

Two Day Workshop on ADVANCEMENTS AND CHALLENGES IN SOLAR PV TECHNOLOGIES: ENHANCING TECHNICAL PERFORMANCE FOR SUSTAINABILITY

1st - 2nd JULY 2025

अनुसंधान नेशनल रिसर्च फाउंडेशन
Anusandhan National Research Foundation



Sponsored by

**Anusandhan National Research
Foundation(ANRF)/SERB
Govt. of India**

Organized by

**Centre of Excellence for Electric
Vehicles and Related Technologies
Department of Electrical Engineering
DELHI TECHNOLOGICAL UNIVERSITY**
(Formerly Delhi College of Engineering)
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Principal Investigator

COURSE CONTENTS

Renowned experts from academia and industry will deliver expert talk on the following topics: -

Effect of meteorological parameters on Solar PV

Impact of external factors on the performance of Solar Modules and their mitigation techniques.

Effect of increased surface temperature and cooling techniques

Recycling challenges with PV Modules

Application of AI and Image processing in analyzing the performance of Solar PV Modules.

Some laboratory sessions and field visit will also be organized to explore scope for hands on experience and practical exposure to the participants.

PARTICIPATION

Two-day workshop on Advancements and Challenges in Solar PV Technologies: Enhancing Technical Performance for Sustainability from 1st July to 2nd July-2025 is open to faculties of nearby AICTE/UGC recognized colleges/ institutions and technical universities/deemed universities. The interested candidates are required to register using the link provided at the earliest but not later than 28th June, 2025. There are limited seats for the workshop and there are no registration charges for selected participants. The selected candidates will be communicated the workshop schedule in due course of time. The participants will not be paid TA/DA for attending the course. The workshop will be held at Department of Electrical Engineering, Delhi Technological University, Delhi, India.

OBJECTIVE OF THE COURSE

This workshop aims to impart the advancements and challenges in technologies for enhancing the technical performance of solar PV system to make it sustainable energy source for future power generation. This workshop is focusing on the keys to improving the energy efficiency of solar PV and managing the end-of-life issue, more specifically in materials recycling and reusing, is emerging in the recent era. This workshop uniquely combines the advanced computational analyses, experimental findings, and mitigation strategies for cooling, cleaning, and recycling, focusing on performance optimisation and sustainable end-of-life management of solar PV panels. The participants will be aware of practical insights and a detailed framework for enhancing solar PV technology and provide useful information to researchers, policymakers, and industry stakeholders to address the barriers to the rapid uptakes of PVs in a sustainable manner. Renowned academic and industrial specialists will share their knowledge with the participants.

RESOURCE PERSONS

The various sessions of the workshop will be preceded by faculty members of reputed academic institutions and expert from industries.

REGISTRATION LINK

<https://forms.gle/jW4SN-6rR6T6zUdTQ6>



ABOUT DTU

Delhi Technological University (DTU) established in 1941, has an illustrious history of providing quality education and promoting research and entrepreneurship for over eight decades. With 83 years of its long-established tradition of excellence in engineering and technology education, research and innovations, Delhi Technological University (formerly Delhi College of Engineering) caters the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge. The university currently offers 15 undergraduate, 30 postgraduate and Ph.D. programs. DTU has performed excellently in the incubation and entrepreneurial fronts. With the efforts of our IIF centre, over 50 companies have been incubated at DTU this year. With 14000 students on campus, the University is proud of its world class alumni, top placement in reputed companies, growing publications and citations.



About ANRF/SERB-SSR

In the knowledge- and technology-driven economy, the demand for human resources in science and technology is increasing to a great extent. Therefore, it is imperative to build the basis for continuous supply of human resources in science and technology. The concept of Scientific Social Responsibility (SSR) needs to be inculcated to connect our leading institutions to all stakeholders, including schools and colleges. SERB SSR policy intends to effectively utilize the R&D infrastructure and expertise of SERB grantee to benefit other S&T stakeholders and the society. This scheme also embeds a participatory, inclusive and sustainable culture of social responsibility among scientific research committee.

IMPORTANT DATES

- Last date for registration: **28th June 2025**
- Intimation to the shortlisted candidates through email on **29th June 2025**