

About Kurukshetra

Kurukshetra is a place of religious pilgrimage and historical significance. It is the land of Mahabharata and place where sermons of 'Bhagwad Gita' were delivered. In medieval period, Thanesar, the old city, was the seat of power of Harshwardhana. Kurukshetra is well connected with rail/road. It is a railway junction on Delhi-Ambala section and is situated on National Highway No. 1 (G.T. Road). It is approximately 160 km from Delhi and 100 km from Chandigarh. NIT Kurukshetra is about 10 km from Pipli and 6 km from Kurukshetra railway station.

About NIT Kurukshetra (Institution of National Importance)

National Institute of Technology, Kurukshetra (founded as Regional Engineering College, Kurukshetra in 1963) was conferred upon the status of Deemed University on June 26, 2002. Institute has B.Tech, M.Tech, MBA and MCA Courses in various disciplines with annual intake of about 1500 students. Institute also offers excellent facilities for advanced research in the emerging areas of Science and Technology leading to Ph.D. degree. The institute has well qualified and dedicated faculty along with finest supporting staff, laboratories and other infrastructure. The syllabus and the curricula are constantly being updated to meet the growing demands and need of the country in different areas of technology. The infrastructure is geared to enable the Institute to turn out technical personnel of high quality.

About School of Renewable Energy & Efficiency

Realizing the need for education and research in the field of renewable energy, the School of Renewable Energy and Efficiency was established at National

Institute of Technology, Kurukshetra, Haryana, India in the year 2012. Research and development activities on various relevant aspects of non conventional energy sources were initiated. In response to the demand from industries and other organizations for trained manpower in the interdisciplinary field of energy, an M.Tech in Renewable Energy Systems has been offered since inception of the school.

Patron

Padma Shri Dr. Satish Kumar
Director, NIT Kurukshetra

Chairperson

Prof. Hari Singh

Course Coordinators

Dr. Shelly Vadhera
Dr. Gulshan Sachdeva

Course Co-coordinators

Dr. Avadhesh Yadav
Dr. Giribabu Dyanamina
Dr. Jayaram Nakka

Important Dates

Last date of Registration: March 20, 2017
Notification about Selection: March 21, 2017

Registration form should be sent to:

Dr. Shelly Vadhera
Associate Professor
Dept. of Electrical Engineering
National Institute of Technology Kurukshetra
Soft copy via email: shelly_vadhera@nitkkr.ac.in
Mobile: +919416377796

Two Days Short Term Course

on

Renewable Energy: Technologies & Transitions

(March 22-23, 2017)



Organized by

**School of Renewable Energy & Efficiency
National Institute of Technology Kurukshetra
Kurukshetra-136119
Haryana, India**

Sponsored By TEQIP-II

REGISTRATION FORM

Two Days Short Term Course
On

Renewable Energy: Technologies & Transitions

March 22-23, 2017

Name: _____
Date of Birth: _____
Designation: _____
Organization: _____
Address for correspondence:

Phone: _____
E-mail: _____
Qualifications: _____
Experience: _____ Years
Accommodation required: Yes / No
Payment details:
Draft No. with date: _____
Issuing Bank: _____ Amount: _____

(Signature of applicant)

Sponsoring Authority:

Name: _____
Designation: _____
Organization: _____
Recommended: _____

Signature of Head of Department/School/Institute

Course Objectives

Renewable energy technologies are clean sources of energy that have a much lower environmental impact than conventional energy technologies. Most renewable energy comes either directly or indirectly from the Sun. Sunlight, or solar energy, can be used directly for heating and lighting homes and other buildings, for generating electricity, and for hot water heating, solar cooling, and a variety of commercial and industrial uses. The Sun's heat also drives the winds, whose energy, is captured with wind turbines. Then, the winds and the sun's heat cause water to evaporate. When this water vapor turns into rain or snow and flows downhill into rivers or streams, its energy can be captured using hydroelectric power. Along with the rain and snow, sunlight causes plants to grow. The organic matter that makes up those plants is known as biomass. Biomass can be used to produce electricity, transportation fuels, or chemicals. The use of biomass for any of these purposes is called bio energy. This STC is designed to address applications of renewable energy in the industry and to encourage professionals /research scholars/ academicians towards research and for their Academic enhancement.

By the end of the programme, the participants will be enriched in renewable energy technologies and transitions.

Course Contents

- Solar Assisted Cooling Systems
- Wind Energy Conversion Systems
- Concentrated Solar Power
- On Grid Integrated Renewable Energy Systems
- Biogas/Biomass
- Product and Process Improvement

- Reliability Assessment of Renewable Energy Systems
- Other Relevant Topics

Who should attend

Faculty members / research scholars / PG students from academic institutes approved by the AICTE /UGC /MHRD and Scientists / Engineers working in private / public/ Govt. organisations / industries etc. can attend the course. Application should be made on the registration form and should accompany registration fee as below:

<u>Participants category</u>	<u>Registration fee (Rs)</u>
PG/PhD Students	250/-
Faculty	500/-
Industry	1000/-

Participants will be provided meals, tea during the sessions. However, accommodation can be arranged in hostel / guest house on nominal payment basis subject to the availability. No TA/ DA will be paid to the participants. Participants will be selected on first-come-first served basis up to a maximum of 30. The registration form, complete in all respects, duly forwarded by the Head of the Department/School/Institute, accompanied by demand draft of requisite amount should reach on or before March 21, 2017. Registration fee is to be paid in advance through a bank demand draft in favour of “**Director, NIT Kurukshetra**” payable at **SBI, NITKurukshetra**.

The brochure with registration form can be downloaded from Institute website www.nitkr.ac.in.