

One Week Faculty Development Programme
on
*Recent Developments in
Renewable Energy Systems*

(November 25-29, 2019)

Sponsored by
**Technical Education Quality
Improvement Program
TEQIP-III**

Chairman:
Prof. Vipin, HOD, Mech, DTU-Delhi

Course Coordinators

Dr. Amit Pal
Dr. Anil Kumar
Dr. N A Ansari



Organized by

Department of Mechanical Engineering and Production
& Industrial Engineering
Delhi Technological University
With
Twinning Partner MITS Gwalior

Topics to be covered

- Alternate Fuels (CNG/LPG)
- Wind, Hydral and Geothermal
- Solar Photovoltaic and Solar Thermal
- Biomass and Biofuels
- Waste to Energy
- Hydrogen & Fuel Cells
- IC Engine performance and emissions
- Energy Storage

Resource persons

*Faculty and Experts from DTU/ IIT/ NIT/CSIR/
Maruti/ICAT/ IOCL/DST/ industry & other
research organizations*

Venue:

Committee Room (FW4-GF5)
Mechanical Engineering Department

For further information

Please visit institute Website., Brochure can also be
downloaded by the link provided.

<http://dtu.ac.in/>

E-mail: rdres.dtu@gmail.com

Contact No. 09868543545, 09310050842,
9425680448

Important Dates

- **Last date for receipt of applications:**
- Registration form complete in all respect may be sent to the course coordinators latest by November 05, 2019.
- **Information to selected candidate, November 15, 2019. (On DTU website)**

APPLICATION FORM

Recent Developments in
Renewable Energy Systems
(November 25-29, 2019)
(TEQIP-III)

1. Name:
2. Date of Birth:
3. Designation :
4. Institution:
5. Institution AICTE approved Yes/ No
6. Address for correspondence :-----

Mobile: E-mail:

7. Qualifications with Specialization
8. Area of research:
8. Experience (in years)
Teaching Research Industry
9. DD details

Declaration

The information provided is true to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration.

(Signature of Applicant)

SPONSORSHIP CERTIFICATE

Dr/Mr/Mrs/Ms-----
----- is an employee of our institute and is hereby sponsored to participate in the **Faculty Development Program RDRES-19.**

Place:

Date:

Signature of Head of Institution

Introduction

With the pollution levels reaching to alarming levels, worldwide there is a quest to search for the environment friendly alternative energy technologies. Renewable technologies are potential sources of clean energy and their optimal use may lead to minimize environmental impacts, produce minimum secondary wastes to make them economically viable. Sun is the cause of all energies. The primary forms of solar energy are heat and light. Sunlight and heat are transformed and absorbed by the environment in innumerable ways. Some of these transformations result in renewable energy flows such as biomass and wind energy. Renewable energy technologies offer an excellent opportunity for mitigation of greenhouse gas emission and reducing global warming by substituting conventional energy sources.

Target Participants

The programme is open to the faculty of AICTE approved educational institutions and the professionals from research organizations and Industries.

Registration

Registration form in the prescribed format approved/sponsored by competent authority should reach to the Course Coordinator on or before **November 05, 2019**.

There shall not be any Registration fee for participants, however they have to submit a DD of Rs.2000/- in favour of the "**Registrar DTU**" payable at Delhi, which shall be returned to the participants on successful completion of the course. Advance registration is Mandatory. **List of selected participants shall be displayed on University website <http://dtu.ac.in/> on or before November 15, 2019**

Accommodation and Travel

Accommodation and travel expenses etc will be born by the candidates. TA/DA will not be paid for attending the FDP. However, working lunch/tea/snacks will be provided during the course.

About DTU, Delhi

Delhi Polytechnic was established in the year 1941. The institution was set up at historic Kashmere Gate campus as a follow up of the Wood and Abott Committee of 1938. The national diploma awarded by the institution was recognized as equivalent to degree level for the purposes of employment. In 1952 the college was affiliated with University of Delhi and called as Delhi College of Engineering. The department of Architecture later became the School of Planning and Architecture, now a Deemed University and Institution of National importance. The department of Arts and Sculpture became College of Arts and the departments of Chemical Technology and Textile Technology were shifted out en-block to mark beginning of the IIT Delhi. DCE was given the status of University (DTU) in the year 2009.

Department of Mechanical Engineering

The Department Of Mechanical Engineering and Production & Industrial Engineering has seen considerable growth since its inception in 1941. The department offers UG programme in mechanical, Production & Industrial Engineering and Automobile Engineering and PG programmes on Thermal Engineering, Production Engineering, Renewable Energy Technology and Computational Design. About 50 Research scholars are presently pursuing their Ph D research work. The department possesses modern laboratories equipped with latest experimental set-ups and research facilities for instrumentation, experimental stress analysis, strength of materials, fluid mechanics, IC engines, automotive engineering, robotics, heat transfer, solar energy, flexible manufacturing system, computational fluid dynamics supported by Software like view-flex, CAD-CAM etc.

The department is having many small to medium capacity bio-diesel processing units based on conventional and latest technologies. Different species of non-edible oil such as linseed, cottanseed, waste cooking oil and high FFA rice bran oil, jatropha, Karanja, mahua, neem oil etc., have been successfully converted into bio diesel. The processed biodiesel has been tested on both constant speed and variable speed engines for performance and emissions.