



## CSIR– NIIST Thiruvananthapuram

(Under CSIR, Ministry of Science & Technology, Govt. of India)

### **Dye-sensitized Solar cells: Fundamentals, Device Fabrication, Characterizations and Applications**



**Mode of Training:**  
Offline

**Schedule:**  
December 2022

**Duration:** 5 days

**No. of Seats:** 10

#### **Introduction**

Dye-sensitized solar cells (DSSCs) (often termed as Grätzel's solar cells) have been considered as one of the next generations based advanced photovoltaic devices, which do not keep an immense potential for electricity production at affordable cost but also provide unique opportunities from the perspective of building integrated photovoltaics (BIPV) applications as well as the power generation for IoT devices to be operated under low light intensity conditions indoors.

#### **Objectives**

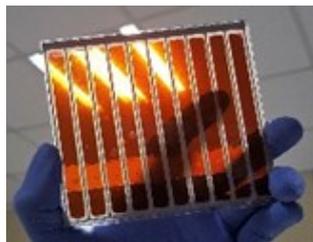
- \* provide an opportunity to get familiarized the concept and importance of DSSCs based photovoltaics .
- \* The course will be comprised of lectures, which will provide overview, theoretical background, operating principles and device characterization techniques.
- \* Hands on training for basic DSSCs characterizations such as J-V curve measurement of the DSSCs under full sun light of an artificial solar simulator and indoor PV measurements using artificial light sources.

#### **Eligibility**

Graduate/diploma holders in Science/Engineering

#### **Job Opportunities**

Renewable energy/ Photovoltaic related jobs in academics/industries



**Course Coordinator**  
Dr.Suraj Soman

**Course Fees:**  
Students: Rs.2,500/-  
Sponsored\*:Rs.5,000/-

**Apply online:**  
<http://sdp.niist.res.in>

**Payment through**  
**Bank Transfer**

The Director, CSIR-NIIST  
(Regional Research Laboratory)  
Account No: 67047723825  
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\*candidates sponsored by industries/ research organization/ colleges

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