Objective: This course aims in a better understanding in Solar Energy Technologies for an individual to become an entrepreneur. To know the Scope and Business Opportunities in Solar Photovoltaic, Solar Thermal and Solar Water Pumping Technologies in general. The detail study of Different types of Companies, Compliance Mechanism with Ministry of Corporate Affairs, GST rules, Tax payments, Tax Breaks, etc.

Mode of Training: Online lectures etc.

Target Audience: Graduate; Graduate Engineers; Students; Existing and Prospective Solar Entrepreneurs; EPC Contractors; etc.

Total Duration: 3 Days
Full Course Fees: Rs 2000 + GST (18%) = Rs 2360/-
Number of Seats: 100
Date of Starting: 28-30 September 2020, 23-25 November 2020, 8-10 February 2021 and 28-31 March, 2021
Last date of receiving the application at NISE: Before 2 days starting of the training program courses.

How to Apply: Contact Person: Dr. Vikrant Sharma, Dy. Director and Ms. Pooja Sharma, Consultant from NISE
Payment Submission Link: http://training.nise.res.in/ (After Making the payment, submit your payment details on the link)
For Payment/Accounts: Mr. Himanshu, Accounts Phone No.: 0124-2853049
Email-ID: startups.nise@gmail.com
Contact: +91-9999725683; 0124-2853035; 0124-2853039
ONLINE TRAINING ON PROSPECTS FOR START-UPS IN SOLAR ENERGY TECHNOLOGIES (3 Days)

Date: 28th – 30th September, 2020

National Institute of Solar Energy
Gwal Pahari, Gurugram- Faridabad Road,
Gurugram, Haryana - 122003
Background

India is endowed with vast solar energy potential about 5,000 trillion kWh per year energy is incident over land area with most parts receiving 3-5 kWh per sq.m per day. The government of India has a committed target of 100 GW of Solar Installations by 2022. It is estimated that about 2 crore additional jobs will be created by 2030 due to the strategic shift of India towards sustainable development.

This also fosters numerous options for business in the solar sector. There are many job roles emerging in this sector. To assume as a successful business entity in the solar sector it is essential to know about the commercial and selling aspects of these Photovoltaic systems comprising PV Modules, Inverters & Charge Controllers, Mounting structure, and Balance of System Components.

This program shall be a guide for those ambitious entrepreneurs who are looking for a bright career in the solar sector.

About NISE:

NISE is an autonomous institute under Ministry of New and Renewable Energy, Government of India established to facilitate the Research & Development, Testing, Certification, and Skill Development activities in the field of solar energy technologies. (www.nise.res.in)

Learning Objectives

1. Scope and Business Opportunities in Solar Photovoltaic, Solar Thermal and Solar Water Pumping Technologies
2. Opportunities under Start up India / Stand Up India Policy of Govt. of India
3. Economics of Solar Technologies. Business Models for Funding, etc.
4. Different types of Companies, Compliance Mechanism with Ministry of Corporate Affairs, GST rules, Tax payments, Tax Breaks, etc.

Vision & Mission

1. The vision of this programme enables participants to “Startup the business in solar energy technology”.
2. The mission of this programme is to impart the knowledge and proper training and enable participants to become a solar professional and solar Entrepreneurs.

Past Experience:

NISE has already successfully conducted 17 Nos of similar training and trained 1051 Entrepreneurs in the field of Solar Energy Technologies. This is the first time NISE is going to Conduct the online Start-up training due to the pandemic of COVID-19.

Target Audience

Graduate; Graduate Engineers; Students; Existing and Prospective Solar Entrepreneurs; EPC Contractors; etc.
<table>
<thead>
<tr>
<th>Timing</th>
<th>Module Name</th>
<th>Course Content</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30-11.00</td>
<td>Welcome &amp; Inauguration session</td>
<td>Welcome &amp; Inauguration session</td>
<td>Dr. Arun K Tripathi (DG,NISE) , Dr. Chandan Banerjee (DDG,NISE) / Dr. Vikrant Sharma (Dy. Director, NISE)</td>
</tr>
</tbody>
</table>
| 11.00-11.45 | Overview of Solar Energy Applications | • Solar Applications  
                                                                 • Overview of Renewable Energy | Dr. Nikhil PG, Assistant Director-NISE                                  |
| 12:00-12:45 | Basic of SPV Technology and Components | • Explain the basic of Solar Photovoltaic  
                                                                 • Explain the main components in SPV  
                                                                 • Explain the types of Solar Power Plants and Application | Mr. S K Sangal, Former Executive Director, Central Electronics Ltd, Ghaziabad, UP |
| 14.00-14.45 | Solar PV Pumping System | • Overview of Solar Water Pumping  
                                                                 • Types of Water Pumps | Ms Richa Parmar, Dy. Director-NISE                                     |
<p>| 15.00-15.45 | Solar Thermal | • Overview of Solar PV Thermal | Mr. Vikrant Yadav, Assistant Director-NISE                              |</p>
<table>
<thead>
<tr>
<th>Day 2</th>
<th>Timing</th>
<th>Module Name</th>
<th>Course Content</th>
<th>Faculty</th>
</tr>
</thead>
</table>
|            | 11.00-11:45 | Project Management and Monitoring                | • Monitoring and controlling project  
• Work is the process of tracking, reviewing, and regulating the progress in order to meet the performance objectives. | Mr. Sumit Gupta, Pragya Solar               |
|            | Tea break   |                                                  |                                                                                |                                              |
|            | 12.00-12:45 | Market Trend & Business Model & How to market the product | • The target market is defined by the customer needs that create the market,  
• The structural forces that govern operation within the market. | Mr. Sumit Gupta, Pragya Solar               |
|            | Lunch       |                                                  |                                                                                |                                              |
|            | 14.00-14:45 | Solar Regulations                                | • Regulations for Solar Sector in India                                        | Mr. Siva Ramkrishnan, Consultant - ANERT    |
|            | 15.00-15:45 | Costing of a Solar PV Systems                    | • Overall costing of a Solar PV Systems                                        | Mr. Siva Ramkrishnan, Consultant - ANERT    |

