

**01. "Two day National workshop on "Electric Mobility and its Ecosystem"**

**17.02.2020 to 18.02.2020**

Kiran Raj Koli, CDO AVERA Renewable Energy Moto Corp Tech PVT. LTD. Vijayawada



## 02. Five Day Online Faculty Development Program “Sustainable Mobility Solutions in the Indian Context”

27.07.2020 to 31.07.2020

### About the Institute:

“Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology” was established by the ‘Vignana Jyothi’ Society as a not -for- profit organization in the year 1995, with a motto to provide value-based higher education on par with international standards. The Philosophy of Vignana Jyothi unravels education as a process of “Presencing” that provides, both individually and collectively, to one’s deepest capacity to sense and experience the knowledge and activities to shape the future.

The Institute is established with the permission of AICTE. Institute offers 9 B.Tech. 13 M.Tech., Ph.D. Programs. All the courses offered by the institute are affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad. The institute is recognized under section 2(f) and 12(B) of the UGC Act, 1956. The Institute is accorded Autonomous status by UGC for 6 years in 2012 and Extension of Autonomous Status is accorded for 10 years in 2018. Institute is Accredited by NAAC with ‘A++’ Grade and CGPA 3.73 in Cycle-II in 2018. The institution is granted with “College with Potential for Excellence (CPE)” status by UGC for five years w.e.f 2016. AICTE has identified the institute as a Research Institute under the National Doctoral Fellowship scheme and 5 Departments are recognized as Research Centres by JNTUH Hyderabad. Institute is certified by International Standards Organisation (ISO) with ISO 9001:2015 certificate. QS i-GAUGE awarded “Diamond” college rating and E-LEAD (E-Learning Excellence for Academic Digitation) Certification. MHRD, India has ranked the institute at 127<sup>th</sup> rank in the Engineering category and 151-200 rank band in the Overall category in NIRF 2020.

### About the Department:

The Department of Automobile Engineering was started in the year 2010 with an intake of 60. 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 a modern and state-of-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 many Industries through faculty research and collaborative projects. Industry training and identifying industry-relevant problems for research is a special characteristic of the programs 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.

### Organising Committee

#### Chief Patrons

**Dr. D.N. Rao**, President-Vignana Jyothi

**Mr. K. Harishchandra Prasad**  
General Secretary-Vignana Jyothi

#### Patron

**Dr. C. D. Naidu**, Principal, VNRVJIEET

#### Convener

**Dr. T. Srinivasa Rao**

Professor and Head, AED

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In association with



### Five Day Online Faculty Development Program (FDP)

on

### Sustainable Mobility Solutions in the Indian Context

(27<sup>th</sup> – 31<sup>st</sup> July 2020)



Organized by

Department of Automobile Engineering



VNR Vignana Jyothi Institute of Engineering and Technology

Vignana Jyothi Nagar, Pragathi Nagar  
Nizampet (S.O), Hyderabad – 500 090  
Telangana State, India

### Overview of the Program:

The Automotive industry has matured strongly and accounted as an important pillar of the global industry. India is playing a predominant role in the global automotive industry stands as the sixth largest producer of automobiles. However, the rapid increase in fuel prices, coupled with concerns for the environment and air quality, has led automotive engineers to seek alternatives to a powertrain based on petroleum products. Alternative fuels like bio-fuels, propane, hydrogen, and natural gas in the gaseous and liquefied form are increasingly gaining market shares. In addition to the significant progress of conventional powertrains, the use of alternative fuels, that contribute to fuel economy and emissions reduction and the alternative powertrain technologies based on the electric traction are presenting new solutions to improve the transport system in terms of environmental quality and energy saving.

In a scenario where the social and ecological sustainability of surface transport is in the interest of the nation and industries, the Department of Automobile Engineering of VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad intended to organize a five-day faculty development programme on Sustainable Mobility Solutions in Indian Context. This FDP will address the technological developments regarding alternative energy sources and powertrain technologies to promote more sustainable mobility, which involves talking about alternative fuels like biofuels, natural gas, propane and hydrogen and alternative powertrain systems like electric, hybrid, plug-in hybrid, and fuel cell vehicles. This FDP also provides a platform for interaction where experts from industry, academia, and research institutes share their views and experience.

