

## **Corrigendum Notice for the Certificate Course**

**jointly organised by**

### **Dept. of EE (JU) & NIELIT**

**One six months duration certificate course will be commenced from 04/05/2018(Friday) merging both the courses "Electricity & Safety Practices" and "Installation ,Maintenance of Electrical and Electronics System".**

**The students already enrolled in these two above mentioned courses are requested to come at 5:30 pm on 04/05/2018(Friday) at KCR Hall (1<sup>st</sup> floor) of EE Dept. J.U.**

**The revised title and syllabus of the course is shown below:**

### **Title: Electrical Installation & Safety Practices**

#### **SYLLABUS:**

- **INTRODUCTION, DEFINITION OF VOLTAGE, CURRENT, POWER, ENERGY, UNITS & SYMBOLS**
- **FUSE, SWITCH & CIRCUIT BREAKERS CODE OF PRACTICES AND SELECTION**
- **OHM'S LAW & OTHER RELEVANT LAWS, HEATING EFFECT OF ELECTRICITY**
- **RESISTANCE, INDUCTANCE, CAPACITANCE**
- **DC SERIES & PARALLEL CIRCUIT**
- **CONDUCTOR, INSULATOR, SWG WIRE GAGE, CABLE**
- **TESTING OF LINE**
- **HOUSE WIRING CONNECTION & DIAGRAM OF DISTRIBUTION & FUSE BOARD**
- **STAIRCASE LIGHTING, FLUORESCENT TUBE, ELECTRIC BELL, BED SWITCH CONNECTION ETC.**
- **TRANSFORMER – PRINCIPLE, CONSTRUCTION, MATERIAL**
- **STORAGE DEVICE – BATTERY**
- **ELECTRIC MOTOR – DC & AC MOTOR (INTRODUCTION)**

- **ELECTRIC GENERATOR – DC & AC GENERATOR (INTRODUCTION)**
- **METHOD OF LAYING WIRE OVER SHORT DISTANCES**
- **OVERHEAD AND UNDERGROUND LINE (AC) DISTRIBUTION**
- **SOLAR ELECTRICITY**
- **ELEVATOR**
- **FUEL, EXPLOSIVES, SOURCES OF FIRE**
- **AUTOMATIC SMOKE DETECTION, HEAT DETECTOR, FIRE EXTINGUISHMENT MECHANISM**
- **EXTINGUISHING AGENT, ELECTRICAL ACCIDENT, MECHANISM OF ELECTRICAL INJURY**

### **LABORATORY**

- **STUDY OF FUSE**
- **STUDY OF FILAMENT LAMP CHARACTERISTICS**
- **STUDIES ON RESISTANCE, INDUCTANCE AND CAPACITANCE**
- **STUDY OF AC SERIES AND PARALLEL CIRCUITS**
- **HOUSE WIRING BY PVC CASING CAPING INCLUDING TESTING AND COMMISSIONING**
- **HOUSE WIRING BY PVC RIGID PIPE INCLUDING TESTING AND COMMISSIONING**
- **INDUSTRIAL WIRING BY MS PIPE INCLUDING TESTING AND COMMISSIONING**
- **MEASUREMENT OF EARTH RESISTANCE BY EARTH TESTER**
- **MAINTENANCE OF STORAGE BATTERIES AND CONDITION OF CELLS**
- **MAINTENANCE OF DIFFERENT TYPES OF MOTOR WIRING**
- **MEASUREMENT OF POWER AND ENERGY IN AC CIRCUITS**
- **STUDY OF CEILING FAN CHARACTERISTICS**
- **STUDY OF FLUORESCENT LAMP CHARACTERISTICS**
- **SOLAR ELECTRICITY, PV MODULE & CONTROLLER WITH INVERTER WITH DEMO**
- **ELECTRONIC CIRCUIT MAKING (LED DRIVER MAKING)**

### **VISITS & REPORTS**

- **TRANSFORMER INSTALLATION SITE**
- **FIRE SAFETY INSTALLATION AT OFFICES**
- **SUBSTATION, ELEVATOR INSTALLATION SITE**
- **FIRE TRAINING INSTITUTE**
- **DISASTER MANAGEMENT TRAINING AT POLICE TRAINING SCHOOL**