# **Basic Computer Syllabus**

## **Syllabus Outline**

		Theory	Practical	Total
		(hours)	(hours)	(hours)
1	Fundamentals of computer			
2	Operating computer using GUI based operating			
	system			
3	Microsoft Word			
4	Microsoft Excel			
5	Microsoft PowerPoint			
6	Basic Computer Repairing (Hardware)			
7	Communicating using the internet			
8	WWW and web browsers			
9	Online Security and Privacy			
10	Programming basics			
11	Website Creation basics			
12	Smart phone uses			
13	Linux and Dos commands			

# **Detailed Syllabus**

## 1. Fundamentals of computer

- 1.0 Introduction
- 1.1 Basic Applications of Computer
- 1.2 Components of Computer System
  - 1.2.1 Block Diagram
  - 1.2.2 Central Processing Unit
  - 1.2.3 Input Output devices
  - 1.2.3.1 Keyboard shortcuts
  - 1.2.4 Computer Memory
- 1.3 Concept of Hardware and Software
  - 1.3.1 Hardware
  - 1.3.2 Software
  - 1.3.2.1 Application Software
  - 1.3.2.2 Systems software
- 1.4 Computer languages

# 2. Operating Computer Using GUI Based Operating System

- 2.0 Operating System Introduction
- 2.1 Basics of popular operating system (LINUX, WINDOWS)
- 2.2 The User Interface
  - 2.2.1 Task Bar
  - 2.2.2 Icons
  - 2.2.3 Menu

- 2.2.4 Running an Application
- 2.3 Operating System Simple Setting
  - 2.3.1 Changing System Date and Time
  - 2.3.2 Changing Display Properties
  - 2.3.3 To Add or Remove a Windows Component
  - 2.3.4 Changing Mouse Properties
  - 2.3.5 Adding and removing Printers
- 2.4 File and Directory Management
  - 2.4.1 Creating and renaming of files and directories
- 2.5 Common utilities

#### 3. Microsoft Word

- 3.0 Introduction
  - 3.0.1 Common Buttons, Tabs and Ribbons
  - 3.1.2 The Flashing Line
- 3.1 Document Navigation Tips
  - 3.1.1 Using the Slider
  - 3.1.2 Keyboard Navigation Tips
  - 3.1.3 Using Browse Objects Tools
  - 3.1.4 Selecting Text Options
- 3.2 Manipulating Text
  - 3.2.1 Page Layout
  - 3.2.2 Cut, Copy, Paste, Move
  - 3.2.3 Find and Replace
- 3.3 Formatting Characters
  - 3.3.1 Changing Fonts
  - 3.3.2 Typical Text Format Options
  - 3.3.3 Bullet and Numbered Lists
  - 3.3.4 Other formatting tools
- 3.4 Formatting Paragraphs
  - 3.4.1 Line Spacing
  - 3.4.2 Quick Styles
  - 3.4.3 Paragraph Marks
- 3.5 Themes and Templates
  - 3.5.1 Applying Themes
  - 3.5.2 Opening Existing Templates
  - 3.5.3 Creating Templates
  - 3.5.3 Working with Existing Content
- 3.6 Quick Parts
  - 3.6.1 Quick Parts
  - 3.6.2 Creating Quick Parts
  - 3.6.3 Quick Parts Inserting Fields
  - 3.6.4 Quick Parts Inserting Images
- 3.7 Preparing Documents for Printing
  - 3.7.1 Spelling and Grammar Check
  - 3.7.2 Saving a Document
  - 3.7.3 Printing and Preview Options

2.6	
3.8	Organizing Content
	3.8.1 Creating Lists
	3.8.2 Creating and Formatting Tables
	3.8.3 Converting Text to Tables
2.0	3.8.4 Table Borders and Shading
3.9	Tabs, Columns, and Charts
	3.9.1 Creating Columns
	3.9.2 Creating Tabular Lists
	3.9.3 Creating Charts
3.10	Links, Headers, and Footers
	3.10.1 Creating Web Links
	3.10.2 Creating Document Location Links
	3.10.3 Email Links
	3.10.4 Headers and Footers
3.11	References
	3.11.1 Bookmarks
	3.11.2 Captions
	3.11.3 Footnotes
	3.11.4 Citations
	3.11.5 Reference Styles for Research
	3.11.6 Research Options
	3.11.7 Creating Indexes
	3.11.8 Bibliographies
	3.11.9 Cross Reference Bookmarks
	3.11.1 Cross Reference Page Numbers
3.12	Mail Merge
	3.12.1 Mail Merge for Letters
	3.12.2 Mail Merge for Envelopes
	3.12.3 Mail Merge for Labels
3.13	Visual Content
	3.13.1 Character Spacing
	3.13.2 Inserting Shapes
	3.13.3 Inserting Images
	3.13.4 Using Word Art
	3.13.5 Using Pull Quotes
	3.13.6 Using Text Boxes
	3.13.7 Sorting Text
	3.13.8 Using Smart Art
3.14	_
0.1.	3.14.1 Document Views
	3.14.2 Split Screen View
	3.14.3 Tracking Changes
	3.14.4 Collaboration Options
	3.14.5 Combining and Approving Changes
	3.14.6 Using Comments
2 1 5	_
3.15	5
	3.15.1 Compatibility Checker
	3.15.2 Previous Word Versions Compatibility
	3.15.3 Digital Signatures

