



# Netaji Subhas Institute of Technology

Approved by AICTE and Affiliated to AKU, Patna

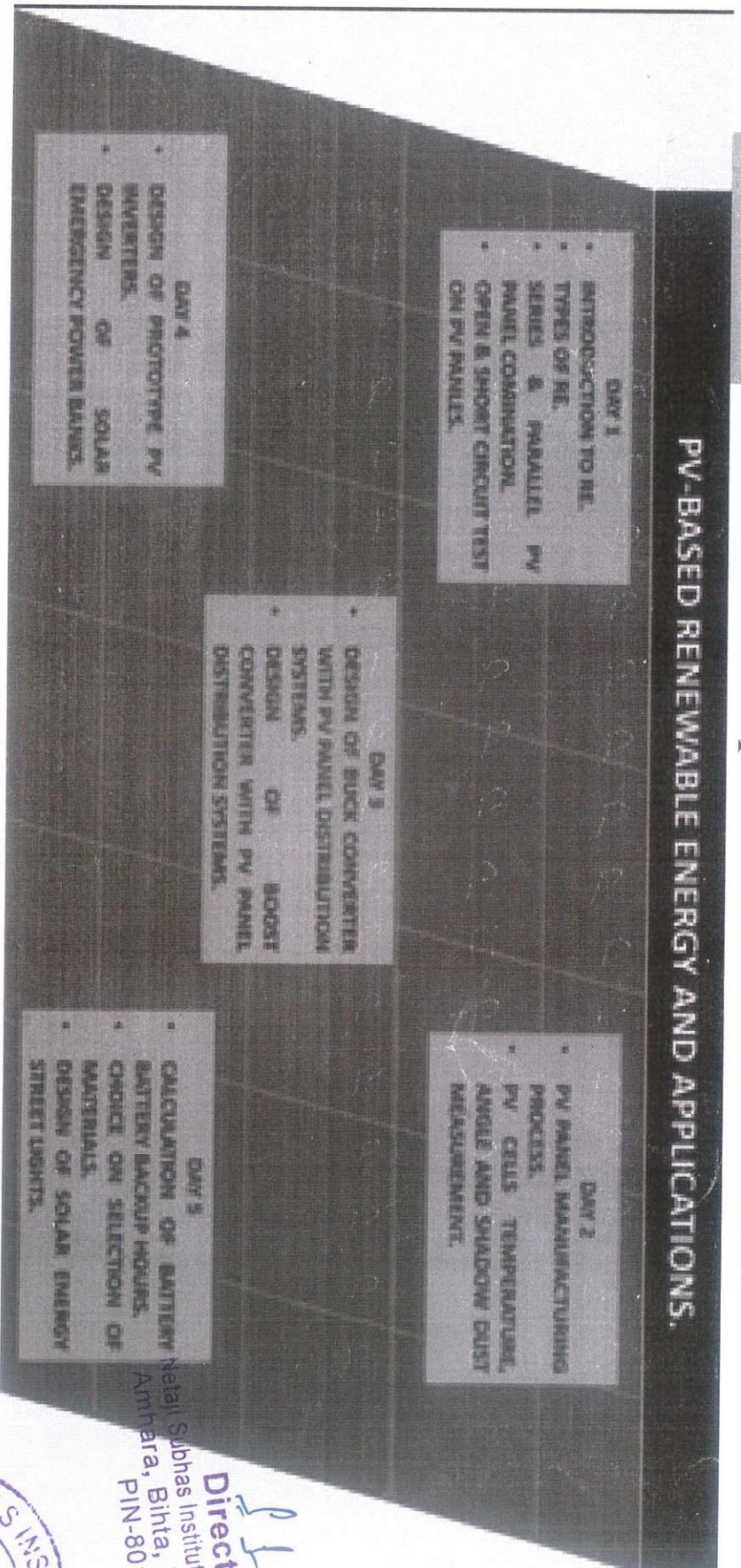
Organized by Electrical and Electronics Engg.


*One week workshop on PV Based Renewable Energy and its Applications*

**Date: 16<sup>th</sup> April 2023 to 21<sup>st</sup> April 2023**

**PV-BASED RENEWABLE ENERGY AND APPLICATIONS.**

## Workshop Modules:



  
**Director**  
Netaji Subhas Institute of Technology  
Anihara, Bihta, Patna, Bihar  
PIN-801106

### Coordinators

Mr. Ritesh Kumar, HOD EEE, NSIT

Mr. Deepak Kumar, EEE, NSIT

### Convener

Dr. J. Dalei

Dean Academic, NSIT

### Resource Person

Mathan Kumar M

Director, PLC, Trichy





# NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

APPROVED BY AICTE, NEW DELHI AND DEPT OF SCIENCE & TECHNOLOGY, GOVT. OF BIHAR  
AFFILIATED TO BIHAR ENGINEERING UNIVERSITY, PATNA  
AMHARA, BIHTA, PATNA-801106

Date:-10-04-2023

## Notice

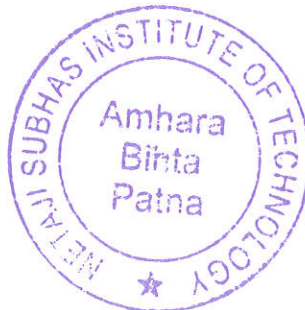
All 3<sup>rd</sup> and 5<sup>th</sup> Semester students of Electrical and Electronics Department are here by informed that workshop on “ **PV Based Renewable Energy and its Applications**” is going to be organized by EEE Department in association with “**Power Integrated Solutions, Tamilnadu** ” from 16<sup>th</sup> April 2023 to 21<sup>st</sup> April 2023. The interested student should register their name on or before 13<sup>th</sup> April, 2023.

