

Govt. Islamia Graduate College Kasur

First Year Comp. Sci. Lesson Plan 2021-2022

1st Week (7 Oct-14 Oct)

Chapter 1: Introduction of Basics of IT

- ❖ Hardware Vs Software
- ❖ Software Classifications
- ❖ Input Vs Output Devices
- ❖ Input Devices (Keyboard)
- ❖ Input Devices (Pointing Devices)

2nd Week (15 Oct- 22 Oct)

- ❖ Input Devices (Pointing Devices)
- ❖ Input Devices (Scanning Devices)
- ❖ Video Display Adapters
- ❖ Output Devices (Display Screens Types)
- ❖ Output Devices (Printers and Types (Impact Printers))

3rd Week (23 Oct- 30 Oct)

- ❖ Output Devices (Printers and Types (Non-Impact Printers))
- ❖ Output Devices (Plotters and Sounds)
- ❖ Components of Systems
- ❖ System Development Life Cycle (over view and 2 steps)
- ❖ System Development Life Cycle (next 2 steps)

4th Week (31 Oct- 6 Nov)

- ❖ System Development Life Cycle (Complete)
- ❖ Chap 1: Summary and Exercise
- ❖ Test No:1

Chapter 2: Information Networks (overview)

- ❖ History of Internet
- ❖ use of internet

5th Week (7 Nov - 14 Nov)

- ❖ Networks and its Components
- ❖ Networks Protocols
- ❖ Peer to Peer and Hybrid
- ❖ Networks Standards and Topologies(overview)
- ❖ Topologies Types (Bus)

6th Week (15 Nov - 22 Nov)

- ❖ Topologies Types (Ring)
- ❖ Topologies Types (Star)
- ❖ Topologies Types (Tree)
- ❖ Topologies Types (Mesh)
- ❖ OSI Model First 3 Layers

7th Week (23 Nov - 30 Nov)

- ❖ OSI Model Remaining Layers
- ❖ Chap 2: Summary and Exercise
- ❖ Test No:2

Chapter 3: Data Communication (overview)

- ❖ Components of Data Communication

8th Week (1 Dec -7 Dec)

- ❖ Signals and types
- ❖ Types of DATA
- ❖ Representations of Data
- ❖ Modes of Transmission (Simplex)
- ❖ Modes of Transmission (Half and Full Duplex)

9th Week (8 Dec -15 Dec)

- ❖ Types of data Transmission
- ❖ Serial Vs Parallel Communication
- ❖ Asynchronous and Synchronous
- ❖ Bandwidth
- ❖ Communications Media (Wired)

10th Week (16 Dec - 23 Dec)

- ❖ Twisted Pair

- ❖ Coaxial Cables
- ❖ Fiber Optics
- ❖ Communications Media (Wireless)
- ❖ Micro Waves

11th Week (1 Jan - 7 Jan)

- ❖ Communication Stellates
- ❖ Mobile Communication
- ❖ Modem and its working
- ❖ Types of Modem
- ❖ Chap 3: Summary and Exercise
- ❖ Test No:3

12th Week (8 Jan – 15 Jan)

Chapter 4: Use of Computer (Overview)

- ❖ Use of Computer in Business
- ❖ Office Automation
- ❖ E-Commerce
- ❖ Use of Computer in Industry

13th Week (16 Jan – 23 Jan)

- ❖ Use of Computer in Medical
- ❖ Use of Computer in Education
- ❖ Use of Computer in Home
- ❖ Characteristics of Computer
- ❖ Chap 4: Summary and Exercise
- ❖ Test No:4

14th Week (24 Jan -31 Jan)

Chapter 5: Computer Architecture (Overview)

- ❖ Components of Computer (CPU)
- ❖ Components of Computer (RAM)
- ❖ Components of Computer (ROM)
- ❖ Bus Interconnection
- ❖ I/O Unit

15th Week (1 Feb -7 Feb)

- ❖ CPU Registers (General Purpose)
- ❖ CPU Registers (Special Purpose)
- ❖ CPU Registers (Segment)
- ❖ Computer Operations and instruction Format
- ❖ Types of instruction Format

16th Week (8 Feb -15 Feb)

- ❖ CPU Instructions and types
- ❖ Machine Cycle or instruction Cycle
- ❖ Operating Systems (Overview)
- ❖ Computer Languages
- ❖ Translators

17th Week (16 Feb -23 Feb)

- ❖ Chap 5: Summary and Exercise
- ❖ Test No: 5

Chapter 6: Security, Copyright and Law (Overview)

- ❖ Data Security
- ❖ Security Violations
- ❖ Security Threats

18th Week (24 Feb -3 March)

- ❖ Viruses and Causes and Types of Viruses
- ❖ Data Security
- ❖ Security Violations
- ❖ Security Threats

19th Week (4 March - 11 March)

- ❖ Data Protection
- ❖ Privacy Acts
- ❖ Copyright and Legislation
- ❖ Chap 6: Summary and Exercise
- ❖ Test NO: 6

20th Week (12 March - 19 March)

Chapter 7: Windows Operating System (Overview)

- ❖ GUI Vs CL Windows OS
- ❖ Object of Windows OS
- ❖ Features of Windows OS
- ❖ Disk Management

21th Week (20 March - 27 March)

- ❖ File Management
- ❖ Chap 7: Summary and Exercise
- ❖ Test No:7

Chapter 8: Word Processing (Overview)

- ❖ Features of Word Processor

22th Week (28 March – 3 April)

- ❖ Interface of Word Processor
- ❖ Working with Word Processor
- ❖ Formatting of text
- ❖ Chap 8: Summary and Exercise
- ❖ Test NO: 8

23th Week (4 April- 11 April)

Chapter 9: Spreadsheet Software (Overview)

- ❖ Features of Spreadsheet
- ❖ Interface of Spreadsheet
- ❖ Basics of Worksheet
- ❖ Working with Formulas

24th Week (12 April- 19 April)

- ❖ Cell referencing
- ❖ Functions in Spreadsheet
- ❖ Formatting
- ❖ Chap 9: Summary and Exercise
- ❖ Test NO: 9

25th Week (20 April- 27 April)

Chapter 10: Fundamental of Internet (Overview)

Addressing Schemes
Web Browsing
Email
News Groups
Chap 10: Summary and Exercise
Test NO: 10

Last Week (28 April- 30 April)

Paper Pattern Discussion