

## Karpagam College of Engineering

One week short term training program  
on  
“Biofuels and its Applications in I.C  
Engines”  
Registration form

1. Name: .....

2. Designation: .....

3. Organization:.....

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4. Mailing Address:

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Ph. No:.....

Email:.....

D.D No..... Amount .....

Name of the Bank.....

Date of D.D.....

Date: Signature of Applicant

Office seal Signature of the Head  
of Institution

### ABOUT THE INSTITUTE

The Karpagam College of Engineering, established in the Year 2000, is an Autonomous Institution, Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai. The college offers various Under Graduate and Post Graduate Engineering programmes. The College is accredited by NAAC with 'A' Grade.

### ABOUT THE DEPARTMENT

Department of Mechanical Engineering was established in the year 2000 during the inception of the college and is one of the prime departments of our college and offers a 4 year B.E programme in Mechanical Engineering and 2 year M.E programme in Mechatronics. The department of Mechanical Engineering has a dynamic team of faculty and supporting staff members. The department has Anna University authorized research centre and centre of excellence and well-established laboratories.

### ADDRESS FOR CORRESPONDENCE

**Dr. Mubarak. M**

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One week short term training  
program on

## **BIOFUELS AND ITS APPLICATIONS IN I.C ENGINES**

**June 10-14, 2019**

**Coordinator**

**Dr. Mubarak. M**

**Assistant Professor**

**Organized by**

**Biofuel Research Centre**

**Department of Mechanical Engineering**



**MYLERIPALAYAM VILLAGE  
OTHAKKALMANDAPAM POST  
COIMBATORE- 641032**

## INTRODUCTION

Biofuels are the fuels which are predominantly derived from non-fossilized biomass. In view of increased emissions and escalating prices due to import of fuel explores the usage of biofuels as alternate fuels for diesel engines.

The biofuel research centre target to concentrate the production, characterization and utilization of biodiesel from various vegetable oils like waste frying oil, pongamia, jatropha etc.



## COURSE CONTENTS

- Overview about Biofuels
- Overview about IC Engines
- Biodiesel Production techniques
- Hands on session on biodiesel production
- Characterization of Biofuels
- Utilization of Biofuels in Engines
- Thermochemical conversion of biomass
- Biochemical conversion of biomass
- Introduction to Biomix concept
- FAME analysis and its application in biodiesel quality
- Algae biofuel production
- Sustainability of biofuel

Along with theory sessions participants can form groups and use the last sessions on each day for doing miniproject and can present it on the 5<sup>th</sup> day.

## OBJECTIVES

- To create awareness on Biofuels
- To introduce the production of different biofuels
- To gain practical exposure on production, characterization and utilization of biodiesel
- To understand the concept of biomix and importance of FAME analysis

## ELIGIBILITY –(Who Should Attend?)

This is an interdisciplinary programme. We would like to encourage UG and PG students, research scholars and faculty members who are interested in Biofuels with specialization in any engineering or science are eligible to apply. The candidates with specialization in Mechanical/ Automobile/Chemical Engineering shall be given preference.

## IMPORTANT DATES

Last date of receipt of fully filled application: 1/06/2019

Intimation of selection: 03/06/2019

## REGISTRATION FEE

Academicians from Institutes : Rs.2000

Research Scholars and PG Students : Rs.1500

UG Students: Rs.1000

Industry Personnel: Rs.3000

The registration fee shall be paid through a crossed demand draft drawn in favour of “KARPAGAM COLLEGE OF ENGINEERING”, payable at COIMBATORE and has to be sent along with the registration form.

## HOW TO APPLY

Application in the attached format along with the demand draft towards registration fee should reach the Coordinator on or before 01/06/2019.

## SELECTION

Selection will be on first come first served basis. Total number of participants for the workshop is limited to 50. Candidates selected will be intimated on 3/06/2019 through e-mail. All further communications also will be through e-mail only. On the spot registration is also allowed based on availability of seats.

## ACCOMMODATION

The participants can be provided accommodation within the campus on payment of additional charges subject to availability.