### Objectives of the Program:

The main objective of this program is to enlighten the participants about the various advancements in the fields of sustainable mobility which would help them in pursuing their research at their respective institutes. The fundamental outcome is to update the audience with state-of-the-art developments in the area of sustainable mobility and kindle their research interest to develop more mobility solutions to meet the requirements.

### Who Can Participate?

This Online Faculty Development Program (FDP) is open to Faculty members, Industry Professionals engaged in Automobile Engineering, any other allied areas, and Research Scholars and Post Graduate students.

### How to Apply:

Eligible candidates may apply by submitting the details through the Google form before 26<sup>th</sup> July 2020 (12:00 PM).

### No Registration Fee

<https://forms.gle/tZzrnMGf1izLwQZ6>

### Confirmation of Participation:

On receipt of the registration form, participants will be sent a confirmation of their participation through E-mail by 26<sup>th</sup> July 2020. The details regarding schedule and link for online platforms will be shared only to registered participants through the mail. The number of participants for this program is limited to 250 only (first come first serve basis). E-Certificate will be provided to those who have attendance >75%, filled the daily feedback form.

### Topics:

- Electric and Hybrid Electric Vehicles
- Electric Vehicle–Emission & Thermal Management
- PEM Fuel Cell Technology and Applications
- BS6 Emission Technology
- Hydrogen Fuel Technology for Mobility Application
- Well-to-Wheel Efficiency of Fuels in Indian Context

### Resource Persons:

Eminent speakers with academic, industry, and research experience will share the current advances in sustainable mobility.

**Dr.G. Naga Srinivasulu**

Assoc. Prof., MED, NITW, Warangal.

**Dr. V. Himabindu**

Prof., Centre for Environment, JNTUH, Hyd.

**Dr. Bhaskar Tamma**

Prof., MED, Mahindra École Centrale, Hyd.

**Dr. Manish K Agarwal**

Asst. Prof., MED, Mahindra École Centrale, Hyd.

**Mr. S. Bhanu Prakash**

SQE, Mahindra & Mahindra, Zaheerabad

**Dr. Shaik Amjad**

Prof., AED, VNRVJIEET, Hyd.

**Mr. D. Suresh**

Asst. Prof., AED, VNRVJIEET, Hyd.

**Stay Home Stay Safe and Wish you a Happy Learning**

Go to Settings to activate



## VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with 'A++' Grade  
Approved by AICTE, New Delhi, Affiliated to JNTUH  
Recognized as "College with Potential for Excellence" by UGC  
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad-500090



### *Certificate of Participation*

This Certificate is to appreciate

**Suresh Devunuri**

From

**VNRVJIET**

for actively participating in the

**Five Day Online Faculty Development Program (FDP) on  
"Sustainable Mobility Solutions in the Indian Context"**

Organized by the **Department of Automobile Engineering**  
during  
**27<sup>th</sup> - 31<sup>st</sup> July 2020.**

Reg. No: 072404140

Mr. Suresh Devunuri  
Co-ordinator

Dr. T. Srinivasa Rao  
Prof. & Head/AE

Dr. C D Naidu  
Principal



### 03. After Treatment systems for BS VI Vehicles 24.02.2021

Dr.P.Senthil Kumar, Associate professor, Automobile Engineering , MIT Campus, Anna University

The screenshot shows a Google Meet interface with a presentation slide titled "EXHAUSTION". The slide content is as follows:

- Exhaust Gas Recirculation (EGR) is a system that allows the exhaust gases to be recirculated back into the intake manifold. This process leads to a significant reduction in nitrogen oxides (NOx) emissions because it reduces the two elements underlying its production: oxygen in excess and combustion temperature.
- There are two types of EGR:
- internal exhaust gas recirculation (iEGR):** the exhaust gases are sucked back in the cylinder by overlapping the opening time of the intake and exhaust valves
- external exhaust gas recirculation EGR:** exhaust gases are recirculated back into the intake manifold by using an external duct and an additional valve (EGR valve)

The interface also shows a list of participants in the call, including Krishna Kumar, Abilash Selvarajan, Amjad Shaik, Anilkumar s, Debi Sahoo, devaraj raj, and DEVUNURI SURESH.

