

Course Highlights

- Lectures by eminent experts from MSME Technology Centre, Durg
- Hands-on Training on Solar PV Systems Design, Installation and Maintenance
- Lab Sessions at MSME Technology Centre Durg Campus
- Job Creation and Business opportunity in Energy Sector
- Testing and Consultancy Opportunities in Solar PV systems
- Industry-Institute Interaction and taking part in joint projects
- **Certification by Ministry of MSME, Govt. of India**

Upcoming Courses Planned

- Electrical Equipment Repair and Maintenance
- AutoCAD (ELECTRICAL)
- MATLAB Programming & Simulink Modeling
- Energy Conservation and Management
- Operation and Maintenance of Electrical Machines
- Energy Audit and Energy Efficiency
- Energy Systems Design for Remote Villages
- Financial and Business Model Development
- Electric Vehicles: Repair and Maintenance

Chief Patron

Dr. A. M. Rawani,
Director, NIT Raipur

Patron

Dr. Prabhat Diwan,
Dean R&C, NIT Raipur

Convener

Dr. N. D. Londhe,
HoD (Electrical), NIT Raipur

Coordinators

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Short Term Training Program
on

Solar PV Systems: Design, Installation and Maintenance

9th – 14th November, 2021



Organized by

Department of Electrical Engineering
National Institute of Technology
Raipur-492 010, India
(An Institute of National Importance)

in association with

**MSME Technology Centre (TC),
Rasmada Durg (CG)**

About the Institute

National Institute of Technology, Raipur situated in the capital of Chhattisgarh, has proven to be a Pioneer in the field of science and technology over the decades. The institute laid its foundation stone with the hands of Hon'ble President Dr. Rajendra Prasad on 14th September 1956, and the inauguration of the Institute building was done by Prime Minister Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route.

About the Department

The Department of Electrical Engineering came into existence in year 2000. Electrical Engineering Department acts as the study, research and workplace for approximately 600 students from all across India. The department provides an outstanding research environment and offers academic program leading to the award of B. Tech, M.Tech. and Ph.D. degrees.

About MSME-TC Durg

MSME Technology Centre Durg is a premier institution under Ministry of Micro, Small & Medium Enterprises, Govt. of India offering various skill oriented training programs in the field of CAD/CAE/CAM, CNC Programming & Machining, Basic Automation, Embedded/Python programming & other relevant areas.

Course Objectives

A Six Days training program on **Solar PV Systems: Design, Installation and Maintenance** is proposed for the Lab Staff of NIT Raipur and Industry Personnel. The program aims to provide training to the staff and industry personnel to help them in enhancing their knowledge and skillset towards Design, Installation and Maintenance of various Solar Photovoltaic Systems. The course has been systematically designed to disseminate knowledge on all aspects of Solar PV Systems, with the following major objectives:

- Enhancing skillsets of the Staff and Industry Personnel towards proper upkeep of various solar PV Systems installed in institute/industry premises.
- Involving the Lab Staff in various consultancy activities related to Solar Systems .
- Involving the Lab Staff in designing new experiments for students and Mentoring Student Projects.
- Enhancing Industry-Institute Interaction and taking part in joint projects.

Topics to be Covered

- Introduction to Renewable Energy & Solar PV systems
- Basics and types of solar PV systems
- Characteristics of solar PV modules
- Protection systems, Batteries, Inverter, Charge controller
- Load calculation, System sizing, Site Survey
- Basics on installation process and operation
- Basics on maintenance of solar PV systems

Registration

Applications in prescribed format must reach the coordinator on or before **8th November, 2021 through Google form**. Certificates will be issued to the participants only after attending the complete course.

Registration Fee

Training fee of MSME: Rs. 4000 + GST (for outside participants from Industry/ Academia)

Who Should Attend ?

- Technical Staff and Lab Staff of various Academic/ Research Institutes
- Industry Personnel (Officers/ Staff)

Provisional Registration

Online Registration Link for this Workshop:

<https://forms.gle/oFgEvwQ3LTB8JeWW6>

Contacts for any Queries or help :

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REGISTRATION FORM

Short Term Training Program
on
“Solar PV Systems: Design, Installation and Maintenance”
9th – 14th November, 2021

Organized by
Department of Electrical Engineering,
National Institute of Technology Raipur in Association with MSME-Technology Centre, Durg

Full Name (Block Letters):

Name of College/Institution/Organization:

Qualification:

Designation :

Address:
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Phone No./Mobile No.:

E-mail:

Payment Receipt Details:

Process of Payment of Training Fee:

The Training fee of Rs. 4000/ + 18% GST may be deposited to the following account:

Account No. : 38541283117

Bank : State Bank of India

Branch Code: 00370

IFS Code: SBIN0000370

Signature of the Participant

Place:

Date:

Duly filled registration form must reach to Department of Electrical Engineering, NIT-Raipur, before last date of receipt of registration form by post/by hand along with registration fee or **for online registration** [Click here](#)