

## About the programme

The objective of this programme is to impart knowledge on the basics, analysis and applications of alternative fuels for IC engines energy. Participation in this programme will be helpful for young teachers engaged in research works in the synthesis, characterization and application of the alternative fuels in the field of automobile engineering. The Faculty Development Programme covers analytical and experimental technology that is used to study and understand the mechanisms and applications of alternative fuel technology.

## Topics covered

- Need for alternative fuels
- Potential alternative fuels for automobile applications
- Synthesis/ production of alternative fuels
- Use of refuse oils
- Characterization techniques
- Experimental investigations on IC engine performance with alternative fuels
- Emission aspects
- Nano additives

## Eligibility

The faculty members of AICTE approved Institutions, Universities, research scholars; participants from Government, Industry (Bureaucrats/ Technicians/Industry experts etc.) and professionals from R&D labs.

Number of participants is limited to 200. There is no course fee and preference will be given to new participants. Selection of the participants will be based on the first come first serve basis.

## Registration

Registration has to be done only through

<https://atalacademy.aicte-india.org/>

For more information, kindly visit

<https://aralacademy.aicte-india.org/FAQs>

## Online Platform

Due to the COVID 19 situation, the entire FDP will be conducted through online mode. The details of the online platform and the program link will be sent to the registered participants by email and whatsapp.

It is mandatory to attend the test that will be conducted in the last day of the FDP related to the topics covered. It is also mandatory for the participants to have a minimum of 80% attendance and 60% marks in the test to earn the certificate.



**AICTE Training and Learning (ATAL)**

**Academy**

**Online Faculty Development  
Programme (FDP)**

**on**

**Alternate Fuels**

**8<sup>st</sup> – 12<sup>th</sup> December, 2020**

*Coordinator*

**Dr. M. CHANDRASEKAR**

*Organized by*



**DEPARTMENT OF MECHANICAL  
ENGINEERING**

**University College of Engineering**

**BIT campus**

**Anna University**

**TIRUCHIRAPPALLI – 620024**

**www.aubit.edu.in**

## **AICTE –Teaching and Learning (ATAL) Academy**

The main objectives of the ATAL Academy are

- To plan and help in imparting quality technical education in the country a
- To support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.
- To stress upon empowering technical teachers & technicians using Information & Communication Technology
- To utilize SWAYAM platform and other resource for the delivery of trainings.
- To provide a variety of opportunities for training and exchange of experiences Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.
- To support policy makers for incorporating training as per requirements

### **About The Institute**

University College of Engineering, BIT campus, Anna University Tiruchirappalli, Tamilnadu is a state owned Technical University affiliated to Anna University Chennai. It offers UG, PG and PhD programmes in all the major disciplines of engineering and

technology. The Institute of was supported with TEQIP II grant.

### **About The Department**

The Department of Mechanical Engineering of Anna University, BIT Campus, Tiruchirappalli was started in the year 2008 and has dedicated teachers. The department offers programme (i) B.E. in Automobile and Mechanical Engineering, (ii) M.E., in Energy Engineering, and (iii) PhD in Mechanical Engineering.

The Department has research activities funded by CSIR, DRDO and CTDT, Anna University Chennai. The department has also played host to research fellows from foreign Universities under the Ambit of CICS, Chennai.

More than 150 papers have been published in Journals with impact factor and Science Citation Index in the following research areas

- Alternative fuels for IC engines
- Fatigue behavior of friction stir welded alloys
- Advanced cooling technologies
- Composite and smart materials
- Aerodynamics
- Ergonomics
- Solar photovoltaics

### **Chief Patron**

**Dr. M.K. Surappa, FNA, FNAE**  
Hon'ble Vice-Chancellor  
Anna University Chennai



### **Patron**

**Dr. L. Karunamoorthy** M.E., Ph.D.  
Registrar  
Anna University Chennai



### **Convener**

**Dr. Usha Natesan, Ph.D., D.Litt.**  
Director  
Centre for Constituent Colleges  
Anna University, Chennai



### **Co-Convener & Organizing secretary**

Dr. T. Senthilkumar  
Professor & Dean  
University college of Engineering,  
BIT Campus Tiruchirappalli

### **Chair**

Dr P. Gopal  
Asst. Professor & Head,  
Dept. of Auto. and Mech. Engg.

### **Coordinator**

Dr. M. Chandrasekar

### **Co-Coordinator**

Dr. G. Mahadevan