#### 3.15.4 Restricting Permissions

#### 4. Microsoft Excel

4.1	Introd	luction
4. I	IIILIOU	luction

- 4.2 Entering, Editing and Formatting Data
- 4.3 Formatting Numbers
- 4.4 Managing Worksheets
- 4.5 Modifying Rows and Columns
- 4.6 Changing Views
- 4.7 AutoFill and Custom Lists
- 4.8 Conditional Formatting
- 4.9 Tables
- 4.10 Data Tools
- 4.11 Referencing Formulas
- 4.12 Ranges and Dates
- 4.13 Lookups
- 4.14 Conditional Logic
- 4.15 Text Formulas
- 4.16 Introduction to Charts
- 4.17 Formatting Charts
- 4.18 Adding Graphics to Spreadsheets
- 4.19 Outline, Sort, Filter, and Subtotal
- 4.20 PivotTables
- 4.21 Protecting Data
- 4.22 Collaboration
- 4.23 Printing
- 4.24 Outline, Sort, Filter, and Subtotal
- 4.24 Saving a Workbook
- 4.24 Macros

#### 5. Microsoft PowerPoint

- 5.1 Introduction
- 5.2 Applying Themes and Layouts to Slides
- 5.3 Working with Objects
- 5.4 Entering, Editing, and Formatting Text
- 5.5 Outline View and Proofing Presentations
- 5.6 Adding and Reading Notes
- 5.7 Inserting Pictures, Graphics, Shapes, and Other Things
- 5.8 Charts
- 5.9 Adding Sound and Video
- 5.10 Adding Transitions and Animation
- 5.11 Working with Master Slides
- 5.12 Working with Smart Art
- 5.13 Printing, Sharing, and Exporting Slides

## 6. Basic Computer Repairing (Hardware)

- 6.1 Computer Hardware Overview
- 6.2 Motherboard: Types, Block Diagram, Identification of Ports, Chip, Slots, Connector, Section etc.
- 6.3 CPU: CPU Socket details, Types of CPU, Identification, and Basic Terminology of CPU
- 6.4 RAM: Types of RAM, Identification of RAM, RAM Operating Voltage
- 6.5 SMPS: Concept of Current, SMPS pin details, SMPS Voltage, Testing of SMPS, How to use multimeter, Testing of Power Cable.
- 6.6 Hard disk: Hard disk Types, Identification of Hard disk, Jumper Setting, Warranty, Measuring concept etc.
- 6.7 CD/DVD Drive: Assembling/Dissembling of CD/DVD Drive, Types of CD/DVD Drive, Repairing of CD/DVD Drive, Jumper Settings Etc.
- 6.8 UPS: Types, How UPS work, Measurement, Testing of UPS, Battery Concept.
- 6.9 Keyboard and Mouse: Types, Identification, Repairing of Keyboard and Mouse.
- 6.10 Monitor
- 6.11 Printer

#### 7. Communication using the internet

- 7.1 Basic of Computer Networks
  - 7.1.1 Local Area Network (LAN)
  - 7.1.2 Wide Area Network (WAN)
- 7.2 Internet
  - 7.2.1 Concept of Internet
  - 7.2.2 Applications of Internet
  - 7.2.3 Connecting to the Internet
  - 7.2.4 Troubleshooting

#### 8. WWW and web browsers

- 8.1 World Wide Web (WWW)
- 8.2 Web Browsing Software
- 8.3 Search Engines
- 8.4 Understanding URL
- 8.5 Surfing the web

## 9. Online Security and Privacy

- 9.1 Threats to computer
- 9.2 Virus and its types
- 9.3 Anti-Virus software and Examples
- 9.4 Firewall and its use
- 9.5 Hackers and Crackers
- 9.6 Cyber-crime and Computer ethics
- 9.7 Cyber law and Importance
- 9.8 Backup and Restore

# 10. Programming basics

- 10.1 Algorithm
- 10.2 Flowchart

## 11. Website Creation basics

11.1 HTML

# 12. Smart phone uses

- 12.1 Introduction
- 12.2 Popular Uses
- 12.3 Important Features
- 12.4 Designs and Trends
- 12.5 iPhone Vs Android

## 13. Linux and Dos commands