



**NATIONAL PRODUCTIVITY COUNCIL (NPC)
IN ASSOCIATION WITH
GREATER NOIDA INSTITUTE OF TECHNOLOGY (IPU CAMPUS)
& JP CONSULTANTS**



**GREATER NOIDA
INSTITUTE OF TECHNOLOGY**
GGSIPU - ENGINEERING INSTITUTE
COLLEGE CODE : 272
(Approved by AICTE & Affiliated to Guru Gobind Singh
Indraprastha University, New Delhi)

**E- TRAINING
ON
“SOLAR PV DESIGN & BUSINESS MODEL FOR COMMERCIALISATION”**

Registration Fee :- Rs 1000/- (Including GST)

**27.10.2020 TO 31.10.2020
3 PM TO 5 PM**

Sponsored By



**COURSE COORDINATOR: -
JITENDRA KUMAR SRIVASTAVA,
ASSISTANT DIRECTOR (ENERGY MANAGEMENT)
NATIONAL PRODUCTIVITY COUNCIL, DELHI
JK.SRIVASTAVA@NPCINDIA.GOV.IN**

Expert Instructors



Colonel SP Saini graduated from, NIT, Kurukshetra in Elect. Engg . & did Post Graduation in Guidance & Control Systems from Defence University, Pune. While serving in Army, he worked on development of Missile Systems at DRDO, Hyderabad and on Electronics Intelligence Project in association with IIT, Delhi & HAL, Hyderabad. He won awards from ,National Research & Design Forum of Institution of Engineers (I), Bangalore, National Research & Development Corpn. New Delhi, Indian Army (For Counter Insurgency Operations in J&K), Institution of Engineers (I), Haryana State Centre, Kurukshetra & National Productivity Council, New Delhi. He has installed number of Solar PV Plants at Greater Noida. At present he is **Prof in Deptt. Of Electronics & Communication Engg. (IPU Campus),** GNIOT, Greater Noida & Consultant for Solar Energy.



Passionate about spreading the green, **Mr. J.P. Singh**, is an engineering graduate working as an environmentalist to create awareness for the adoption of Blue solar energy. He is the **founder of J.P. Consultants**, a solar consulting firm for implementing solar power plant. More than 11 years of experience in national and international projects. Through 3MWp projects, he has been able to serve for the reduction of 78000 metric tonnes of carbon reduction which is equivalent to the planting of 2, 10,000 trees .

Passionate for writing and speaking, he has spoken at various prestigious platforms and many of his articles are published in leading Solar Magazines and media like NDTV, ET energy world, Mercom Communications, EQ internationals, Renewable Mirror, etc. He has spoken at many prestigious platforms like the Indian Institute of Architecture, Griha, FSAI, Industrial energy Show ,Toastmasters, etc. He believes that it is the need of the hour to create a bluesolar revolution to save the mother earth from Global warming.

Course Coverage

Date/Time (3 PM to 5 PM)		Coverage	
27.10.2020	3 PM to 5 PM	Basic Introduction & Why Solar	Why Solar is The Future,What are the Job Opportunities,How to get most out of this course,What is a Solar System,Types of Solar Systems (Solar PV and Solar thermal),Components of Solar PV system,How does solar system works,Off Grid and On Grid Technology,Tyeps of Solar Panels (Mono Cryst, Poly Cryst)
28.10.2020		Design Aspects of Solar Power	Know the Sun before harvesting it,Irradiance, Peak hours and Solar yield curve,Need of Shadow Analysis,Tilt angle selection of your solar panel,Need of Structure Analysis,Step wise design approach for the Solar Plants
29.10.2020		Designing of a Solar Plant Practical Example	Step wise Design implementation,Layout preparation,Energy consumption calculations,Energy generation calculations,Savings calculations from Solar plant,Solar Plant at NPC, Delhi,What is Net Metering,What is the meaning of import and export in Solar bills,How to read a Solar Bill
30.10.2020		Financial Modelling and Return on Investment calculations	Different types of financial models available for solar plants,Comparative of different financial models,Commercial benefiots of the Solar plants,Calculating ROI for a solar plant
31.10.2020		How to Ensure optimum harvesting from Solar plants	impact of non monitoring of the solar panels,Warranty and Guarantee of the Components,Monitoring needs of the Solar plants,Impact of non claening on solar panels,Maintenance needs of the Solar Plants, quiz , concluding remarks & supplier presentation.