**Guidelines B.A.(Prog) DSC1**

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|  **Unit**  | **Syllabus**  | **References**  |
| **I**  | **Introduction to Computers:** Characteristics of computers, Uses of computers, Components of a digital computer, Types of computers.  | [3] 1.3, 1.6, 1.7, 1.8  |
| **II**  | **Number Systems:** Binary, Octal and Hexadecimal number systems, Binary Coded Decimals (BCD), Binary Coded Octals (BCO), Binary Coded Hexadecimals (BCH), 1's complement, 2's complement, conversion from one number system to another, binary arithmetic (addition, subtraction), binary subtraction using 2’s complement.  | [2] Ch. 3 Pg 23-25, Ch. 5 Pg 51-57  |
| **III**  | **Input and Output Devices:** Keyboard, mouse, touch screen, joystick, scanners, web camera, MICR, OCR, OMR, bar-code reader, monitors, printers, plotters. **Memory:** Primary, secondary, auxiliary memory, RAM, ROM, cache memory, magnetic tape, magnetic disks, hard disk drives, optical disks, CD-R, DVD, flash drives, blue ray disc.  | [2] Ch. 9 Pg 156-165, 167-171 [2] Ch. 7 116-118 Ch. 8 123-126, 130-132, 135-136, 138-139, 141-143, 145(including adv. & disadv.)  |
| **IV**  | **Computer Organization and Architecture:** C.P.U., registers, system bus, main memory unit, processors, motherboard, ports and interfaces, expansion cards, ribbon cables, SMPS, memory chips.  | [3] 2.1, 2.2, 2.3, 2.8 (excluding 2.8.1 to 2.8.3)  |
| **V**  | **Software:** System software, application software, operating system and its functions and types.  | [2] Ch. 10 Pg 180-183 (till application software)  |
| **VI**  | **Overview of Emerging Technologies:** Bluetooth, cloud computing, big data, data mining, mobile computing.  | [1] Ch. 17.4 (excluding 17.4.1- 17.4.2), 17.4.3  |

**Curriculum plan ( OddSemester 2019-20)**

**Teacher Name: Reena Jain**

**Paper name:**

**Class type:**

**Paper shared with:**

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| **Unit to be taken** | **Allocated lectures** | **Month wise schedule to be followed** | **Tests/Assignments/****Revision/Presentations etc** |
| **Number Systems:** Introduction ofBinary, Octal and Hexadecimal number systems  |   | July 2019 |  |
| Binary Coded Decimals (BCD), Binary Coded Octals (BCO), Binary Coded Hexadecimals (BCH), 1's complement, 2's complement, conversion from one number system to another, binary arithmetic (addition, subtraction), binary subtraction using 2’s complement. |  | Aug 2019 | Test in 2nd week of AugustAssignment in 4th week of August |
| C.P.U., registers, system bus, main memory unit, processors, motherboard, ports and interfaces |  | Sept 2019 | Test in 2nd week of September for unit 2 |
| expansion cards, ribbon cables, SMPS, memory chips. |  | October 2019 | Mid Sem Exam |
| System software, application software |  | October 2019 | Assignment in 4th week  |
| operating system and its functions and types. |  | November 2019 | Revision of entire syllabus |
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