

TARA GOVERNMENT COLLEGE (A):: SANGAREDDY

**DEPARTMENT OF PHYSICS**

SYLLABUS FOR CERTIFICATE COURSE

## HOUSEHOLD ELECTRICAL WIRING

### **UNIT- I DOMESTIC WIRING (15hr)**

Various types of house wiring and basic requirement of various utilities, estimate and format of estimation, Materials and accessories used in domestic wiring and their cost, types of loads and sub circuits, Types of service mains, Design of number of sub circuits and distribution boards, preparation of wiring installation plan layout with light load, power load and control point.

### **UNIT- II MAIN MAINTENANCE (10hr)**

Selection of main switch cable, based on the load in circuit/sub circuits. Calculation of length of wiring cable and labor charges. Preparation of detailed estimate in standard Proforma. Estimation of wiring of small residential building, offices and Commercial establishments like shops, sales counter, stores.

### **UNIT- III POWER WIRING (10hr)**

Discussion on various loads and wiring methods circuits and in small industries agriculture etc., materials and accessories used in motor installation and their cost. Designing of distribution boards, cable, motor control panel.

### **UNIT- IV WIRE INSTALLATION (10hr)**

Preparation of wiring installation plan and single line diagram, calculation of length of wiring cable and labor charges detailed estimate in the standard Proforma Related problems on installation of motors for small workshops and irrigation pump sets.

### **Text Books:**

1. *Electrical Technology, chand publishers, New Dehli- B.L.Theraja.*
2. *Electrical Technology, ELBS Publications - Edward.*
3. *D.C Fundamentals, Delman Publications - Loper*
4. *A.C Fundamentals, Delman Publications - Loper*

CHOICE BASED CREDIT SYSTEM  
DEPARTMENT OF PHYSICS  
Overview of Syllabus of Elective

**HOUSEHOLD ELECTRICAL WIRING**

**B. Sc I/II/III Year**

**Credits 02**

**Sub : Physics**

<b>Course</b>	<b>Certificate Course</b>
<b>Module ( Unit)</b>	<b>HOUSEHOLD ELECTRICAL WIRING</b>
<b>Semester in which the course is to be taught</b>	<b>I/II/III/IV/V/VI</b>
<b>No. of credits</b>	<b>02</b>

**AIM OF THE COURSE**

**The training provides all the essential skills needed to service, repair and maintain electrical wiring**

**OBJECTIVES**

1. Assembling & disassembling of different types of components of wiring
2. Fault finding & troubleshooting of electrical wiring
- 3 To enable students to acquire repairing skills
4. To enable students to learn household wiring