**SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL**

**LESSON-PLAN**

**Class: B.Sc (CS) 1st year Semester: 1st**

**Subject: Comp. Fund.(paper 1.1) Session: 2020-21**

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| **Lecture Number** | **Topic** |
| **1** | Historical evolution of computers |
| **2** | Classification of computers |
| **3** | Block Diagram along its components and characteristics |
| **4** | Usefulness of Computers |
| **5** | Human being Vs computer |
| **6** | Computer as a tool |
| **7** | Applications of computers |
| **8** | Introduction to Number System |
| **9** | Definition of Number system |
| **10** | Necessity of binary number system |
| **11** | Binary, decimal, octal and hexadecimal number system |
| **12** | Inter-conversion of numbers |
| **13** | Representation of integers |
| **14** | Fixed and floating points |
| **15** | BCD codes |
| **16** | Error detecting and correcting codes |
| **17** | Character Representation-ASCII, EBCDIC, Binary arithmetic |
| **18** | Input / Output Devices |
| **19** | Keyboards, mouse |
| **20** | Joysticks, trackballs |

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| **21** | Digitizer, scanners |
| **22** | Voice-recognition, optical-recognition |
| **23** | Terminals, point-of-sale terminals |
| **24** | Machine-vision systems |
| **25** | Introduction to Hard-copy devices |
| **26** | Impact printers - DMPs, Daisy-wheel printers |
| **27** | Line-printers. Non-impact printers - Inkjet, Laser |
| **28** | Thermal, LED; Plotters |
| **29** | Soft-copy devices: Monitors |
| **30** | Video-standards (VGA and SVGA) |
| **31** | Introduction to Memory & Mass Storage Devices |
| **32** | Characteristics of memory systems, types of memory |
| **33** | RAM, ROM |
| **34** | Magnetic disks - floppy disk, hard-disk |
| **35** | Optical disks - CD, CD-I, CD-ROM |
| **36** | Magnetic tapes; Concepts of Virtual and Cache memory |
| **37** | Introduction to Software Concepts |
| **38** | Introduction |
| **39** | types of software - System & Application software |
| **40** | Language translators - Compiler, Interpreter, Assembler |
| **41** | Operating system - Characteristics |
| **42** | Bootstrapping, types of operating |
| **43** | Operating system as a resource manager |

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| **44** | BIOS; System utilities - Editor, Loader, Linker, File Manager |
| **45** | Concept of GUI, GUI standards |
| **46** | Introduction to Algorithm & Flowcharts |
| **47** | Advantages & Disadvantages |
| **48** | Introduction to MS-OFFICE:MS-Word |
| **49** | Creating a document, font operation |
| **50** | Bullet and numbering, find & replace |
| **51** | Hyper linking, mathematical operation |
| **52** | Create table and flow chart, Macro |
| **53** | Mail merge, Correcting grammar |
| **54** | Protect files, difference between doc and docx |
| **55** | Introduction to MS-PowerPoint |
| **56** | Creating single and multiple slide, Animation |
| **57** | Manual and automatic slide show, hyper linking |
| **58** | DFD, shape and style |
| **59** | Introduction to MS-Excel |
| **60** | Create sheet and rename sheet, table and operation |

**SHWETA JAIN**

**(Asst Prof. in CS)**