



MTTC INTERNATIONAL LLC expertise in specialized training for mechanical, Electrical & Civil Engineers. We are Govt. Registered institute affiliated to the scientific & Technical education development council. Our Institute is TUV Rheinland Certified with ISO 9001 : 2015.

TOP ACHIEVERS FROM MTTC



OUR CORPORATE PARTNERS



OUR COMPLETED PROJECTS

- Gold Souk Mall, Kochi
- Anantara Al Jabal Al Akhdar Resort
- Forum Mall Cochin
- Grand Mall Muscat
- India International Habitat Center-Kochi
- Kofiland-Thekkady
- Lulu mall-Kochi
- Lusail Main Stadium Towers
- Infra Project FIFA World cup, 2022 Qatar

TOP RECRUITING COMPANIES

- Hyderabad Airport
- Cochin naval base
- Cochin refinery
- JK Tyre & Industries
- Jindal Steel & Power
- PowerTech
- Powerees
- Delight Engineers
- Powerdrive Electrical Enterprises



(Art ISO 9001:2015 TÜV RHEINLAND CERTIFIED TRAINING CENTRE)

COURSES

- MEP ELECTRICAL
- HVAC PLUMBING, FIRE, SOLAR
- MEP CONSTRUCTION MANAGEMENT
- MEP DESIGN, DRAFTING
- MEP INSTALLATION
- MEP MAINTENANCE
- MEP QA/QC,QS
- ELECTRICAL GRADE A LICENSE TRAINING
- UPDA QATAR, DEWA, SEWA, KSE KUWAIT
- SOLAR SYSTEM
- PLC, SCADA, HMI, BMS
- REVIT MEP

HEAD OF THE DEPARTMENT
DEPARTMENT OF ELECTRICAL ENGG. & TECH-N
ST. JOSEPH'S COLLEGE OF ENGG. & TECH-N
CHOONDACHERRY P.O., PALAI-666 57

WHY YOU SHOULD JOIN IN MTTC FAMILY

- LICENSED AND GULF EXPERIENCED FACULTIES
- GULF JOB TRAINING AND PLACEMENT ASSISTANCE
- MTTC HAVE TIE UP WITH MEA LICENSED ABROAD RECRUITERS
- WELL EQUIPPED LAB AND ONSITE TRAINING
- SR ENGINEER FROM FIFA WORLD CUP 2022 QATAR MAIN STADIUM & INFRA. DEVELOPMENT



U.A.E. OMAN, QATAR, INDIA
MTTC
INTERNATIONAL LLC

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ELECTRICAL DESIGN/ DRAFTING

THE COURSE IS INTENDED FOR ELECTRICAL ENGINEERS & PROFESSIONALS IN INDUSTRY TO DESIGN ELECTRICAL & LOW VOLTAGE SYSTEMS. THE COURSE INCLUDES LIGHTING AND WIRING, LOAD CALCULATIONS, CABLING, EARTHING, ELECTRICAL SWITCHGEAR, SUBSTATION PLANNING

ELECTRICAL DESIGN, INSTALLATION & MAINTENANCE

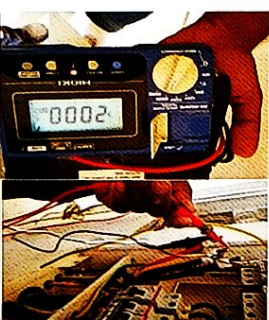
- INTRODUCTION TO ELECTRICAL SYSTEM DESIGN
- LIGHTING CALCULATION, LIGHTING LAYOUTS, (MANUAL & DALIUX SOFTWARE METHOD)
- LOAD CALCULATION(DIRECT & WATT /SQ.FT METHOD)
- SCHEMATIC DRAWING PREPARATION - INDIA, GULF
- PANEL SELECTION METHOD, PANEL CLASSIFICATION PANEL GRADING
- TRANSFORMER & GENERATOR SELECTION
- EARTHING SYSTEM & LIGHTNING PROTECTION SYSTEM
- CABLE SELECTION METHODS (SHORT CIRCUIT CURRENT, VOLTAGE DROP & CURRENT RATING)
- LOW VOLTAGE SYSTEM DESIGN
- RELAY SYSTEM AND CONTROL WIRING-AME/MC2, REF, OIL SURGE, BUCKHOLZ, DIFFERENTIAL PROTECTION ETC
- ELECTRICAL SYSTEM MAINTENANCE-PERIODIC, PREVENTIVE MAINTENANCE (TRANSFORMER, GENERATOR, MOTOR, UPS, LIGHTING SYSTEM)
- OPERATION AND MAINTENANCE MANUAL OPERATION
- RING MAIN UNIT MCC PANEL DESIGN (MOTOR CONTROL CENTRE DESIGN)
- CAPACITOR PANEL SELECTION FOR POWER FACTOR IMPROVEMENT
- DOCUMENT PREPARATION TO KSEB, ANERT & INSPECTORATE
- TENDERING AND BOQ PREPARATION.

