

WORKSHOP SCOPE

Extensive research is being performed on renewable energy generation due to decreasing fossil sources and energy security. Innovative methods in energy generation are rapidly becoming attractive. There are many applications to integrate traditional and renewable energy sources into the existing utility grid. Power Electronics is one of the most important components of modern grid applications and renewable energy systems. The increased efficiency and robustness of power semiconducting devices enable to improve many types of DC-DC, DC-AC, and AC-AC power conversion. The power converters and device topologies are improved in industrial, residential, commercial and many more specified areas to improve power system resiliency, flexibility, and reliability. On the other hand, electric vehicles and energy storage systems are widely integrated with renewable energy sources.

WORKSHOP OBJECTIVE

The objective of this workshop is to impart knowledge about emerging technologies and advanced design and modeling studies on the application of Power Electronics in Renewable Energy Systems among Students, Faculty Members, and Scientists so that they are able to apply Power Electronics in different fields.

WORKSHOP HIGHLIGHTS

- Learning basics about Power Electronics.
- Exploring different applications of Power Electronics in SPV Systems, Wind Energy Conversion Systems, etc.
- Development of models under MATLAB/Simulink environment.
- Analysis of developed MATLAB models.

ORGANIZING COMMITTEE

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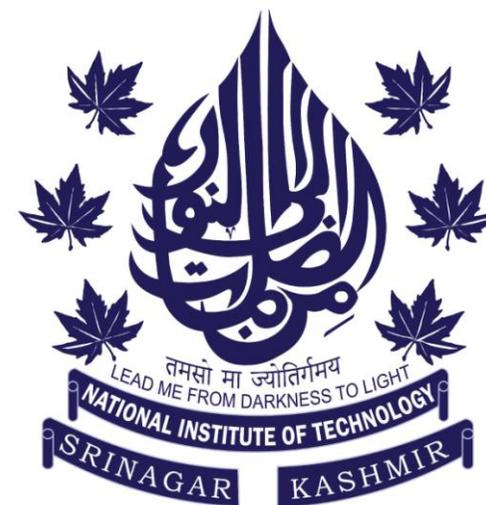
*One Week Workshop
On*

**POWER ELECTRONICS:
APPLICATIONS IN
RENEWABLE ENERGY
SYSTEMS**

(UNDER TEQIP-III)

22nd – 26th April, 2019

Venue: NIT Srinagar



Organized By
**Department of Electrical Engineering
National Institute of Technology Srinagar
Hazratbal, Srinagar – 190006, J&K**

ABOUT NIT SRINAGAR

National Institute of Technology Srinagar, formerly Regional Engineering College, Srinagar, is a government engineering and research institution, located in Srinagar, Jammu, and Kashmir, India. It is one among the 31 National Institutes of Technology (NITs) and as such is directly under the control of the Ministry of Human Resource Development (MHRD), Govt. of India. It was established in 1960 as one of several Regional Engineering colleges established as part of the Second Five Year Plan (1956–61) by the Government of India. It is governed by the National Institutes of Technology Act, 2007 which has declared it as Institute of National Importance.

NIT campus is on the bank of world famous Dal lake. The University of Kashmir and Hazratbal Shrine are at walkable distance. NIT Srinagar campus comprises academic buildings, student hostels with 100% residential facilities for faculty, staff, and students. The Health Center provides medical care to students, teachers, staff and their family members.

ABOUT ELECTRICAL ENGINEERING DEPARTMENT

The Department of Electrical Engineering, NIT Srinagar is one of the first departments of the erstwhile Regional Engineering College (REC) Srinagar. It was established in the year 1960 and is among the oldest departments in the institute. The department runs one undergraduate programme leading to a Bachelor's of Technology degree in Electrical Engineering, one post-graduate programme leading to a Master's of Technology degree in Electrical Power and

Energy Systems. The department also runs a Ph.D. programme with specializations in Power Systems, Power Electronics, Drives, Renewable Energy Systems, and Control & Automation.

The department has experienced and distinguished faculty with all of them having a Ph.D. from renowned institutes. The faculties constantly engage in research apart from teaching and regularly publish in top international journals and conferences. There are ten laboratories in the department catering to the needs of the students.

A number of students are recruited by various organizations including public sector undertakings such as Power Grid Corporation of India, Indian Oil, Bharat Petroleum, Bharat Heavy Electricals Limited to mention a few.

REGISTRATION DETAILS

Registration Fee (per participant)	
Students/ Research Scholars	Rs. 2500/-
Faculty Members/ Scientists	Rs. 3500/-
Industry Persons	Rs. 5000/-

The registration fee should be paid online NEFT/SWIFT to following account:

A/c Name: TEQIP-III

A/c No: 0391040100011025

Bank Name: J & K Bank

Bank Branch: REC Srinagar

IFSC Code: JAKA0RECSGR (JAKA then zero then RECSGR)

Note:

- 1. The last date of Registration is 10th April 2019.***
- 2. The entries are limited to only 30 participants on a first come first serve basis.***
- 3. Accommodation will be provided inside the NIT Srinagar on sharing basis, if available.***

One Week Workshop On

POWER ELECTRONICS: APPLICATIONS IN RENEWABLE ENERGY SYSTEMS

REGISTRATION FORM

Name : _____

Qualification : _____

Gender : _____

Designation : _____

Faculty Members/ Scientists/ Industry Person/
Student/ Research Scholar: _____

Department : _____

Name of the Institute / Industry : _____

Accommodation required : Yes / No

Address for Communication : _____

Mail ID : _____

Phone No :- _____

DD/ Online Reference No.: _____

Name of the Bank : _____

Amount in Rs : _____

Dated: _____

Signature of
the Participant

Signature of the
Competent Authority
with the seal

Note: Kindly email the registration form with proof of payment to farhad@nitsri.ac.in up till 10th April 2019.