



**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL**

Approved by : All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,
Recognised by : Directorate of Technical Education, Govt. of Maharashtra, Affiliated to : University of Mumbai.

- SCHOOL OF ENGINEERING & TECHNOLOGY
- SCHOOL OF PHARMACY
- SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

Three Days Workshop on Solar System Design

School/Department: SoET Electrical & Computer Engineering Department
16 October 2024

Name of resource person:	Prof. Sameer Shaikh, Prof. Shradha Kumawat
Designation:	Assistant Professor
Date of Workshop:	28, 29 Sept 2024 & 5 Oct 2024.
Title of Lecture:	Workshop On Solar System Design.
Organised by :	AIKTC, New Panvel
Target audience:	SE,TE,BE Students

DETAILS OF WORKSHOP:

On 28, 29 Sept 2024 & 5 Oct 2024 a three days' workshop was conducted on Solar Design (on field and Pvsyst). The aim of the workshop was to provide participants with comprehensive understanding of solar energy fundamentals, system design principles and hands-on experience with Pvsyst, a leading software used for Pv system simulation and design. The workshop was structured to progressively build participants knowledge and skills enabling them to design and evaluate solar systems effectively.

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ACCREDITED BY NAAC & CERTIFIED BY ISO 9001:2015

Collaboration of IEI Students' Chapter and Department of Electrical & Computer Engineering Organize 3 Days Workshop on Solar System Design

DAY	DATE	TIME
FRI	SEPT 27	10am
SAT	SEPT 28	10am
SAT	OCT 05	10am

Speakers Name

Prof. Sameer Shaikh
Assistant Professor

Prof. Shradha Kumawat
Assistant Professor

Navi Mumbai, Maharashtra, India
Sai View CHS, Plot No. 82 & 83 Sector 17, Khandeshwar Station Road, Malha Khande, Greater Khande, Panvel, Navi Mumbai, Maharashtra 410206, India
Lat 19.00531°
Long 73.10309°
27/09/24 10:43 AM GMT +0530

Innovative Teaching - Exuberant Learning
Vision : To be the most sought after academic, research and practice based department of Electrical Engineering that others would wish to emulate.



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Outcome of Workshop:

- Enhanced understanding of Solar Energy and Photovoltaic Systems.
- Hands-On Experience with Pvsyst software.
- Practical implementation of solar projects.

Key Takeaways of Workshop:

- Practical Experience
- Economic analysis
- Environmental analysis
- Independently design assesses solar PV system with detailed report.

Dr. Afzal Shaikh
HOD, EE

Dr. Rajendra Magar
Dean, SoET

Dr. Ramjan Khatik
Director

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Syllabus:

Sr. No	SYLLABUS FOR SOLAR TRAINING	Date	Time
1	why solar is the future	28 Sept 2024	9:30 TO 11 AM
2	job opportunities		
3	V-I Characteristics of a PV Panel		Tea Break
4	Different Connections of Solar Panels		11:15 TO 1:15 AM
5	Shading and Half Cut Cells		
6	Mounting and Tilt Angle of a PV Panel		
7	Calculation of the Tilt Angle in a Location	29 Sept 2024	9:30 TO 11 AM
8	Practical Tilt Angle during Different Seasons		
9	Orientation and Azimuth Angle of Solar Panels		Tea Break
10	Sun Chart and Distance between PV Rows		11:15 TO 1:15 AM
11	Important Note Regarding the Sun Chart		
12	Panel Parameters and Measurements		
13	Junction Box in PV Panels	05 Sept 2024	9:30 TO 11 AM
14	Solar Wires and Cables Installation Process		
15	PV String Maximum Voltage		Tea Break
16	Important Definitions in the Global Solar Atlas		11:15 TO 1:15 AM
17	Global Solar Atlas PV Simulation		
18	Hybrid Photovoltaic Thermal Panel (PVT)		



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Students Registered for This Workshop:

NAME OF THE STUDENT	ROLL NO	CLASS
Shaikh Mohd Zaid Mohd Zahid	23EE17	SE
Khan Sahil Abdul Kalam	23EE06	SE
Minhaj Mansoor Pangarkar	23EE13	SE
Hamza Shaikh	23EE16	SE
Mohammed Hassaan Faiz Ahmed Mulla	23EE11	SE
Malik Nasir Naushad Ahmed	22EE24	SE
Mohammed Masood Ahmed Kadiri	23EE02	SE
Shaikh Mohd. Danish	22EE32	SE
Suraj Sahu	23EE14	SE
Shaikh Rehan Laik Ahmed	23EE18	SE
Mohammad Adil	23EE09	SE
Sakkaf Zainul Abiddin Sayed Zafar	23EE15	SE
Saim Zahoor Fame	22EE18	SE
Muhammad Abutalib	23EE10	SE
Shah Alam Mohammed Navee Aas	24DEE15	BE
Amaan Hamid Ainarkar	22EE05	SE
Taib Atique Fakhi	22EE17	SE
Dnyaneshwar Jadhav	23DEE08	SE
Abdul Aziz Habib Shaikh	223DEE19	TE
NOAMAN ARSHAD ALI QURESHI	23DEE16	TE
Zaid Naim Baig Mirza	22DEE10	BE