Value Added Course

Course Details:

Name of the Course: - Solar Energy

Course Code – EEO1

Course Offered to - EE & ECE

Course Duration — 36 Hours

Course Coordinator: -Mr. Pankaj Tripathi

OBJECTIVE:

The entire objective of workshop is to setup a comprehensive capacity — building mechanism for professionals entering or established in the solar photovoltaic power sector. Purpose of the workshop was to provide cutting edge education to transform professionals into 'Solar' professionals. The idea was, not only provide room for perceptive thinking but also to make the professionals employ these skills in their respective work domains, The curriculum had been carefully crafted to make the technical, theoretical and practical ends meet. With the testimonies and feedbacks we have been able to evolve and set new benchmarks and achieve new heights in content development and course delivery,

PRE-REQUISITE(s):

Basic Knowledge of Solar cell.

OVERVIEW:

Solar energy is generated by nu clear reactions within the bod y o f the sun. This energy reaches the surface of the earth in the form of electromagnetic radiation. The amount of energy carried by solar radiation is normally expressed in terms of the solar constant which measures the quantity of solar energy passing through one square meter of s pace perpendicular to the direction of t ravel of the radiation at the average distance of the earth from the sun. According to the World Energy Council, the value of this constant is 1367 W/m². When absorption and scattering are taken into account, the total solar flux reaching the surface of the earth is estimated to be 1.08 xl 08 GW and the total amount of energy reaching the surface of the earth each year is 3,400,000 EL This is between 7000 and 8000 times annual global primary energy consumption. If O. I % of this energy was converted into electricity with 10% efficiency; it would provide an equivalent of a round 1 GW of generating capacity. The global total is around 6000 GW.

Why take this course?

- Make educated decisions for implementing solar photovoltaic power projects
- Access site potential and suitability for establishing a plant
- Selection of Various PV Modules, Inverter and other Technologies
- Appreciate the details for installing a solar power plant
- Theoretically deduce the plant performance and output and ensures best practices in terms of safety and quality

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What you will learn in this course:

Learn and Build a project on Solar and Smart Energy using Embedded System in this course. This includes practical exposure to solar energy production along with the real-life application of charging a battery. Students also learn the concepts of Smart energy and other industry trends like green energy, smart building, smart grid and energy harvesting technologies. In today's time it's a need to switch to reneweable energy sources to save our climate, save non-renewable energy, reduce pollution, money saving etc. In this workshop student will I earn about the benefits of renewable sources like Solar Energy with practical exposure on how to use solar energy and convert it to smart energy with some real time projects.

Who this course is for:

To help participants learn about the efficient use of electrical energy, a prototype Smart Traffic Control System is executed as project outcome

To practical exposure of solar energy production along with real-life application of charging mobile devices

Course Outline

	Topic	No. of hours allocated
Module I	Introductory	6
Module 2	Solar Radiation Basics and Measurement	6
Module 3	PV System Concept and Components	6
Module 4	PV System Design	6
Module 5	Advance Topics	6
Module 6	Troubleshooting of PV systems Safety	6

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Department of Electrical Engineering

15 -Jan -2021

CIRCULAR

VALUE ADDED COURSE (Solar Energy) - B.Tech. EE/EC

Students of B.Tech. (EE/EC) all years are hereby informed that value added course "Solar Energy" is scheduled from 1 February 2021 in your respective classroom, Academic Block-II.

Schedule:

• Time Slot: 03:00 PM to 05:00 PM

Key Speaker: Prof. G N Tiwari

• Duration: 2 hrs

Program Overview:

The entire objective of workshop is to setup a comprehensive capacity — building mechanism for professionals entering or established in the solar photovoltaic power sector. Purpose of the workshop was to provide cutting edge education to transform professionals into 'Solar' professionals. The idea was, not only provide room for perceptive thinking but also to make the professionals employ these skills in their respective work domains, The curriculum had been carefully crafted to make the technical, theoretical and practical ends meet. With the testimonies and feedbacks we have been able to evolve and set new benchmarks and achieve new heights in content development and course delivery.

Mr. Mon Prakash Upadhyay

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VALUE ADDED COURSE

(Solar Energy)



Program:-B.TECH.



03:00 PM TO 05:00 PM





KEY SPEAKER:

Prof. G N Tiwari

Registrar Invertis University Bareilly

MR. MON PRAKASH UPADHYAY HOD:



PROGRAM OVERVIEW:

comprehensive capacity — building mechanism for professionals entering or established in the solar photovoltaic power sector. Purpose of the workshop was provide cutting edge education to transform professionals into 'Solar' professionals. The idea was, not only provide room for perceptive thinking but also to make the professionals employ these skills in their respective work domains, The curriculum ha d been carefully crafted to make the technical, theoretical and practical ends meet. With the testimonies and feedbacks achieve new heights in content development and course we have been able to evolve and set new benchmarks and The entire objective of workshop is to setup





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ATTENDANCE SHEET (VALUE ADDED COURSE)

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms. <u>MANMOHAN MISHRA</u> of Program <u>B.TECH. EC/EE</u> Year/Semester <u>III YEAR</u>
for successfully completing a value added course
SOLAR ENERGY
consider Department of ELECTRICAL ENGINEERING
during 01 February 2021-25 February 2021
during of February 2022

Head of the Department

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Registrar Invertis University Bareilly

Course Coordinator

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	NIKETAN SAGAR					
of Program B.TECH. EC/EE Year/Semester	II YEAR					
for successfully completing a value added course						
SOLAR ENERGY						
offered by Department of ELECTRICAL	ENGINEERING					
during 01 February 2021-25 February	2021					
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Course Coordinator

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This Certificate is awarded to Mr./Ms.	RITENDRA SINGH			
of Program B.TECH. EC/EE Year/Semes	ster III YEAR			
for successfully completing a value added course				
SOLAR ENERGY				
offered by Department of ELECTI	RICAL ENGINEERING			
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This Certificate is awarded to Mr./Ms. SYED SAAD ALI				
of Program B.TECH. EC/EE Year/Semester III YEAR				
for successfully completing a value added course				
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This Certificate is awarded to Mr./Ms. PAWAN PRATAP SINGH				
of Program B.TECH. EC/EE Year/Semester III YEAR				
for successfully completing a value added course				
SOLAR ENERGY				
offered by Department of ELECTRICAL ENGINEERING				
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This Certificate is awarded	to Mr./Ms. TRIMENDRA YADAV
of Program B.TECH. EC/EE	Year/Semester III YEAR
for successfully completing	g a value added course
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offered by Department of	ELECTRICAL ENGINEERING
during 01 February 2021	-25 Februray 2021
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This Certificate is awarded to of Program B.TECH. EC/EE Yes	Mr./Ms. NADEEM AHMAD ar/Semester III YEAR
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This Certificate is awarded	to Mr./Ms. SUYASH GOUR
of Program B.TECH. EC/EE	Year/Semester III YEAR
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This Certificate is awarded to Mr./Ms. of Program B.TECH. EC/EE Year/Semes for successfully completing a value a SOLAR ENERGY	ster <u>III YEAR</u> added course
offered by Department of ELECTR	RICAL ENGINEERING
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This Certificate is awarded	to Mr./Ms. NEHA JAISWAL
of Program B.TECH. EC/EE	
for successfully completing	g a value added course
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during 01 February 2021-25 February 2021	

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offered by Department of	ELECTRICAL ENGINEERING
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This Certificate is awarded to	Mr./Ms. MOHD HASSAN BEG	
of Program_B.TECH. EC/EE_Yea	ar/Semester <u>IV YEAR</u>	
for successfully completing a		
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offered by Department of	ELECTRICAL ENGINEERING	
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This Certificate is awarded to	o Mr./Ms. <u>VIVEK KUMAR TIWARI</u>	
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This Certificate is awarded to	Mr./Ms. <u>EKLAVYA YADAV</u>
of Program B.TECH. EC/EE Year	ar/Semester IV YEAR
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This Certificate is awarded to Mr./Ms	REHAN AHMED	
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Course Coordinator

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to of Program B.TECH. EC/EE Yea	Mr./Ms. AFTAB KHAN r/Semester IV YEAR
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Head of the Department	Course Coordinator
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during 01 February 2021 - 25 Head of the Department	February 2021 Course Coordinator	

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of Program B.TECH. EC/EE Year/Semester	IV YEAR	
for successfully completing a value added	l course	
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during 01 February 2021 - 25 February 2021	
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Head of the Department