<table>
<thead>
<tr>
<th>Day 3</th>
<th>Timing</th>
<th>Module Name</th>
<th>Course Content</th>
<th>Faculty</th>
</tr>
</thead>
</table>
|            | 11.00-11:45 | CA session on startup                             | • How to Start a Company,  
• different types of companies, Compliance Mechanism with Ministry of Corporate Affairs,  
• Service tax Rules, Tax payments, Tax Breaks, etc. | CA. Ashok Chaudhary                         |
|            | 12.00-12:45 | Financing for Start Ups Scheme, State and Government policies on solar start up | • Such as Mudra, MSME etc. | Sunil Gupta, Principal Director, MSME       |
|            | 14.00-14:45 | Financing by banking – File an application against the Loan | • Application against the Loan  
• Financing  
• GST/TDS etc. | Mr. Sandeep Sherawat, Assistant Director-NISE / Mr. Ram Pal Panwar, Retd. DGM, State Bank of India. |
|            | 15.00-15:45 | Opportunities in Skill Development on Renewable Energy | • Opportunities in skill development  
• Closing Ceremony & Vote of Thanks | Dr. Vikrant Sharma (Dy. Director, NISE) |
Training Fee per participant | Rs 2,000 plus GST @ 18% (Rs 2,360/-) in favor of “National Institute of Solar Energy – Capacity Building” Gurugram
---|---
Total | Rs 2,000 plus GST @ 18% (Rs 2,360/-)
Fees Includes | Access all the lectures, online certification will be provided

**Faculty subjected to change based on availability.**

**How to Apply?**

Participants may kindly make the Payment of Rs **2000 plus GST @ 18% (Rs 2,360/-)** through RTGS/NEFT/ in favor of:

Account details are as follows:

ACCOUNT HOLDER NAME: NATIONAL INSTITUTE OF SOLAR ENERGY (NISE)  
ACCOUNT TYPE: CURRENT ACCOUNT  
BANK NAME: STATE BANK OF INDIA, DLF QUTAB ENCLAVE, SHOP NO.: 109-110 QUTUB PLAZA, SHOPING C, GURGAON HARYANA,  
(SBI BRANCH CODE: 6604)  
ACCOUNT NO. 37266665652  
IFSC CODE: SBIN0006604


Pooja Sharma, Consultant (National / International Trainings)  
National Institute of Solar Energy (NISE)  
Gurgaon Faridabad Road, Gwalpahari, Gurugram-122003, Haryana

*Note: The participants must clearly indicate and send their bank transfer details through the above link in advance by 27/09/2020, so that the participants are allowed to attend the online training program.*

**Number of Seats:**

<table>
<thead>
<tr>
<th>No. of Seats</th>
<th>Selection criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>First come First serve basis</td>
</tr>
</tbody>
</table>

*Note: If you require invoice against your organization it is mandatory to mention GSTN number of your organization. Otherwise your invoice will be generated as an individual*
### Coordinator at NISE

For any queries please contact between 10:00 am to 17:30 pm during weekdays:

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Vikrant Sharma</td>
<td>Dy. Director (Skill Development Division) – NISE</td>
<td><a href="mailto:sharma.vs1982@gmail.com">sharma.vs1982@gmail.com</a> (0124-2853035)</td>
</tr>
<tr>
<td>Ms. Pooja Sharma</td>
<td>CONSULTANT – NISE</td>
<td><a href="mailto:Startups.nise@gmail.com">Startups.nise@gmail.com</a> (0124-2853039) / 9999725683</td>
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