

DECLARATION BY THE APPLICANT

The information furnished in the application form is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing QIP sponsored one week short term course on "**Recent Developments in Conventional and Non Conventional Energy Resources**" and will attend the programme for the entire duration, if selected.

Place:

Date:

Signature of Applicant

SPONSORSHIP CERTIFICATE

Certified that Dr/Mr/Ms _____ is an employee of our Institution and is sponsored to attend the QIP sponsored one week short term course on "**Recent Developments in Conventional and Non Conventional Energy Resources**", if selected.

Place:

Date:

Signature and seal of sponsoring authority

ADDRESS FOR COMMUNICATION

Dr.P.MATHIAZHAGAN

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ABOUT THE INSTITUTION

Pondicherry Engineering College (PEC) is 32 years old Institution promoted and fully funded by the Government of Pondicherry. The college was started in the academic year 1985-86 under the seventh plan. The college has signed several MOU's with leading International/National Institution/Organizations of Eminence and is actively involved in various research projects. The college has been granted funds by NPIU under TEQIP phase III. PEC now offers 8 undergraduate and 11 post graduate courses apart from Full Time/Part Time M.Phil. and Ph.D Programmes. The National Board of Accreditation (NBA) has accredited all the 8 undergraduate courses. The college is situated about 12 km north of Puducherry and about 150 km south of Chennai along the scenic East Coast Road (ECR) on the shores of the Bay of Bengal. The lush green campus of great scenic beauty and picturesque environment forms an excellent setting for the pursuit of studies in Engineering, Science and Technology.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was started in the academic year 1985-86. The department is offering a UG course (B.Tech) in Mechanical Engineering and two PG courses namely M.Tech (Energy Technology) and M.Tech (Product Design and Manufacturing) besides Ph.D (Full Time and Part Time) programs. The department has a team of highly qualified and dedicated faculty members. The department has laboratories with modern and state of the art equipments, excellent computing facilities and a library with adequate number of books. The department also has been recognized as a minor QIP Centre for pursuing PhD program. The Alumni of our department are spread far and wide across the globe holding eminent positions in Industries, Academia and R&D.

ABOUT PUDUCHERRY

The history of Puducherry goes back to the Roman times but factually started with the arrival of the French in 1683 who founded the town and went on to build it to its present form, during their rule for about two and half centuries. The coastal town of Puducherry with the French ambience is known for the serene atmosphere. Sri Aurobindo Ashram and the nearby Auroville International Township lend a unique spiritual flavor to the city. There is a blend of spiritual aura French colonial heritage, Tamil culture (Memorials of Poet Bharathiyar and Poet Bharathidasan), Sri Manakula Vinayagar temple, Chunnambar boat house, Chindambarm Nataraja temple etc., are some of the major tourist attraction in and around Puducherry

QIP SPONSORED

ONE WEEK SHORT TERM COURSE

ON

RECENT DEVELOPMENTS IN CONVENTIONAL AND NON CONVENTIONAL ENERGY RESOURCES

06th to 10th Nov 2017



Coordinators

Dr.P.MATHIAZHAGAN

Dr. A. SATHIAMOURTTY



Organized By

**DEPARTMENT OF MECHANICAL ENGINEERING
PONDICHERRY ENGINEERING COLLEGE
PUDUCHERRY- 605 014
website: www.pec.edu**

ABOUT THE COURSE

The availability of affordable electricity is essential to the economic strength of a nation. Electricity generation has therefore gained remarkable attention over the last few decades. The efficiency of a coal-fired power plant is of significant importance for the environmental impact associated with the use of coal. One percent (1%) increase in efficiency reduces by 2% percent, specific emissions such as CO₂, NO_x, SO_x and particulates. A coal-fired power plant with an efficiency of 50% would emit 40% less CO₂ than a plant using today's technologies. With high-efficiency coal technologies, the global CO₂ emissions could be maintained at about 15,000 million tons per year by 2075, in spite of the fast growth of world coal usage. From the environmental viewpoint, it is very important to adopt advanced, more efficient power plants that use coal in a cleaner and more economic way. At the same time, however, the demand is increasing to improve efficiency and maintain safety and reliability in various power plants such as thermal, nuclear power, hydro, solar photovoltaic, fuel cell, wind, phase change materials and biomass, which shoulder a main portion of electric power supply. This QIP programme will provide an in-depth knowledge, recent techniques, materials development and environmental issues of power generation. They can apply the principle and technologies in the industries where they are working and for faculties are concerned, they would be able to teach these subjects with lot of confidence. Researchers can easily understand the characteristics techniques and be able to apply their research.

TOPICS TO BE DISCUSSED IN THE PROGRAMME

- ✓ Overview of coating for materials developments
- ✓ Software package for design of components
- ✓ Basic concepts of power plant cycles.
- ✓ Effective cooling technologies for solar energy applications
- ✓ Recent Developments in Power Plant Materials
- ✓ Photovoltaic power generation
- ✓ Pollution control techniques
- ✓ Nuclear technology and related issues
- ✓ Fuel cell power generation
- ✓ Phase change materials
- ✓ Improve the efficiency by nanofluid
- ✓ CFD Analysis

RESOURCE PERSONS

Resource persons will be invited from reputed institutions like IIT, NIT, Pondicherry University and Anna University along with in house experts from PEC to deliver lectures on the proposed topics.

ELIGIBILITY

The faculty members belonging to Mechanical, Electrical, Chemical, and Instrumentation Engineering disciplines from AICTE approved institutions, professional from industry and practising engineers are eligible to apply. Interested participants can send their registration form along with DD to in favour of "The Principal, PEC payable at Canara Bank. Admission will be offered subject to the availability based on QIP guidelines.

HOW TO APPLY

Duly filled in application form, as per the given format and duly recommended/sponsored by the competent authority should reach the coordinator on or before 27-10-2017. Application form can also be downloaded from www.pec.edu. Advance copy by email shall be accepted subject to confirmation.

REGISTRATION FEE

Faculty* : Rs. 1,000/- (Refundable)
Industrial Persons : Rs. 10,000/- (Non-Refundable)

* Refundable to those faculty members who have successfully completed the course

IMPORTANT DATE

Last date for receipt of applications : 27.10.2017
Intimation of selection through email : 01.11.2017

ACCOMMODATION

Boarding and lodging for outstation participants will be arranged. The participants have to request in advance along with the application form for accommodation. The participants are eligible for III-Tier A/C train fare. However, the TA amount will be refunded upon producing the actual bus/train tickets. They are not eligible for travel DA.

QIP Sponsored One Week Short Term Course

RECENT DEVELOPMENTS IN CONVENTIONAL AND NON CONVENTIONAL ENERGY RESOURCES

06th to 10th Nov 2017

Application Form

Name :
Date of birth and age :
Designation :
Department :
Academic Qualifications :
Specialization :
Area of research interest :
Gender : Male/Female
Institution :
Is the institution approved by AICTE : Yes/No
Experience :
Teaching :
Industry/R&D :
Address for communication :
E-mail :
Telephone/mobile number :
Accommodation required : YES/NO
Details of course fee: DD No :
Date: Amount: Bank: