

# One Week Workshop on Energy Conservation, Efficiency & Sustainability (ECES-21)

(December 13-17, 2021)



*Organised by*

**School of Renewable Energy and Efficiency (SREE)  
National Institute of Technology Kurukshetra**

**In association with**



**Bureau of Energy Efficiency, GOI, Ministry of Power  
Department of New and Renewable Energy, Haryana  
Haryana Renewable Energy Development Agency,  
Panchkula.**

## Patrons

**Dr. Hanif Qureshi, IPS**      **Prof. Akhilesh Swarup**  
Director General      Hon'ble Director Incharge  
DNRE & HAREDA      NIT-Kurukshetra

## Co- Patron

**Prof. Ratna Dahiya**  
Coordinator of SREE, Professor of EED

## Conveners

**Dr. Shelly Vadhera**      **Mr. Sukhchain Singh**  
Associate Professor, EED      Project Manager, DNRE/  
HAREDA.

## Co-ordinators

**Dr. Chandrashekara M.**      **Dr. Pradeep Kumar**  
Assistant Professor, MED      Assistant Professor, EED  
**Dr. Rajesh Kumar**      **Dr. Shivam**  
Assistant Professor, MED      Assistant Professor, EED

## Organising Committee

**Miss. Amandeep Kaur**      **Mr. Gaurav Sharma**  
Assistant Professor, SREE      Assistant Professor, SREE.  
**Dr. Navjot Singh Sandhu**  
Guest Faculty, SREE.

## Correspondance Address:

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Assistant Professor, SREE,  
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## Kurukshetra

Kurukshetra is described as DHARAMKSHETRA, with historical and religious importance. Here, the battle of Mahabharata was fought, and Lord Shri 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),

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 1st 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.

### **Objectives**

The workshop is designed to impart the participants with knowledge of energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternate energy sources and their technology and application. The workshop will explore society's present needs and future energy

demands, examine conventional energy sources and systems, including fossil fuels and nuclear energy and then focus on alternate, renewable energy sources such as solar, biomass (conversions), wind power, geothermal, and hydro. Energy Conservation methods will be emphasized.

The take-away for participants from workshop will be:

Deep understanding of the various forms of non-conventional energy resources. Empowered to gauge the present energy scenario and the need for energy and environment sustainability. Knowledge about different appliances, methods and techniques for being energy efficient. Finally, by the end of the programme, the participants would be sensitised with cutting-edge technology leading to energy conservation, efficiency & sustainability

### **Who should attend**

This workshop is specially designed to create awareness on Energy Conservation, Efficiency & Sustainability for the participants. Participants will be selected on first-come-first serve basis up to a **maximum of 50**. The registration form, complete in all respects, duly forwarded by the Head of the School and should reach on or before

**Dec. 11, 2021.** Email ID:

[Sharma.gaurav254@gmail.com](mailto:Sharma.gaurav254@gmail.com)

### **Important Dates**

**Last date of Registration: Dec . 11, 2021**

**Notification about Selection: Dec. 12, 2021**

**There is no registration fee for the workshop.**

### **REGISTRATION FORM**

One Week Workshop On  
**Energy Conservation, Efficiency & Sustainability**

December 13- 17, 2021

Name: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Course: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

(Signature of applicant)

### **Sponsoring Authority:**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Recommended: \_\_\_\_\_

Signature of the Head of School / Department /  
Institute.

**One Week Workshop On**  
**Energy Conservation, Efficiency & Sustainability (ECES-21)**  
**(13-17 December 2021)**

**Workshop Schedule**

**13 December 2021**

<b>Date</b>	<b>Time</b>	<b>Event</b>
<b>13.12.2021</b>	10:00 AM-10:30 AM	Registration & Refreshments
	10:30 AM-11:30 AM	Inaugural Function (11 <sup>th</sup> class)
	11:30 AM – 1:00 PM	Visit to Lab Facility & 1MW Roof Top Solar Power (11 <sup>th</sup> class)
	1:00 PM-2:00 PM	Lunch Break
	2:00 PM-3:15 PM	Key Note Lecture
	3:15 PM-3:30 PM	Tea Break
	3:30 PM-5PM	Expert Talk 1

**14 December 2021**

<b>Date</b>	<b>Time</b>	<b>Event</b>
<b>14.12.2021</b>	10:00 AM-10:30 AM	Registration & Refreshments
	10:30 AM-1PM	Debate / Extempore Competition (9 <sup>th</sup> class)
	1 PM - 2 PM	<b>Lunch Break</b>
	2 PM-3:15 PM	Expert Talk 2
	3:15 PM-3:30 PM	<b>Tea Break</b>
	3:30 PM-5 PM	Expert Talk 3

**15 December 2021**

<b>Date</b>	<b>Time</b>	<b>Event</b>
<b>15.12.2021</b>	10:00 AM-10:30 AM	Registration & Refreshments
	10:30 AM-1PM	Poster Making Competition (9 <sup>th</sup> class)
	1 PM - 2 PM	<b>Lunch Break</b>
	2 PM-3:15 PM	Expert Talk 4
	3:15 PM-3:30 PM	<b>Tea Break</b>
	3:30 PM-5 PM	Expert Talk 5

### 16 December 2021

Date	Time	Event
15.12.2021	10:00 AM-10:30 AM	Registration & Refreshments
	10:30 AM-1PM	Quiz Competition (11 <sup>th</sup> class)
	1 PM - 2 PM	<b>Lunch Break</b>
	2 PM-3:15 PM	Expert Talk 6
	3:15 PM-3:30 PM	<b>Tea Break</b>
	3:30 PM-5 PM	Expert Talk 7

### 17 December 2021

Date	Time	Event
17.12.2021	10:00 AM-10:30 AM	Registration & Refreshments
	10:30 AM- 12 PM	Visit to Lab Facility & 1MW Roof Top Solar Power (9 <sup>th</sup> class)
	12:00 PM – 1:00 PM	Valedictory (Prize and certificate distribution)
	1 PM - 2 PM	<b>Lunch Break</b>
	2 PM-3:15 PM	Brainstorming Sessions on Energy Conservation, Efficiency & Sustainability
	3:15 PM-3:30 PM	<b>Tea Break</b>
	3:30 PM-5 PM	Feedback & Discussion

#### Prizes for competitions are:

**1<sup>st</sup> Prize –Rs. 3000**

**2<sup>nd</sup> Prize - Rs.2000**

**3<sup>rd</sup> Prize- Rs.1000**

#### Contact No.s

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