

## **BESI-4T: BASIC ELECTRICAL ENGINEERING (Theory)**

### **❖ Course Outcome:**

**After the completion of Course, Students will be able to.....**

		<b>Blooms Level</b>	<b>PO</b>
<b>BESI-4T.1</b>	<b>Define</b> and <b>illustrate</b> the basic concepts of electric circuits and implement them in the electrical networks	Level 2	PO 1,3
<b>BESI-4T.2</b>	<b>Define</b> and <b>explain</b> basic terms used in magnetic circuits and <b>elaborate</b> various phenomenon associated with them	Level 2,6	PO 1, 3
<b>BESI-4T.3</b>	<b>Illustrate</b> various combination circuits of R, L and C components and <b>define</b> basic concepts related to single phase and three phase ac circuits	Level 2	PO 1, 2
<b>BESI-4T.4</b>	<b>Explain</b> basic construction of transformer and <b>interpret</b> various parameters associated with it with the help of numerical	Level 2	PO 1,3

**Name and Sign of Course Teacher**

## **BESI-4P: BASIC ELECTRICAL ENGINEERING (Practical)**

### **❖ Course Outcome:**

**After the completion of Course, Students will be able to.....**

		<b>Blooms Level</b>	<b>PO</b>
<b>BESI-4P.1</b>	<b>Illustrate</b> the basic electric and magnetic circuits and <b>test for</b> their basic parameters	Level 2,5	PO 1,3
<b>BESI-4P.2</b>	<b>Construct</b> and <b>compare</b> different three phase circuits	Level 2,6	PO 1,3

**Name and Sign of Course Teacher**

## **BESII-5: ADVANCED ELECTRICAL ENGINEERING (Theory)**

### **❖ Course Outcome:**

**After the completion of Course, Students will be able to.....**

		<b>Blooms Level</b>	<b>PO</b>
<b>BESII-5.1</b>	<b>Define</b> and <b>Explain</b> different types of power generation, Single line diagram for generation-Transmission & distribution for power system, Different types of protection equipments.	Level 1,2	PO 1,2
<b>BESII-5.2</b>	<b>Define</b> and <b>Explain</b> basics of DC Machine, different types, characteristics and application of DC Machine and <b>Interpret</b> various parameters associated with it with the help of numerical	Level 1,2	PO 2,3
<b>BESII-5.3</b>	<b>Evaluate</b> cost of electrical energy, <b>Define</b> and <b>Explain</b> various terms related to Illumination.	Level 1,2,5	PO 3,4
<b>BESII-5.4</b>	<b>Explain</b> basic construction of Three phase and Single Phase Induction motor, torque -speed characteristics, applications.	Level 2	PO 2,4



**S. Bhattacharya**

**Name and Sign of Course Teacher**