #8	**Microsoft OneNote 2010**	-do-
Week - 5	Lecture # 9	*Primary Storage* RAM, ROM, PROM, EPROM, EEPROM	1st week of Oct
	Lab #9	**Microsoft office Publisher 2010**	-do-
	Lecture # 10	*Cache, Registers, Modern CPU's*	-do-
	Lab #10	**Microsoft office Publisher 2010**	-do-
Week - 6	Lecture # 11	*Secordary Storage, Types of Storage Devices*	2nd week of Oct
	Lab #11	**Microsoft office PowerPoint 2010**	-do-
	Lecture # 12	*Measuring and Improving Drive Performance*	-do-
	Lab #12	**Microsoft office PowerPoint 2010**	-do-
Week - 7	Lecture # 13	*Operating System Basics*	-do-
	Lab #13	**Microsoft office PowerPoint 2010**	-do-
	Lecture # 14	*Fuctions of operating systems*	-do-
	Lab #14	**Microsoft office Access 2010**	-do-
Week - 8	Lecture # 15	*Number systems*	4th week of Oct
	Lab #15	**Microsoft office Access 2010**	-do-

	Lecture # 16	*Conversions, Logical Gates*	-do-
	Lab #16	**Microsoft office Access 2010**	-do-
Week - 9	Lecture # 17	*Some other important gates*	1st week of Nov
	Lab #17	**Microsoft office Access 2010**	-do-
	Lecture # 18	*Network Basics, Data Communications*	-do-
	Lab #18	**Microsoft office Project Management**	-do-
Week - 10	Lecture # 19	*Types of Network*	2nd week of Nov
	Lab #19	**Microsoft office Project Management**	-do-
	Lecture # 20	*Network Topologies*	-do-
	Lab #20	**Microsoft office Project Management**	-do-
Week -11	Lecture # 21	*OSI Model*	3rd week of Nov
	Lab #21	**Microsoft office Project Management**	-do-
	Lecture # 22	*Concept of Straight cable and Cross cable*	-do-
	Lab #22	**Microsoft office Project Management**	-do-
Week - 12	Lecture # 23	*Database Management System*	4th week of Nov
	Lab #23	**Microsoft office Project Management**	-do-
	Lecture # 24	*Survey of Database Systems*	-do-
	Lab #24	**Microsoft office Project Management**	-do-
Week - 13	Lecture # 25	*Basics of Information Systems*	1st week of Dec
	Lab #25	**Microsoft office Outlook 2010**	-do-
	Lecture # 26	*Building Information Systems*	-do-
	Lab #26	**Microsoft office Outlook 2010**	-do-
Week -14	Lecture # 27	*Types of Databases*	2nd week of Dec
	Lab #27	**C Language Introduction**	-do-
	Lecture # 28	*Disadvantages of conventional file processing system*	-do-
	Lab #28	**C Language Introduction**	-do-
Week-15	Lecture # 29	*Database users*	3rd week of Dec
	Lab #29	**C Language Introduction**	-do-
	Lecture # 30	*Taking Protective measures*	-do-
	Lab #30	**Revision etc**	-do-
Week-16	Lecture # 31	*Telecommunication Networks Applications-I*	4th week of Dec
	Lab #31	**Revision etc**	-do-

	Lecture # 32	*Telecommunication Networks Applications-II*	-do-
	Lab #32	**Revision etc**	-do-