**Name of the Teacher:** Prof P. Mathur **Class:** B.Sc I-SEM-I

**Subject:** Electronics Devices and Circuits-I  **Paper:** I

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | **Unit 1:** Introduction to Semiconductors. | Group discussion |
|  | **01-31 Aug 2017** | **Unit 1:** PN Junction Diode, Diode and its applications.  **Unit 2:** Rectifiers. | Group discussion |
|  | **01-30 Sept 2017** | **Unit 2:** Filters and Voltage Multiplier Circuits.  **Unit 3:** Introduction to Transistors. | ------ |
|  | **01-31 Oct 2017** | **Unit 3:** Transistor and its Characteristics, Transistor as an amplifier. | Group discussion |
|  | **01-13 Nov 2017** | **Unit4:** Eber-Moll model, Hybrid model, Emitter follower, Comparison of transistor configuration, Miller thereom. | ----- |

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

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| **Assignment 1** | Comparison of Avalanche and Zener breakdown |
| **Assignment 2** | Positive and Negative Reference shunt clipping |
| **Assignment 3** | Transistor current components for NPN transistor |
| **Assignment 4** | Bridge FWR |
| **Assignment 5** | Parameter of FWR |
| **Assignment 6** | Transistor Amplifier Comparison |
| **Class Test** | **Test 1:** PN junction diode  **Test 2:** Filters  **Test 3:** Transistor & its types |