

COMSATS University Islamabad

Course Plan Semester SPRING 2022 Introduction to Computing

Class: BCS & BSE

Course Code: CSC101 By: Zulfiqar Ali (Lecturer)

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| 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.

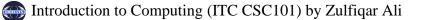
Author: Peter Norton Publisher: McGraw-Hill Technology Education

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%



| | | ontents – Weekly Details | |
|----------|--------------|---|--------------------------|
| Week | Lecture | Topic Covered | Date / Time Delivered |
| Week -1 | Lecture # 1 | Introducing Computer Systems | 1 st 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 | 2 nd 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 | 3 rd 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 | 4 th 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 | 1 st week |
| | | RAM, ROM, PROM, EPROM, EEPROM | 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 | 2 nd 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 | 4 th week |
| | | | of Oct |
| | Lab #15 | Microsoft office Access 2010 | -do- |

Course Outline and Contents – Weekly Details



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| | Lecture # 16 | Conversions, Logical Gates | -do- |
| | Lab #16 | Microsoft office Access 2010 | -do- |
| Week - 9 | Lecture # 17 | Some other important gates | 1 st 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 | 2 nd 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 | 3 rd 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 | 4 th 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 | 1 st 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 | 2 nd 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 | 3 rd 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 | 4 th week |
| | | | of Dec |
| | Lab #31 | Revision etc | -do- |
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| Lecture # 32 | Telecommunication Networks Applications-II | -do- |
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| Lab #32 | Revision etc | -do- |
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