

Resource Persons

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GUJARAT TECHNOLOGICAL UNIVERSITY

Centre For
Continuing Education (GTU-CCE)
Certified training course on

SOLAR PV PANEL INSTALLATION

22 - 26 Aug 2022



Organized by
Department of Electrical Engineering,
LAXMI INSTITUTE OF TECHNOLOGY,
Laxmi Vidyapeeth, Sarigam, Valsad-396155, Gujarat.

REGISTRATION



FOR REGISTRATION
bit.ly/litsolar



COURSE FEES
₹ 1000
(₹600 course fees &
₹400 for material*)



LAST DATE
18 AUG 22



FOR ANY QUERY
9723318247



*Course material is compulsory

About Trust

Our campus is managed by Smt Shantaben Haribhai Gajera Charitable Trust, Surat, which was established on January 15, 1993. The Gajera family, which started a diamond business Laxmi Diamond - in Surat in the mid-1970s, now owns multinational diamond manufacturing and jewelery design units and offices in more than 7 countries around the world. Founded in loving memory of the mother of 5 sons, the Trust is a platform dedicated to the purest of intentions - to bring positive, sustainable change to the world through self-reliance and opportunity. Our goal is to create a future of unity and happiness with initiatives for better health, education for all and social cohesion to build and grow strong communities.

About Institute

Laxmi Institute of Technology, Sarigam, located in a deprived area of Sarigam in Valsad district of Gujarat state, has more than a decade of rich experience of Smt. Shantaben Haribhai Gajera Charitable Trust and of worldwide repute. Our institute is at the forefront of bridging the gap between institute and industry and working for the benefit of society. We offer UG programs in Mechanical, Electrical Engineering, Civil Engineering, Computer Science, Information Technology, and diploma programs enriched by renowned professionals and equipped with latest technology for teaching and learning process with emphasis on research. We have strengthened our relationship with IIT Mumbai for virtual lab and other multinational companies. International engagement is on the way for faculty development program, project development program to place Laxmi Institute of Technology ranked among the top universities.

Course Outcome

Upon completion of this course, students will gain the basic knowledge of solar energy, how to harvest it effectively, how to install residential and commercial PV panels as needed, what the government incentives are, and how to apply for government grants.

About GTU

Gujarat Technological University (GTU) is a premier academic and research institution that has pioneered new ways of thinking since its inception in 2007 by the Government of Gujarat per Gujarat Act NO. 20 of 2007. Today, GTU is an intellectual destination that attracts inspired scholars to its campus and keeps GTU at the cutting edge of ideas that challenge and change the world. GTU is a state university with 486 affiliated colleges located throughout the state of Gujarat through its five zones in Ahmedabad, Gandhinagar, Vallabh Vidyanagar, Rajkot and Surat. The university covers engineering, architecture, management, pharmacy and computer science. The university has about 4,00,000 students enrolled in a large number of diploma, undergraduate, and postgraduate programmes, as well as a robust doctoral programme.

Course Objective

The main purpose of this hands-on training is to raise awareness and provide participants with valuable guidance on installing PV solar panels and using solar energy, as well as learning more about government policies.

For Whom?

- Students (Diploma / B.E / B.Tech / M.E / M.Tech)
- Academician
- Industry personals

Course Take-away

- 100% practical training.
- Certificate holders have advantages in placement in various branches of industry.
- Also certificate is issued by GTU upon successful completion.



In 30 years, the average rooftop solar panel system can reduce pollution by <100 tons of carbon dioxide!

This means cleaner air for everyone on earth.

Topics Covered

- 1 Global overview of renewable energy development - The need for solar energy, benefits, application of solar energy - Solar energy basics and power generation systems.
- 2 Basic principles of solar energy - Manufacturing processes for photovoltaics - Use and handling of solar modules, energy storage, control and conversion.
- 3 Basic electrical system and operation of various electrical equipment - AC and DC Utility basics - Components of solar systems - Mechanical equipment and its operation - Equipment maintenance procedures.
- 4 Study of the site, planning and evaluation of the different parameters - Tools for the installation of the system.
- 5 Installation of solar modules - Ensuring safety measures - Ensuring protection of junction boxes and other safety measures - Fire resistance - Use of appropriate cables, plugs for electrical connection, spare fuses, etc.
- 6 Mounting the panels - Obtaining the desired voltage and current - Series and parallel connection - Visiting the nearest PV panel installation unit.

