

Introduction:

The fuel powered vehicles are main source of transportation from olden days. The fuel powered engine works on petroleum products. There has been drastic change in technologies of fuel powered vehicles, which focuses on engine design development, usage of alternate fuels like CNG, Biogas etc.

Hybrid electric vehicles are the combination of conventional and battery-powered electric vehicles. They can adopt the advantages and avoid the shortcomings of both. It has been recognized that HEVs are the major substitutes of conventional vehicles before chemical batteries have substantive progress in energy density, safety, and cost.

Fuel cell vehicles have been the feasible solution as the future high-efficiency and clean resources. Compared to conventional vehicles, fuel cell vehicles are independent from the petroleum by-products and are capable of high efficiency and zero emissions.

Modern vehicles are developed to assist the users with more efficient and reliable working environment. The various sensors used in Engine management system, Vehicle control system makes the ride more comfortable, safer, and efficient. The Autonomous vehicles are major source of interest for many companies. The actuators, sensors, processors are involved in high performance computers to execute complex data of modern vehicles.

Objectives:

- To create awareness on IC Engines, Fuel Cell and other alternative energy for automotive sector.
- To understand the fundamentals of self driving cars, digital manufacturing related to automotive technology.
- To understand the transition of Automotive industry from conventional to modern vehicles.

Contents:

- Electronic Fuel Management Systems for ICE
- PEM Fuel Cells
- From Biogas to Bio-CNG
- Alternate Energy for Automotive Applications
- 3D Printing and Design, IOT
- Hybrid Electric Vehicles
- Automotive design optimization by using AI
- Image Processing and Sensors

Resource Persons:

Dr. G. Nagarajan
Professor
CEG, Main Campus, Anna University, Chennai

Dr G. Naga Srinivasulu
Associate Professor, NIT, Warangal

Dr. B. B. Sahoo
Associate Professor, VIT, Vellore

Dr. P. Soma Sundaram
Professor, Kongu Engineering College, Erode

Dr. M. Venkat Ramana
Professor, VNRVJIET, Hyderabad

Dr. Amjad Shaik
Professor, VNRVJIET, Hyderabad

Mr. Kalyan Srinivas
Assistant Professor, VNRVJIET, Hyderabad

Mr. Anudeep
Assistant Professor, VNRVJIET, Hyderabad

Dr. R. Aruna
Associate Professor, Veltech University, Chennai

Mr. M. Naresh Kumar
Assistant Professor, GITAM University, Hyderabad

Mr. T. Srinivasa Rao
Assistant Professor, GITAM University, Hyderabad

Important Dates:
Last Date for receiving applications:
17th July 2021

Date of Intimation to the Selected Candidates: 18th July 2021

Registration Fee: No registration fee

Registration Link:
<https://forms.gle/RTZ5V48Juv4LnCaP8>

Contact Details:
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APPLICATION FORM

5-Day Faculty Development Program on
“Fuel powered, Hybrid Electric and
Modern Vehicles”

19-24 July 2021

Name (in Block Letters):

Qualification :

Experience :

Designation :

Department :

Organization :

Address for
Communication :

E-mail :

Mobile No :

Office Phone No. :

Place:

Date:

Signature of the candidate

5-Day Faculty Development Program on
“Fuel powered, Hybrid Electric and
Modern Vehicles”
19-24 July 2021



Estd.1995

Organized by
Department of Automobile Engineering
**VNR Vignana Jyothi Institute of Engineering
and Technology**
An Autonomous Institute & Accredited by
NAAC with 'A++' Grade
Bachupally, Nizampet (S.O)
Hyderabad-500090
Telangana State, INDIA
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About the College

VNR Vignana Jyothi Institute of Engineering and Technology (VNRVJiet), sponsored by “VIGNANA JYOTHI”, an educational society, started by a group of Industrialists, Technocrats and Professionals, has started functioning from the year 1995. The Institute is an established, premier research and innovation driven engineering college which has made a mark for itself in providing quality education for more than two decades. The Institute is approved by AICTE and affiliated to JNTUH. The Institute offers 13 B.Tech. and 13 M.Tech. and Ph.D. (AICTE-NDF, JNTUH) Programmes with 6500 students on rolls. It has UGC Autonomous status up to A.Y. 2028-2029 and has been accredited by NAAC “A++” grade, B.Tech. programs CE, EEE, ME, ECE, CSE, EIE, IT are accredited by NBA. The Institute got 127 NIRF rank in Engineering category in NIRF 2020. It is consistently ranked among the top few engineering colleges at the national level and in both the states of Telangana and Andhra Pradesh. The Institute is also rated “Diamond” in Overall category by QS I-GAUGE.

About the Department

The Department of Automobile Engineering commenced with an undergraduate programme in the year 2010. Keeping itself up-to-date with the latest developments in the field with a dedicated team of highly qualified and experienced faculty in various streams of automobile engineering, the Department consistently strives to provide world-class facilities for education and research. The Department has laboratories with modern and state-of-the-art equipment, well-furnished seminar hall and a library with a collection of various journals, magazines and books. The Department also maintains a close liaison with a number of Industries through faculty research and collaborative projects. Industry training and identifying industry relevant problems for research is a special characteristic of the programmes offered by the Department. Faculty members are continually publishing the results of their research work as technical papers in international and national journals and conferences.

Patrons:

Dr. D. N. Rao
President, Vignana Jyothi
Sri. K. Harishchandra Prasad
General Secretary, Vignana Jyothi

Co-Patron:

Dr. C. D. Naidu
Principal, VNRVJiet

Chief Advisors:

Dr. B. Chennakesava Rao
Director for Advancement, Dean-Admin., VNRVJiet
Dr. K. Anuradha, Professor, Dean-Academics, VNRVJiet

Convener:

Dr. T. Srinivasa Rao
Professor & Head
Department of Automobile Engineering

Coordinator:

Mr. T.S. Krishna Kumar Assistant Professor

Co-Coordinator:

Mr. M. Venkata Ramarao Assistant Professor
Mr. MohamadAziz Athani Assistant Professor
Mr. M. Krishna Assistant Professor

Organizing committee Members:

Dr. M. Venkata Ramana Professor
Dr. Shaik Amjad Professor
Mr. G.V.L. Prasad Assistant Professor
Mr. T. Praveen Kumar Assistant Professor
Mr. R. Ramu Assistant Professor
Mr. T. Raju Assistant Professor
Mr. Ch. VamshiKrishna Assistant Professor
Mr. B. Pavan Bharadwaja Assistant Professor
Mr. D. Suresh Assistant Professor
Ms. J. Snothaswini Assistant Professor
Dr. V. Rathinam Assistant Professor
Mr. Nagaraj A Shet Assistant Professor
Mr. Balappa Hadagali Assistant Professor
Ms. K. Gowthami Assistant Professor