**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
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Recognized as "College with Potential for Excellence" by UGC  
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad-500090

**Certificate of Participation**

This Certificate is to appreciate  
**Mr. K. Kodanda Ram**  
From  
**VNR Vignana Jyothi Institute of Engineering and Technology**  
for actively participating in the One-Day Webinar on  
**"After Treatment Systems for BS VI Vehicles"**  
Organized by the **Department of Automobile Engineering** on **24 February 2021**

Mr. T.S. Krishna Kumar  
Co-ordinator

Dr. T. Srinivasa Rao  
Prof. & Head/AE

Dr. C D Naidu  
Principal

## 04. Two-day National level Seminar on Characterization and Machinability Studies of Metal Matrix Composites & Friction stir welding

26.02.2021 To 27.02.2021

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the title "DECODING BS VI NORMS". Below the title, it says "Presented by Dr. P. Senthil Kumar, Associate Professor, Department of Automobile Engineering, MIT Campus". The slide features a globe, a car, and a green plant growing from a globe. On the right side, there is a "People" list with 20 participants, including Dr.P.Senthilkumar MIT,ANNA UNIVERSITY, karthik gorle, shalini vemula, RAMAVATH DA..., Prasad GVL, Debi Sahoo, Periyasamy Pillai, santhosh M, Automobile He..., and siva kumar. The bottom of the screen shows the meeting controls, including a "REC" button, a "Raise hand" button, and a "Turn on captions" button. The system tray at the bottom indicates the time is 11:05 on 24-02-2021.

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the title "AMERICAN EMISSION STANDARDS". The slide content includes the logos for CALIFORNIA AIR RESOURCES BOARD and EPA, and a list of bullet points: "In the United States, emissions standards are managed by the Environmental Protection Agency (EPA). The state of California has special dispensation to announce more stringent vehicle emissions standards, and other states may choose to follow either the national or California standards.", "California's emissions standards are set by the California Air Resources Board, 'CARB'. Given that California's automotive market is one of the largest in the world, CARB wields enormous influence over the emissions requirements that major automakers must meet if they wish to sell into that market.", and "In addition, several other U.S. states also choose to follow the CARB standards, so their rulemaking has broader implications within the U.S.". On the right side, there is a "People" list with 20 participants, including Dr.P.Senthilkumar MIT,ANNA UNIVERSITY, BALAPPA BIRAPPA HADA... and 9 more, P, D, V, and others. The bottom of the screen shows the meeting controls, including a "REC" button, a "Raise hand" button, and a "Turn on captions" button. The system tray at the bottom indicates the time is 11:26 on 24-02-2021.

## 05. One-day National level Webinar on

06.07.2021

Dr.K Prabhu, Associate Professor, Dept. of Automobile Engineering, VIT.

REC Prabu Krishnasamy is presenting

"Stay positive.  
Better days are  
on their way."

Prabu Krishnasamy Venkata Ramana M Manikanta Sirimalla amjad Shaik Aziz Athani 38 others You

2:37 PM | Vehicle Control Systems - Webinar

This screenshot shows a Zoom webinar interface. The main video area displays a motivational quote: "Stay positive. Better days are on their way." over a background image of a sunset over a road. The top bar indicates the presenter is Prabu Krishnasamy. The bottom toolbar shows various controls like mute, video, chat, and a red phone icon. A 'People' panel on the right lists participants in the call, including KRISHNA KUMAR TS (You), aakanksha E, Akshith Yamsani, amjad Shaik, arunika M, Aziz Athani, bheemsagar D, deepshikareddy A, Fardeen Khan, and GIRIDHARSAI G.