Course Coordinator

Faculty of Engineering & Technology Invertis University Barcilly 20123 UP

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Rareilly



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./	Ms. MOHD ALYASA KHAN	
of Program B. TECH. EC/EE Year/Se	mester IV YFAR	
for successfully completing a value	ie added course	
SOLAR ENERGY		
offered by Department of ELE	CTRICAL ENGINEERING	
during 01 February 2021 - 25 February 2021		

Head of the Department

Course Coordinator

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Faculty of Engineering & Technology Invertis 11/2 (278ity Harvilly 241123, UP Registral Invertis University

Bareilly



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded t	o Mr./Ms. <u>SHADAN ALI AHMED</u>	
of Program B.TECH. EC/EE Y	ear/Semester IV YEAR	
for successfully completing		
SOLAR ENERGY		
offered by Department of	ELECTRICAL ENGINEERING	
during 01 February 2021-	25 February 2021	
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Head of the Department

Course Coordinator

Head ECE!

Paculty of Engineering & Technology Invertis University Harcilly-2, 123, UP

Registrar Invertis University Bareilly



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./of Program B.TECH. EC/EE Year/Se for successfully completing a value SOLAR ENERGY	mester IV YEAR ue added course	
offered by Department of ELE	CTRICAL ENGINEERING	
during 01 February 2021- 25 February 2021		
Head of the Department	Course Coordinator	

Facility of Engineering & Technology Invertis University

Bomille 24425 UP

Registrar

Bareilly

Invertis University

Head ECE/EF.
Department of ECE/EF.



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms. MUKUL KUMAR CHANDR	A	
of Program B.TECH. EC/EE Year/Semester IV YEAR		
for successfully completing a value added course		
SOLAR ENERGY		
offered by Department of ELECTRICAL ENGINEERING		
during 01 February 2021 - 25 February 2021		

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Course Coordinator

Faculty of Engineering & Technology

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	RAGHAV SHARMA	
of Program B.TECH. EC/EE Year/Semester	IV YEAR	
for successfully completing a value added	d course	
SOLAR ENERGY		
offered by Department of ELECTRICAL		
during 01 February 2021 - 25 February	7 2021	

Head of the Department

Course Coordinator

Head ECEITE

Dean Dean Inches

Invertis University

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to	Mr./Ms. ABHISHEK CHAUHAN	
of Program B.TECH. EC/EE Ye	ear/Semester IV YEAR	
for successfully completing	a value added course	
SOLAR ENERGY		
offered by Department of	ELECTRICAL ENGINEERING	
during 01 February 2021 - 25 February 2021		
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Head of the Department

Course Coordinator

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to M	r./Ms. DAKSH LODHI
of Program B.TECH. EC/EE Year/	
for successfully completing a v	value added course
SOLAR ENERGY	
offered by Department of E	LECTRICAL ENGINEERING
during 01 February 2021-25 February 2021	
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Course Coordinator

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Faculty of Engineering & Technology Invertis University, Harvilly 243123, 035 Registrar Invertis Universii. Bareilly



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to	Mr./Ms. ASHISH GOUR
of Program B.TECH. EC/EE Ye	ar/Semester IV YEAR
for successfully completing a value added course	
SOLAR ENERGY	
offered by Department of	ELECTRICAL ENGINEERING
during 01 February 2021-25 February 2021	
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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded t	to Mr./Ms.	GIRISH KUMAR MAURYA
of Program B.TECH. EC/EE Y	ear/Semest	er <u>II YEAR</u>
for successfully completing a value added course		
SOLAR ENERGY		
offered by Department of	ELECTRI	CAL ENGINEERING
during 01 February 2021-25 February 2021		

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to l	Mr./Ms. <u>TARUN SHARMA</u>
of Program B.TECH. EC/EE Year	r/Semester II YEAR
for successfully completing a value added course	
SOLAR ENERGY	
offered by Department of ELECTRICAL ENGINEERING	
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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded t	to Mr./Ms.	SAVISTA	
of Program B.TECH. EC/EE Y		II YEAR	
for successfully completing		course	_
SOLAR ENERGY			
offered by Department of	ELECTRICAL	ENGINEERING	_
during 01 February 2021-25 February 2021			
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CERTIFICATE OF VALUE ADDED COURSE

of Program B.TECH. EC/EE Y	to Mr./Ms. <u>GAUTAM VISHWAKARMA</u> Year/Semester <u>IV YEAR</u>
for successfully completing a value added course SOLAR ENERGY	
offered by Department of	ELECTRICAL ENGINFERING
during 01 February 2021 - 25 February 2021	
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