ELECTRICAL QA /QC

- HOW TO REVIEW AND INSPECT ALL ELECTRICAL MATERIALS AS PER PROJECT SPECIFICATION
- KERALA ELECTRICAL INSPECTORATE STANDARDS FOR ELECTRICAL INSTALLATION
- SUBSTATION ROOM DESIGN STANDARDS
- TESTING AND COMMISSIONING INSPECTION TEST PROCEDURES & METHOD STATEMENTS FOR INSTALLATION OF VARIOUS SYSTEMS
- MEGGER TEST, EARTH TESTING, CONTINUITY TESTING
- GENERATING METHODS OF MVR AS PER APPROVED MAR FOR MEP INSTALLATION
- PREPARATION OF PROPER SURVEILLANCE REPORT AND NCR REPORTS
- CHECKING METHODS TO ENSURE MEP INSTALLATION ARE UNDER QUALITY
- CONTROL AS PER PROJECT SPECIFICATION AND ENGINEERING STANDARDS

SOLAR SYSTEM DESIGN

- TYPES OF SOLAR SYSTEMS - ON GRID & OFF GRID SYSTEM
- SOLAR PANEL MANUFACTURING & INSTALLATION
- DESIGN OF - ON GRID & OFF GRID SYSTEM
- INSTALLATION & MAINTENANCE OF PANELS
- PV SYSTEM SOFTWARE & REMMARSH, SHADOW ANALYSIS



URJAMITHRA
ആശുപത്രി സർവ്വീസ് സെന്റർ
Aashwarya Urja Service Centre

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UM-087 Kothamangalam
Panchsathi Building Near Panchsathi Office
Vareppatty, Kothamangalam-686691
Mob: 9656282814, 9656332814
Professional By Ashwarya C. Chandrasekharan of Ashwarya



PROJECT MANAGEMENT SYSTEM

- INTRODUCTION
- ORGANIZATIONAL BREAKDOWN STRUCTURE
- SCHEDULING A PROJECT, CALENDER
- ACTIVITY, RESOURCE, PROJECT & WBS
- WORK PRODUCT & DOCUMENTS
- RESOURCE ANALYSIS & LEVELING
- UPDATING PROGRAMS
- THRESHOLDS, ISSUES, RISK, REPORT
- FILTER, GLOBAL CHANGE
- METHODOLOGY MANAGERMENTS

PLC, SCADA, VFD, BMS

- TIMER, COUNTER
- COMPARE BLOCK
- OPERATIONS, SUBROUTINES
- SEQUENTIAL COMPARE
- COMMUNICATIONS
- INTRODUCTION OF VFD
- BASICS OF MOTOR
- PROGRAMMING OF MOTOR DRIVES
- SCAADA PROGRAMMING
- OMRON, MITSUBISHI, SIEMENS
- FUNDAMENTALS OF BUILDING MANAGEMENT SYSTEM
- CONTROL PANELS
- SECURITY SYSTEMS - CCTV, ALARMS
- BIOMETRIC ACCESS CONTROL
- FIRE ALARMS & PANELS
- BMS CONFIGURATION
- LIGHTING CONTROLS
- UPS AND GENERATORS
- HVAC SYSTEMS

NEBOSH

- IG1
- MANAGEMENT OF HEALTH & SAFETY
- IG2
- RISK ASSESSMENT (PROJECT)

IOSH

- INTRODUCTION MANAGING SAFELY
- ASSESSING RISKS
- CONTROLLING RISKS
- UNDERSTANDING RESPONSIBILITIES
- UNDERSTANDING HAZARDS
- INVESTIGATING INCIDENTS
- MEASURING PERFORMANCE

