



Three Months Certificate Programme
on

Solar Power



Organized by

Centre for Educational Technology

in collaboration with

Center for Intelligent Cyber Physical Systems (CICPS)

Indian Institute of Technology Guwahati

&

IIT Guwahati Technology Innovation and Development Foundation (IITG TIDF)



Programme Description:

This program is specifically designed for the servicemen / officers of the Indian Armed Forces seeking post-retirement resettlement. In order to facilitate a successful transition of the officers from the defence forces. The program seeks to equip them with skills, insights and vision to thrive professionally in Industry or entrepreneurial career.

To this end, the curriculum of this program has been crafted to introduce participants to the core concepts of solar power, it's use and exploration that will enable them to achieve the fundamental and foundational skills necessary to explore the drone sector in the country and contribute towards the development of future technologies.

The program will leverage IIT Guwahati's knowledge endowment and flagship pedagogies including the case-method. The servicemen from the armed forces already bring with them an extraordinary sense of discipline, leadership and professionalism which are key elements to hone new skills. This program will provide them with the requisite re-orientation, re-tooling and upskilling that is needed to succeed in the industry through a rigorous training in management education.

Key Components of the Programme:

Theory:

- ❖ Introduction to Solar Energy
- ❖ Solar Photovoltaic (PV) Technology and Power Systems Design
- ❖ Solar Inverter Technology and Battery Technologies
- ❖ Solar System Installation and Commissioning
- ❖ Solar Policies and Regulations and Solar Energy Economics
- ❖ Entrepreneur and Business ecosystem
- ❖ Thesis project and seminar

Labs and Hands-On Sessions

Labs:

- ❖ Lab – I: Solar Panel Testing and Performance Analysis
- ❖ Lab – II: Battery Technology and Energy Storage
- ❖ Lab – III: Monitoring and Control Systems
- ❖ Lab – IV: Environmental Impact Assessment

Tentative Course Start Date:

10 November 2025 – 30 January 2026

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