**Name of the Teacher:** Magandeep Kaur **Class:** B.Sc I-SEM-I

**Subject:** Digital Electronics-I  **Paper:** II

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Unit1:** Number System, Binary Arithmetic Operations. | Multiple Choice Question Test |
|  | **01-31 Aug 2017** | **Unit1:**1’s and 2’s complement representation and its arithmetic. Binary codes and its types.  **Unit2:** Logic gates. | Group discussion on binary codes |
|  | **01-30 Sept 2017** | **Unit2:** Boolean Algebra, Simplification using K-Map, Don’t care implementation of SOP & POS using NAND and NOR Gate. | Solved Problems on Boolean Algebra and K-Map |
|  | **01-31 Oct 2017** | **Unit3:** Bipolar Logic Families, Unipolar Families, Characteristics of Digital IC’s, RTL, DTL, DCTL. | ------- |
|  | **01-13 Nov 2017** | **Unit4:** HTL, TTL, ECL,MOS, CMOS | Group discussion |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | Self complementing codes, parity bit, universal gates, De-Morgan’s law. |
| **Assignment 2** | Characteristics of Digital IC’s, MOS, CMOS |
| **Class Test** | **Test 1:** Number system and arithmetic’s.  **Test 2:** Boolean algebra, SOP and POS forms, K-Map.  **Test 3:** Bipolar families  **Test 4:** Unipolar families |