(HOD, EEE Department)

**Head of Department**  
Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology

Copy to:

1. Dean, NSIT
2. Notice Board



**Director**  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801106

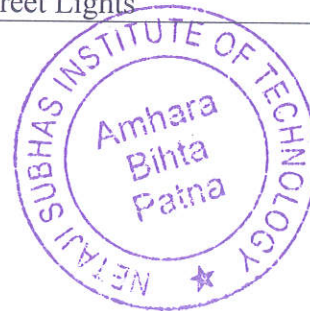
# NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Electrical & Electronics Engineering

Session 2022-23

## PV-Based Renewable Energy and Applications

Day	Topic Covered
1	Introduction to RE
	Types of RE
	Series and Parallel PV Panel combination
	Open and Short circuit Test on PV panel
2	PV Panel Manufacturing Process
	PV Cells temperature angle and shadow dust measurement
3	Design of Buck Converter with PV Panel distribution systems
	Design of Boost Converter with PV panel distribution Systems
4	Design of Prototype Inverter
	Design of Solar Emergency Power Banks
5	Calculation of Battery backup Hours
	Choice of selection of Material
	Design of Solar Energy street Lights



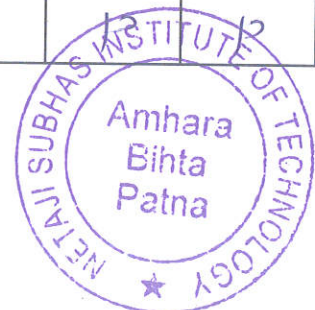
*J. Singh*  
Director  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801106

*[Signature]*

**NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA**  
**Session 2022-23**  
**Workshop Course on “ PV-Based Renewable Energy and Applications”**  
**Attendance Sheet**

Sr.No	Name of Student	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
1	TARA KANT MANI	P	P	P	P	P	P
2	KHUSHI	P	P	P	P	P	P
3	UDIT RAJ	P	P	P	P	P	P
4	ANUP KUMAR	P	P	P	P	P	P
5	ASHISH RAJ	P	P	P	P	P	P
6	RAJA KUMAR	P	P	P	P	P	P
7	ABHISHEK KUMAR YADAV	P	P	P	P	P	P
8	PRIYA KUMARI	P	P	P	P	P	P
9	LAKSHMI MINJ	P	P	P	P	A	P
10	SAURAV KUMAR	P	P	P	P	P	P
11	ABHISHEK RAJAN	P	A	P	P	P	P
12	ANAND RAJ BHARTI	P	P	P	P	P	P
13	RASHID MAHBOOB	P	P	P	P	P	P
14	MOHAMMAD MUZAMMIL	P	P	P	P	P	P
15	SONU KUMAR	P	P	P	P	P	P
16	SURYA KANT	P	P	A	P	P	P
17	SOHANI SHARAN	P	P	P	P	P	P

  
**Director**  
 Netaji Subhas Institute of Technology  
 Amhara, Bihta, Patna, Bihar  
 PIN-801106







Sl.No: NSIT/B.tech/2023

## NETAJI SUBHAS INSTITUTE OF TECHNOLOGY (NSIT)

Approved By All India Council for Technical Education (AICTE), New Delhi

(Affiliated to Bihar Engineering University, Patna)

Amhara, Bihta, Patna-801118 (Bihar)



### Certificate of Participation

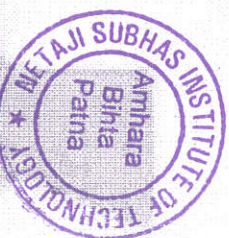
This is to certify that Mr./Ms. Priya Kumari.....  
Reg.No.....20110103009..... has successfully completed the one  
week workshop/Seminar in "PV Based Renewable Energy and its  
Application" conducted by the Department of Electrical & Electronics  
Engineering at **Netaji Subhas Institute of Technology, Bihta Patna**  
in association with **Power Integrated Solutions, Trichy** held from  
16<sup>th</sup> April to 21<sup>st</sup> April 2023.

Date: 21/04/2023



**HOD**  
EEE, NSIT

*[Signature]*  
**Director**  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801106



**Director**  
NSIT

*[Signature]*



Sl.No: NSIT/B.tech12023

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Date: 21/04/2023

  
**Director**  
Power Integrated Solutions

  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna-801118  
**Director**

  
Amhara  
Bihta  
Patna

  
**Director**  
NSIT