FIRE DETECTION SYSTEM

- INTRODUCTION TO FIRE & SAFETY
- FIRE PROTECTION & DETECTION SYSTEM DESIGN
- FIRE PROTECTION STANDARDS & NORMS
- FIRE PROTECTION EQUIPMENTS
- PASSIVE FIRE PROTECTION
- FIRE PROTECTION DESIGN AND DRAFTING

NEPA & NBC STANDARDS

- TENDER PREPARATION & ESTIMATION
- ADDRESSABLE & ANALOG SYSTEM

HVAC

- INTRODUCTION TO HVAC DESIGN
- HEAT LOAD ESTIMATION BASICS
- AC DUCT & VENTILATION DESIGN
- INDOOR & OUTDOOR UNIT SELECTION (CHILLER & VRF SYSTEM)
- PIPING AND VALVE SELECTION
- HVAC DRAWING & MEP COORDINATION USING AUTOCAD
- SOFTWARES - HAP, MC-QUAY DUCT & PIPE SIZER
- TENDER PREPARATION & ESTIMATION

PLUMBING

- INTRODUCTION TO PLUMBING DESIGN & DRAFTING
- CP FITTINGS AND SANITARY WARES
- TYPE OF WATER PIPES(PVC, CPVC, PPR)
- WATER PURIFICATION
- WATER TANK SIZING & ITS CALCULATIONS
- WATER SUPPLY PIPING, SYSTEMS & PUMP SELECTION
- DRAINAGE SYSTEM DESIGNING
- SUPPLY AND DRAINAGE SCHEMATIC PREPARATION
- TENDER PREPARATION & ESTIMATION

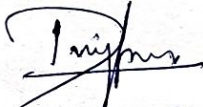


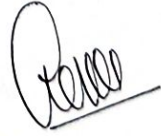
Seminar on 'Career Guidance' by MTTC International

Report

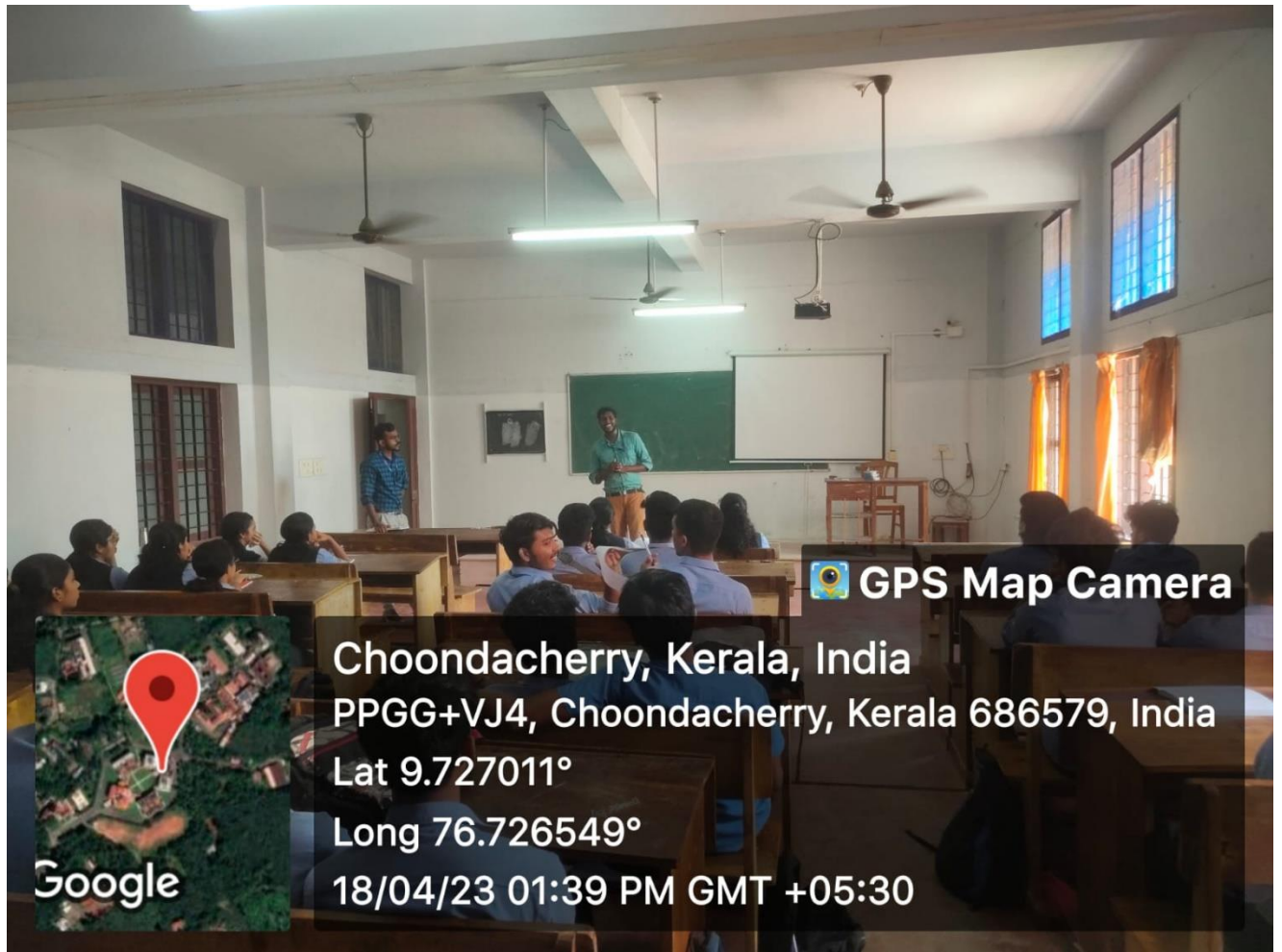
Department of Electrical & Electronics Engineering Department organized a talk on Career Guidance by MTTC International on 18th April 2023. 31 students of S6 EEE were attended the program.

