

FINISHING SCHOOL

FOR ELECTRICAL ENGINEERS



CORPORATE SUPPORT



Mastro Lee
Engineering & Management Consultants

Why ELECTRICAL ENGINEERING @ Mastro Lee...

- ✓ Only Training Centre in South India having its own Project Division
- ✓ Tie up with multinational Companies for internship
- ✓ Chance to work in our GCC projects
- ✓ Live field Training for all
- ✓ Continuously Updated Syllabus
- ✓ Best Study materials and case studies
- ✓ Small Batches for Individual Attention
- ✓ Individual project for Students ensuring one on one attention
- ✓ Industry recognized certificates
- ✓ Placement drive with multiple companies every month
- ✓ Sessions from Companies Registered under Govt's Make in India Initiative
- ✓ Factory Training to comply with the Manufacturing procedure
- ✓ Sessions with Leading Consultants, Architects and Project Managers
- ✓ Batch Toppers will be appointed directly in our company to work in our Middle east projects

Syllabus...

1. GENERAL CONCEPT :

- ▶ Electrical Generation, Transmission and Distribution
- ▶ Different types of equipment and their load as per standard specifications
- ▶ Services : Lighting, Power, Fire Alarm, Emergency Lighting, etc

2. SYMBOLS AND LEGENDS :

- ▶ Power Services
- ▶ Lighting
- ▶ Fire Detection
- ▶ ELV/ Low Current
- ▶ Earthing and Lighting

3. POWER SERVICES :

- ▶ Cables
- ▶ Selection, Conductor, Strands, Cores and Insulation
- ▶ Armored and Unarmored Cables
- ▶ Cable tray raceway, Trunking, Conduits and Routing
- ▶ Busbar Details and selection of high rise building
- ▶ Switch Gears (Circuit Breakers) Types and Selection

- ▶ Capacitor bank (Power factor improvement)
- ▶ Single line Diagram (SLD)
- ▶ Calculation: Voltage drop calculation and load calculation based on BS 7671

4. LIGHTING :

- ▶ Lux level design as per BS 12464
- ▶ Escape route lighting as per NFPA 101
- ▶ Different types of Lamp like GSL, ETL, CFL, LED, MVL, etc

5. FIRE DETECTION :

- ▶ Fire alarm system as per NFPA 72
- ▶ Smoke (Heat Detection)
- ▶ Sounders & Manual call points
- ▶ Voice evacuation system for commercial / Residential building

6. ELV / Low Current system: (General Concepts) :

- ▶ Public Address System
- ▶ Close circuit television (CCTV): Types of cameras and circuiting
- ▶ Communication: TV, Telephone, intercom and internet networking of cables and types

7. Earthing and Lighting :

- ▶ Lighting Protection
- ▶ Lightning protection system design based on BS/IEC 62305
- ▶ Types of Earthing According to the requirements
- ▶ Earthing system design in line with BS 7430

8. DRAWING DETAILS :


- ▶ Lighting Layout
- ▶ Power Layout
- ▶ Emergency Lighting Layout
- ▶ CCTV Layout
- ▶ Public Addressable Layout
- ▶ Fire Alarm system Layout
- ▶ Communication Layout
- ▶ Cable Tray Layout
- ▶ BUSBAR Layout
- ▶ Bus duct riser drawings
- ▶ Single line drawing (SLD)

9. STANDARD & CODES :


- ▶ Designing as per Electrical standards: DEWA, ADEWA, ADDC, KHARAMA, etc




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