

Tapping the Sun's Solar Energy for electricity needs of mankind

[Understanding and Awareness (not limited to technicians/engineers/scientists!!) and Interactions with Photovoltaic Industry Professionals/Entrepreneurs]

Objectives of the Programme (2 Days)

- A Solar Photovoltaic Energy related programme will bring together faculty/staff from all domains in Symbiosis to gain knowledge and visual experience of solar products.
- The purpose of the workshop is to get acquainted with photovoltaic technology (as Green and Clean Renewable Energy) and future scope (Govt. Encouraging schemes) for self initialization/implementation or to educate others.
- To gain clarity and to remove misconceptions and confusions about solar energy technology.

Workshop Highlights

- Faculty and staffs can acquire knowledge about solar photovoltaics basics and for its integration with system to harness Sun's energy.
- Interaction with industry professionals with some low power product demos will create awareness in faculty about solar energy,
- As the FDP would not be limited to only Technical/Engineering streams there might be fair opportunities of getting interdepartmental/inter-institutional or cross institutional research/idea initiations

Workshop Objectives:

At the end of the FDP, participants would be able:

- to know how to design low power solar dc system (solar energy calculations by knowing consumption parameters-no special mathematical knowledge require)
- to acquire basic knowledge require to size a roof-top solar power plant
- to know about Government's schemes and policies for clean and green solar energy technology.

Topics to be covered/ details of the contents

- Sun is the ultimate power, the ultimate source of energy and the ultimate reason for life on earth, Sun's facts, Recent Renewable Energy scenario across world and in India and India's Government new Dynamic Approach-mainly in Solar based Renewable Technologies.
- Solar Energy Knowhow
- Misconception and Clarity on Solar Photovoltaic and Solar Thermal
- Solar Photovoltaics (Physics to Engineering)- not limited to TechnoScies
- Visual experience on Solar Photovoltaic low power devices/products in systems
- Solar PV power plant visit (at SIT Terrace in Lavale Campus) and balance of system (BOS) explanation
- Invited speaker talk from well-established Solar PV system company A Engineers/officials/Entrepreneurs

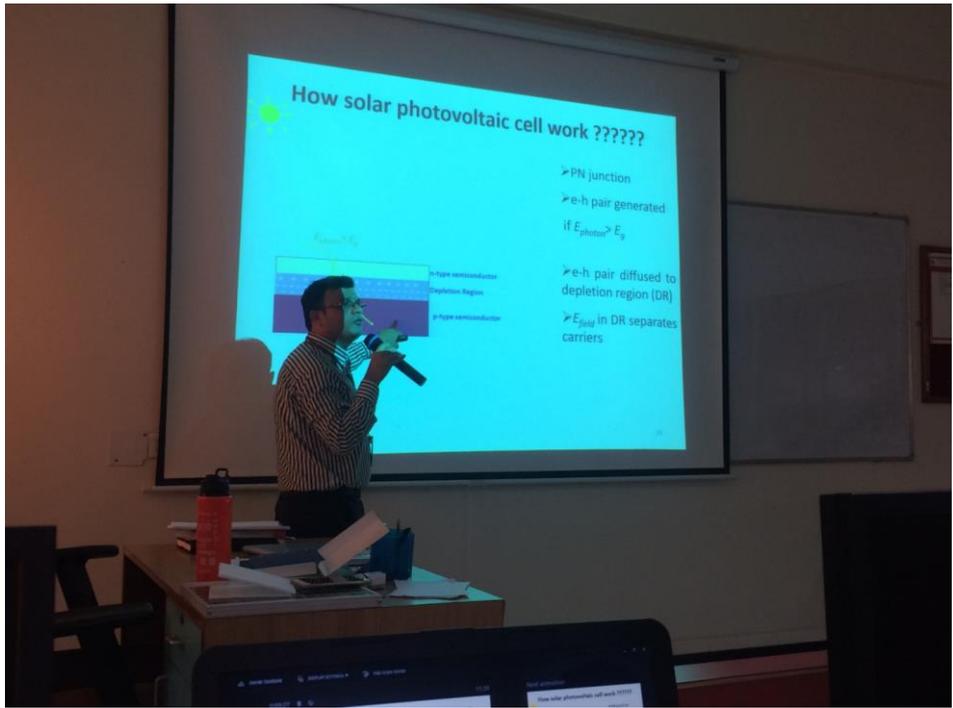
- Solar PV product specific Q&As, active interaction between faculties/researchers and company engineers
- Hands-on to low power (domestic) products and demonstration

Learning outcomes

After completion of this workshop the participant will get knowledge of working of solar photovoltaic technology, its principals, different equipment/devices require for harnessing sunlight to get electricity. Site visit and product visual demo will also make participants well-verse with solar energy concepts, technology and domestic use for their homes.



Solar FDP Day 1- Dr Paresh Nasikkar (Asst. Prof., SIT): Resource person



Solar FDP Day 1- Dr Paresh Nasikkar (Asst. Prof., SIT): Explanation about solar photovoltaic cell working principle



Solar FDP Day 1- Outdoor Solar PV parameters measurements [SIT terrace]



Solar FDP Day2:- Resource person Mr Rohan from Vistaar (Solar) Electronics Pune (Left) with Dr Akshay Malhotra (Deputy Director, SIT) (Centre) and Dr Paresh Nasikkar (Asst. Prof., SIT) (Right)



Solar FDP Day2:- Solar PV FDP participants and Industry resource person Mr Amey (first row, third from right) from Renutron Power Solutions India Pvt.Ltd (Solar Div.).