



BHARAT

Institute of Engineering and Technology
(Approved by AICTE, Affiliated to JNTUH & Accredited by NAAC)

Two Days Hands-on Workshop on Electrical Switchgear & its Applications 18th & 19th December 2019 REGISTRATION FORM

Name (in block letters):
Dr./Mr./Ms./Mrs.....

Designation:

Organization:

Address:.....
.....

City.....State.....

Pin _____

Phone:(O).....(M).....

Email.....

Signature of the Candidate with date

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Dr.N.Srinivas

(Dean-Academics, BIT)

Convener

Dr.M.Madhiarasan

R & D In-charge, Dept. of EEE, BIET

Venue

Seminar Hall, BIT & Electrical

Machines LAB (EEE), BIET,

Hyderabad

Contact us:

Dr. M.Madhiarasan

Asst.Prof., Dept. of EEE, BIET

Mobile.No: 9380101772

Visit us: www.biet.ac.in

Two Days Hands-on Workshop

ON

Electrical Switchgear & its Applications

18th & 19th December 2019

Convener

Dr. M.Madhiarasan

R & D In-charge, Department of Electrical and Electronics
Engineering



dbson

UNIVERSAL POWER CONTROLS
22, Sathyamangala Industrial Area, Tumkur

Karnataka 572104

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Organized
by

**Research & Development Cell and
ISTE Chapter**

**Bharat Institute of Engineering & Technology
Hyderabad, Telangana, India**

About BIET Hyderabad

Bharat Institute of Engineering & Technology (BIET), established in 2001 by Chinta Reddy Madhusudhan Reddy Educational Society (CRMR) under the leadership of Sri Ch. Venugopal Reddy, an eminent educationist with a social conscience and commitment. It has grown in its size and stature over the years, from an initial intake of 240 to 1308 students. BIET is one of the largest Engineering Colleges in Telangana. It offers 6 B.Tech programs, 9 M.Tech programs and 1 MBA program. Bharat Institute of Engineering & Technology (BIET) is NAAC and NBA Accredited Institution with well experienced and highly qualified faculty, State-of-the-art Infrastructure, regular placements and well equipped laboratories.

Objective of the Workshop

The objective of this workshop is to provide the practical exposure to students on connections of electrical switchgear systems. The students will learn about the selection of components, wiring and troubleshooting of electrical switchgears like DOL Starters, Semi-Automatic & Fully Automatic Star-Delta starters, construction of automatic power factor correction panels and variable frequency drives. This workshop will help the students to gain practical knowledge about operation and maintenance of electrical switchgear. This builds the confidence in the students both practically and theoretically.

About the Workshop

1. **Basics of Electrical :-** This covers topics involving AC Principles, Electrical symbols used in industries, 1Phase & 3Phase, How to Read Drawing

2. **Contactors and Control Gears :-** Different types of Contactors , Over Load Relays, NO-NC Auxiliary Contacts, Timers, Push Buttons, Push Buttons, Current Transformers.
3. **Relays :-** Under Voltage Relay, Over Voltage Relay, Phase Failure Relay, Earth Leakage Relay.
4. **BREAKERS :-** Air Circuit Breakers ACB , Moulded Case Circuit Breaker MCCB, MPCB, MCB, Switch Fuse Unit SFU Selection of these Switchgears.
5. **Practical Session of DOL Starters :-** Introduction to Direct Online Starting of Motor Control Circuit, Power Circuit, Troubleshooting, Selection of Components.
6. **Practical Session of Semi Automatic Star Delta :-** Starting of Motor, Control Circuit Power Circuit, Troubleshooting & Selection of Components
7. **Practical Session of Fully Automatic Star Delta :-** Starting of Motor Control Circuit Power Circuit, Troubleshooting & Selection of Components
8. **Practical Session of Remote On & Off** of Motor, Control & Power Wiring .
9. **Practical Session of Forward Reverse :-** Starting of Motor, Control Wiring, Power Circuit, Troubleshooting & Selection of Components.
10. **APFC PANELS :-** Construction Of Automatic Power Factor Correction Panels , Power Factor.
11. **Ingress Protection (IP) :-** Selection Wire, Cable, Lugs, Glands
12. **VFD – Variable Frequency Drive**
13. **Electrical Maintenance :-**
 - a. Reactive Maintenance
 - b. Preventive Maintenance
 - c. Predictive Maintenance Thermo-Graphic Analysis

Outcome of the Workshop

- Enhance participants practical knowledge and skills .
- Acquired training on Electrical Switchgear, applications and practical demonstration.
- Promote students develop an industry oriented project.
- Enhance the placement opportunity.

Trainers

Mr. Shivanand D V BE Elect

Mr. Basavesh Shetty S D

Organizing Committee

Dr. Madhana Mohana, Assoc. Prof of CSE, NAAC Co-ordinator

Dr.V.Rambabu, Dept. Co-ordinator of ECE, BIET

Dr.Neeraj Kumar Misra, R & D in-charge, ECE, BIET.

Mrs. Arunajothi, Dept. Co-ordinator o of CSE, BIET

Dr.Anitha, R & D in-charge, CSE, BIET

Dr.J.Bhagwan Reddy, Dept. Co-ordinator of EEE, BIET

Dr.M.Madhiasaran, R & D in-charge of EEE, BIET.

Dr.Dipesh Poopli , R & D in-charge of Mechanical, BIET

Dr.Nishanth Yadav, Dept. Co-ordinator of Civil, BIET

Ms.Anuja, R & D in-charge of Civil, BIET

ALL EEE DEPARTMENT FACULTY, ADMIN AND ACADEMIC IN-CHARGE OF ALL DEPARTMENTS

Target Audience

1. Academicians, Research Scholars, Students, Entrepreneurs, Scientists, Start Ups, Industry Professionals & Legal Professionals.

Registration Fee Details

For BIET, Faculties and Students: Rs.1000/-.

For outside participants

For Academicians: Rs.1500/-

For Research Scholars and Students [UG/PG]: Rs.1500/-

For Industrialists: Rs.2500/-

Please send either the hard copy or soft copy of the registration form duly signed as per the given format to drm.madhiasaran@biet.ac.in on or before 16th December 2019.

Fill the registration form by using Google form sheet
https://docs.google.com/forms/d/e/1FAIpQLScq1zTwiGNIw0uqLN0Vnp_jsVGmf1vRH8LhtJBDyxbRakpzQA/viewform?vc=0&c=0&w=1

Note: Number of Participant is 60 selected by First Come First Serve basis. A Certificate & Training Manual will be issued for first 60 registered participants.



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