

## Short Term Course

On

# Energy Conservation and Renewable Energy

(ECRE-2019)

(July 8-12, 2019)



## Organized by

School of Renewable Energy and Efficiency, NIT  
Kurukshetra

## In association with

Bureau of Energy Efficiency, GOI Ministry of Power

Department of New and Renewable Energy, Haryana

Haryana Renewable Energy Development Agency,  
Panchkhula

## PATRONS

Dr. Renu Phulia, IAS  
(Director, DNRE & HAREDA)

Padma Shri Dr. Satish Kumar,  
(Director, NIT Kurukshetra)

## CO-PATRONS

Prof. Lillie Dewan  
(Coordinator, SREE, & Prof. EED, N.I.T. Kurukshetra)

Sh. O. D. Sharma  
(Project Director DNRE/HAREDA)

Sh. P. K. Nautiyal  
(Scientific Engineer, A, DNRE/HAREDA)

## COURSE CONVENERS

Dr. Shelly Vadhera  
(Assoc. Prof. EED, N.I.T. Kurukshetra)

Mr. Sukhchain Singh  
(Project Manager DNRE/HAREDA)

## COURSE COORDINATORS

Dr. Gulshan Sachdeva ,  
(Asst. Prof. MED, N.I.T. Kurukshetra)

Dr. Avadhesh Yadav  
(Asst. Prof. MED, N.I.T. Kurukshetra)

Dr. Shashi Bhushan Singh,  
(Asst. Prof. EED, N.I.T. Kurukshetra)

Dr. Rahul Sharma  
(Asst. Prof. EED, N.I.T. Kurukshetra)

## ORGANIZING COMMITTEE

Dr. Amit Kumar ,  
(Faculty, SREE, N.I.T. Kurukshetra)

Mr. Gaurav Sharma,  
(Faculty, SREE, N.I.T. Kurukshetra)

Ms. Amandeep Kaur  
(Faculty, SREE, N.I.T. Kurukshetra)

## IMPORTANT DATES

Last date of Registration: **June 15, 2019**

Notification of Selection: **July 1, 2019**

## KURUKSHETRA

Kurukshetra is described as DHARAMKSHETRA, with historical and religious importance. Here, the battle of Mahabharata was fought, and Lord Shree Krishna preached the philosophy of "KARMA" as enshrined in the holy book "Shrimad Bhagwad Gita." Kurukshetra is very well connected by Road (NH44, connecting Delhi-Chandigarh-Amritsar-Jammu), by Rail, (Delhi-Ambala section), and by Air (Delhi 160 km and Chandigarh 80 km). The NIT Kurukshetra campus is situated about 10 km from Pipli, bus stand located on NH44 and about 4 km from Kurukshetra railway station.

## NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

NIT Kurukshetra, formerly known as Regional Engineering College, Kurukshetra was founded in 1963. It was conferred upon the NIT status, with Deemed University on June 26, 2002. The Institute offers several courses, in various disciplines of B. Tech., M. Tech., MBA and MCA and Ph.D. with an annual intake of about 1500 students. Institute also provides excellent facilities for advanced research in the emerging areas of Engineering, Science, and Technology.

## SCHOOL OF RENEWABLE ENERGY AND EFFICIENCY (SREE), NITK

School of Renewable Energy and Efficiency was established in 2012. The School offers, M. Tech., and Ph.D. Degrees since its inception. Research and development activities on various relevant aspects of non-conventional energy sources have been envisaged keeping synergy with the evolving innovations and developments in Renewable Energy.

## BUREAU OF ENERGY EFFICIENCY

The Government of India has setup Bureau of Energy Efficiency (BEE) on 1<sup>st</sup> March 2002 under the provision of Energy Conservation Act 2001. The mission of BEE is to assist in developing policies and strategies with a thrust on self regulation and market principles with

primary objective of reducing energy intensity of Indian economy within the overall framework of the Energy Conservation Act 2001.

