



ADITYA UNIVERSITY



An Online Certification Course on

“Harnessing the Sun: Advanced Photovoltaic Engineering with Semiconductor Materials”

Organized by

Aditya Learning Academy

(Centre for Teaching & Learning)

in association with

Dept. of ECE

Programme Details:



08/09/2025
to 13/09/2025
Duration: **1 week**



6.00 pm
to 7.30 pm

Who can join:

Students, Faculty, Industry Persons &
Research Scholars

Certificate awarded with 75% attendance and 60% exam score.



Click on the Registration link

<https://forms.gle/kH1xAVZFBQb4tbXj59>

Resource Person
Dr. Jagatpati Raiguru
Asst. Prof. Dept. of ECE
Aditya University.

Registration Fee:

₹ 100/-

Scan to Register



Account Details for Registration :

Beneficiary Name : **Aditya University**
Account No : **120028094544**
IFSC Code : **CNRB0013268**
Bank Name : **Canara Bank**
Branch : **Surampalem**

Contact :

Dr. I. Veeranjanyulu
Coordinator ALA, Aditya University,
ala@adityauniversity.in

Dr. P. Vijaya Kumar
Assoc. Professor in ECE
Ph: 9391297597

www.adityauniversity.in
Aditya Nagar, ADB Road, Surampalem - 533 437, Kakinada Dist, AP. India.

Follow us now



PROGRAMME SCHEDULE

Date	Topics Covered
08/09/2025	Review of Semiconductor Physics, Charge carrier generation and recombination, P-N junction model and depletion capacitance, Current voltage characteristics in dark and light.
09/09/2025	Device Physics of Solar Cells, Principle of solar energy conversion, Conversion efficiency, Single, tandem multi-junction solar cells.
10/09/2025	Crystalline silicon and III-V solar cells, Thin film solar cells: Amorphous silicon, Quantum Dot solar cells.
11/09/2025	Introduction to Dye Sensitized Solar Cells, Fabrication of Dye Sensitized Solar Cells.
12/09/2025	Introduction to Organic Solar Cells, Physics of Bulk Heterojunction(BHJ) Solar Cells, Morphology and charge separation in BHJ.
13/09/2025	Nanomaterials for photovoltaics, PV panels with nanostructures, Band gap engineering and optical engineering.