During this informative session the faculty of MTTC mainly discussed about MEP courses and its further way to job oriented future. They also discussed about the scope on Solar & Electric Vehicle and its importance in the future. Also, with reference to mechanical automation and industrial automation, they give a total awareness about the futuristic courses and its necessity.


Dr. J. James
Faculty In-charge
Invited Talk


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CHOONDACHERRY P.O., PALAI-686 579

Seminar on 'Career Guidance' by MTTC International



SEMINAR ON 'CAREER GUIDANCE' By MTTC INTERNATIONAL

Date: 18/4/2023

ATTENDANCE SHEET

Sl. No.	Name of the Student	Signature
1.	Manakshi S Nair	<u>Manakshi</u>
2.	Angel Mariya K.S	<u>Angel</u>
3.	Silja Meem Saji	<u>Silja</u>
4.	Anetha Benny	<u>Anetha</u>
5.	Sona Jose	<u>Sona Jose</u>
6.	Rakhi Mol K.S	<u>Rakhi</u>
7.	Ann Maria George	<u>Ann</u>
8.	Anupama Prakash	<u>Anupama</u>
9.	Ashwin k Prasad	<u>Ashwin</u>
10.	Sonu Sabu	<u>Sonu</u>
11.	Kiran Jayaraman	<u>Kiran</u>

Page 1 of 3

[Signature]

Attendance

S/NO.	Name	Sig
12	Cinta Ann Philip	<u>Litt</u>
13.	Ashna Pious	<u>Opshne.</u>
14.	Alby Pajan	<u>Alby</u>
15.	Jinson Idho Thomas	<u>Jinson</u>
16.	Alan Jasby	<u>Alan</u>
17.	Noel Jofen	<u>Noel</u>
18.	Geo Tom	<u>Geo</u>
19.	Arande Neregeron C.A	<u>Arande</u>
20.	Riches Anil	<u>Riches</u>
21	Aravind M Naw	<u>Aravind</u>
22	Rahul P.R	<u>Rahul</u>
23	Rithin Vmghuse	<u>Rithin</u>
24	Joyal Resi	<u>Joyal</u>
25	Ben singh	<u>Ben</u>
26	Benito Saji	<u>Benito</u>
27	Sebin Siby	<u>Sebin</u>
28	Joyal Biju	<u>Joyal</u>
29	Jeswin Sebastian Shasi Mathew	<u>Jeswin</u>

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