

**Bangladesh Sweden Polytechnic Institute, Kaptai
Electrical Technology.**

Semester Plan

Teacher-Mohammad Mohaiminul Islam Sabbir.

Subject Code: - 26811

Subject Name: - Basic Electronics.

**Department :- Electrical, Mechanical, Civil(Wood), Computer,
Construction**

T P C
2 3 3

Week No	Theory contents/ General Objectives	Resources Needed	Practical contents/ General Objectives	Resources needed
1	<p>1. Understand the Concept of soldering and Color Code.</p> <p align="center">S.O. (1.1 – 1.7)</p> <p>2. Understand the Concept of Semiconductor.</p> <p align="center">S.O. (2.1 -2.8)</p>	<u>WHITE BOARD & MARKER</u>	Show skill in identifying the electronic components.	Job Sheet,
2	<p>3. Understand the Concept of P-N Junction Diode.</p> <p align="center">S.O. (3.1 - 3.9)</p>	<u>WHITE BOARD & MARKER</u> * Class Test-1	Show skill in electrical measurement.	Job Sheet,
3	<p>4. Understand the DC power supplies.</p> <p align="center">S.O. (4.1 - 4.8)</p>	<u>WHITE BOARD & MARKER</u>	Show skill for determining the values of different resistors and capacitors with the help of color code.	Job Sheet,
4	<p>5. Understand the Concepts of Special Diode.</p>	<u>WHITE BOARD & MARKER</u>	Show skill in performing soldering.	Job Sheet,

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	S.O. (5.1 - 5.6)	<u>*Quiz Test-1</u>		
5	6. Understand the construction and operation of Bipolar Junction Transistor (BJT) S.O. (6.1 - 6.9)	<u>WHITE BOARD & MARKER</u>	Show skill in soldering & disordering of electronic components and wires to the other components and circuit boards.	Job Sheet,
6	7. Understand the concept of BJT Amplifier S.O. (7.1 - 7.6)	<u>WHITE BOARD & MARKER</u> * Class Test-2	Show skill in checking the semi-conductor diode.	Job Sheet,
7	8. Understand the main feature of digital electronics S.O. (8.1 - 8.5)	<u>WHITE BOARD & MARKER</u>	Show skill in sketching forward and reverse characteristics curves of a semiconductor diode.	Job Sheet,
8	9. Understand the Electronic measuring and testing equipment S.O. (9.1 - 9.5)	<u>WHITE BOARD & MARKER</u> *Quiz Test-2	Show skill in sketching waves of half wave rectifier circuit.	Job Sheet,
9	Review	<u>WHITE BOARD & MARKER</u>	Show skill in sketching waves of full wave center tapped rectifier circuit.	
10	Review	<u>WHITE BOARD & MARKER</u>	Show skill in constructing full wave bridge rectifier.	Job Sheet,
11	Review	<u>WHITE BOARD & MARKER</u>	Show skill in identifying the	

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			bipolar junction transistor.	
12	Review	<u>WHITE BOARD & MARKER</u>	Show skill in determining input and output characteristics of a transistor in common emitter connection. Verify the truth tables of different types of logic gates.	