

One-week
Faculty Development Programme
on
Advances in Renewable Energy Technologies
and Systems

February 19th - 24th, 2018

Supported by



Teaching Learning Centre
Tezpur University



AICTE – NEQIP
Tezpur University

Organized by
Department of Energy
Tezpur University
Napaam, Tezpur 784 028
Assam, India

BACKGROUND

This one-week Faculty Development Program (FDP) is aimed for college and University teachers in various disciplines of science and engineering. The approach of teaching has changed to a new paradigm, and at presents it essentially laying emphasis on stimulating inquisitiveness in the process of acquiring and assimilating new scientific knowledge and concepts. The teachers need to be updated with the pedagogy for better teaching-learning experience. Moreover, the exposure to tools like open source courseware, simulation tools, and scientific approaches of planning and execution of experiments will enhance the student's inquisitiveness and understanding of the subjects. Furthermore, interdisciplinary subjects like 'renewable energy' are getting due attention in the science and engineering course curriculum. So teachers need to refresh the knowledge on these subjects for better pedagogical approach.

Renewable Energy refers to the energy extracted from resources which are renewable in nature and cause minimum harm to the environment as compared to the based resources. The increasing energy demand and growing environmental concern has directed the focus towards the renewable energy sector. Because of this emphasis the scenario in renewable energy is changing very fast and there is a need to track these changes with updates in advances in technology in this area. The aim of this Faculty Development Programme (FDP) is to bring the teachers of different engineering, science and allied subjects onto one platform to update with the advances in the renewable energy technology and applications, effective teaching learning practices, integration of ICT in the teaching-learning process.

COURSE CONTENTS AND RESOURCE PERSONS

The course intended to discuss the recent advances on the renewable energy technologies and systems including the basic working principle. The major topic covers in this programme are (i) Technology-enhanced learning environments (ii) Renewable energy technologies (iii) Energy Resource Mapping (iv) Solar Photovoltaic and Thermal Energy (v) Biomass Energy (vi) Wind Energy (vii) Grid connected renewable energy system (viii) Simulation tools etc. The course will also cover the laboratory components of these energy systems and field visit. Experts from the different reputed academic institutes, research laboratories and industries will be invited to deliver the various aspects of the programme. Apart from the invited experts, faculties of Tezpur University having expertise in the different areas related to the programme will also deliver lectures.

WHO CAN ATTEND

The course is open to all the teachers teaching Physics, Chemistry, Mechanical, Electrical, Chemical, Electronics etc. in University and Colleges approved by UGC/AICTE. Maximum number of participants in the programme is 40 and selection is based on first come first serve basis. No TA/DA will be paid to the participant to attend the programme. Attendance in all sessions is mandatory to receive the participation certificate. Accommodation to the outstation participants will be arranged in the Tezpur University Guest House and Hostels subject to availability.

TEZPUR UNIVERSITY

Tezpur University is a premier teaching and research driven University established by an Act of Parliament in 1994. University placed 171-180th ranking in QS (Quacquarelli Symonds) BRICS University Rankings 2018 and placed in the range 601-800 in The Times Higher Education (THE) World University Rankings 2018. University was awarded the Visitor's "Best University" award in 2016 and ranked 5th in the year 2016 and 30th in the year 2017 in NIRF ranking.

DEPARTMENT OF ENERGY

Department of Energy offers a two-year (Four semesters) AICTE approved M Tech in Energy Technology programme, PhD in energy related areas and Post Graduate Diploma in Renewable Energy and Energy Management Programme under Distance mode. The major research areas of the Department are Access to clean energy, Bio-diesel, Biomass gasification, Climate responsive buildings, Decentralized energy systems, Energy materials, Fuel cell and Solar Energy. The Department has number of International collaborative projects and ongoing research funding is more than 500 lakhs.

IMPORTANT DATES

Last date of receipt of duly filled registration form	February 12, 2018
Intimation of selection to the participants	February 13, 2018
Starting of the program	February 19, 2018

ORGANISING COMMITTEE

Chief Patron

Prof M M Sarma
Vice Chancellor

Advisors

Prof M K Sarma, Director, Teaching Learning Centre
Prof C L Mahanta, Dean, School of Engineering

Chairman

Prof R Katakati, Head, Department of Energy

Members

Prof D C Baruah, Department of Energy
Prof D Deka, Department of Energy
Dr P K Choudhury, Department of Energy

Coordinators

Dr Sadhan Mahapatra, Department of Energy
Dr Biraj Kumar Kakati, Department of Energy
Dr Nabin Sarmah, Department of Energy
Dr Vikas Verma, Department of Energy



REGISTRATION FORM



One-week duration Faculty Development Program on Advances in Renewable Energy Technologies and Systems

Organized by
Department of Energy, Tezpur University

[Duly filled Registration Form (scanned copy/Hard copy) forwarded by recommending authority of the College/University must reach to the coordinator on or before 12th February 2018]

Personal Details

Name (Dr./Mr./Mrs./Ms) : _____
 Designation : _____
 University/College : _____
 Department : _____
 Highest Academic Qualification : _____
 Teaching Experience (Years) : _____ Research Areas _____
 Address : _____

 E-mail _____
 Mobile Number _____

Accommodation required: YES/NO Food Preference: Vegetarian/Non-vegetarian

I hereby declare that all the information mentioned above is true to the best of my knowledge and belief. I agree to abide by the rules and regulation of governing this FDP program. I shall attend the program for the entire duration.



Signature of the applicant

Recommendation

This is to certify that Dr./Mr./Mrs./Ms. _____, an employee of our College/ Department is hereby permitted to attend the FDP on "Advances in Renewable Energy Technologies and Systems" at Department of Energy, Tezpur University, during February 19- 24, 2018, if selected.

Date:

Signature of the Recommending Authority

Designation:

Office Seal:

CONTACTS

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