## DEPARTMENT OF NEW AND RENEWABLE ENERGY

The Department of New and Renewable Energy (DNRE) is responsible for formulating policies and programmes necessary for popularizing the applications of various non-conventional and renewable sources of energy in the State. It implements various schemes concerning utilization of solar energy, bio gas, micro hydel, bio mass energy. The Department is also acting as a State Designated Agency for the implementation of the Energy Conservation Act, 2001. State Govt. has also set up a new agency called Haryana Renewable Energy Development Agency (HAREDA) in May, 1997 for implementation of various centrally and state sponsored schemes/ projects in the area of renewable energy in the State.

### COURSE OBJECTIVES

ECRE 2019 is to provide a forum for professionals, key academic and industrial practitioners, researchers, engineers and students involved in the broad field of Renewable Energy Systems. Special emphasis will be given to Energy Conservation Systems. This STC aims to usher transitions to a cleaner and sustainable future through the conservation and efficient use of Natural resources.

### COURSE CONTENTS

The course aims to address the following issues related to Energy Conservation and Renewable Energy Systems.

- Resend Trends in Renewable Energy System
- Stability, Security, Reliability and Sustainability of Renewable Energy System
- Wind Energy Conversion Systems
- Micro Grid and Smart Grid
- Hybrid Energy Systems.
- Energy Audit and Management

- Energy storages in Renewable Integrated Systems
- Grid Tied Renewable Energy Technology
- Solar Thermal Systems
- Heat Assisted Cooling System
- Bio Energy and Gasifiers
- Green Buildings

### WHO SHOULD ATTEND?

Faculty members/ research scholars/ students from academic institutes approved by the AICTE/ UGC/ MHRD and Scientists/ Engineers working in Private/ Public/ Govt. organizations/ industries etc. can attend the course. The application should be made on the registration form and should accompany registration fee as below:

Participant's Category	Registration fee* (in Indian Rupees)
UG Students (Limited Seats)	200/-
PG Students / Research Scholars	500/-
Academia/ Industry	1000/-

### Registration fee is refundable

Participants will be provided meals and tea during the sessions. However, limited accommodation is available in the hostel/ guest house. The accommodation can be arranged on the request of the participants separately. No TA/ DA will be paid to the participants. Seats are limited and about 20 Participants will be accommodated. Participants will be selected on first-come-first served basis. The registration form, complete in all respects, duly forwarded by the Head of the Department/ School/ Institute, accompanied by Demand Draft/ Online details of the requisite amount should reach on or before June 15, 2019. Registration fee is to be paid in advance through a bank demand draft in favor of "Director, NIT Kurukshetra". The brochure with registration form can be downloaded from Institute website [www.nitkkr.ac.in](http://www.nitkkr.ac.in). The hard copy of the completed application forms should be sent at the correspondence address and the soft copy to the e-mail address.

### CORRESPONDANCE

**Address:** ECRE-2019,  
School of Renewable Energy and Efficiency, NIT  
Kurukshetra - 136119  
**Email:** [ecre2019@gmail.com](mailto:ecre2019@gmail.com), [sreenitkkr@gmail.com](mailto:sreenitkkr@gmail.com)  
**Phones:** +919416377796, 8950214329

### REGISTRATION FORM Short Term Course on

### Energy Conservation and Renewable Energy

(July 8-12, 2019)

Name: \_\_\_\_\_  
Title: (Dr./Mr./Mrs./Ms.): \_\_\_\_\_  
Sex (M/F): \_\_\_\_\_  
Date of Birth: (dd/mm/yyyy) \_\_\_\_\_  
Designation: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address for correspondence: \_\_\_\_\_  
\_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Qualification: \_\_\_\_\_  
Category of Registration: \_\_\_\_\_  
Accommodation required\*: Yes / No  
**Payment details:**  
Draft/Online Details \_\_\_\_\_  
Date: \_\_\_\_\_  
Issuing Bank: \_\_\_\_\_ Amount: \_\_\_\_\_  
Signature of applicant (with date)  
**Sponsoring Authority:**  
Name: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Recommended: \_\_\_\_\_

(Signature of Head of the Department / Section / School / Institute with Seal)