REC Prabu Krishnasamy is presenting

Vehicle Development

- Vehicle Design
  - Chassis Engg
  - Powertrain Engg
  - Body Engg
  - Air conditioning Engg
  - Electrical Engg
  - Electronics Engg
- Vehicle Styling
  - Exterior Body design
  - Interior Body design
- Vehicle Engg
  - Vehicle safety Engg
  - Vehicle Dynamics
  - NVH Engg
  - Vehicle Durability
  - Vehicle Packaging

Prabu Krishnasamy Venkata Ramana M Krishna amjad Shaik Aziz Athani Muhammad Muh... 40 others You

2:46 PM | Vehicle Control Systems - Webinar

33°C AQI 80 14:46 07-07-2021

This screenshot shows a Zoom webinar interface with a presentation slide. The slide is titled "Vehicle Development" and features a hierarchical diagram. The diagram branches into three main categories: "Vehicle Design", "Vehicle Styling", and "Vehicle Engg". Under "Vehicle Design", sub-items include Chassis Engg, Powertrain Engg, Body Engg, Air conditioning Engg, Electrical Engg, and Electronics Engg. Under "Vehicle Styling", sub-items are Exterior Body design and Interior Body design. Under "Vehicle Engg", sub-items are Vehicle safety Engg, Vehicle Dynamics, NVH Engg, Vehicle Durability, and Vehicle Packaging. The Zoom interface shows the presenter Prabu Krishnasamy and a 'People' panel with participants like KRISHNA KUMAR TS (You), Akshith Yamsani, amjad Shaik, anil v, arunika M, Aziz Athani, bhana B, and bheemsagar D. The bottom of the screen shows system information: 33°C, AQI 80, 14:46, and 07-07-2021.

## 06. 5-Day Faculty Development Program on “Fuel powered, Hybrid Electric and Modern Vehicles” (Virtual mode)

19.07.2021 to 24.07.2021

**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, VNRVJMET, Hyderabad

**Dr. Amjad Shaik**  
Professor, VNRVJMET, Hyderabad

**Mr. Kalyan Srinivas**  
Assistant Professor, VNRVJMET, Hyderabad

**Mr. Anudeep**  
Assistant Professor, VNRVJMET, Hyderabad

**Dr. R. Aruna**  
Associate Professor, VIT, 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:  
17<sup>th</sup> July 2021  
Date of Intimation to the Selected Candidates: 18<sup>th</sup> July 2021  
Registration Fee: No registration fee  
Registration Link:  
<https://forms.gle/RTZ5V48Juv4LnCaP8>  
Contact Details:  
Mr. T.S. Krishna Kumar, Assistant Professor  
8526805763, krishnakumar\_ts@vnrvmjmet.in

**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

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




Estd. 1995

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[www.vnrvmjmet.ac.in](http://www.vnrvmjmet.ac.in)

**About the College**  
VNR Vignana Jyothi Institute of Engineering and Technology (VNRVJMET), 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.

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President, Vignana Jyothi  
Sri. K. Harishchandra Prasad  
General Secretary, Vignana Jyothi

**Co-Patron:**  
Dr. C. D. Naidu  
Principal, VNRVJMET

**Chief Advisors:**  
Dr. B. Chennakesava Rao  
Director for Advancement, Dean-Admin., VNRVJMET  
Dr. K. Anuradha, Professor, Dean-Academics, VNRVJMET

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

**Coordinator:**  
Mr. T.S. Krishna Kumar      Assistant Professor

**Co-ordinators:**  
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. VamsiKrishna      Assistant Professor  
Mr. B. Pavan Bharadwaja      Assistant Professor  
Mr. D. Suresh      Assistant Professor  
Ms. J. Snthaswini      Assistant Professor  
Dr. V. Rathinam      Assistant Professor  
Mr. Nagaraj A Shet      Assistant Professor  
Mr. Balappa Hadagali      Assistant Professor  
Ms. K. Gowthami      Assistant Professor

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**CERTIFICATE OF PARTICIPATION**

This is to Certificate that

**Sahil Pahda**  
from  
**GCET Jammu**

has participated in the 5-Day FDP on "**Fuel powered, Hybrid Electric and Modern Vehicles**" organized by Department of Automobile Engineering, VNRVJIET, Hyderabad, during 19-24 July 2021

Mr. T.S. Krishna Kumar  
Co-ordinator

Dr. T. Srinivasa Rao  
Prof. & Head/AE

Dr. C D Naidu  
Principal



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INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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**CERTIFICATE OF PARTICIPATION**

This is to Certificate that

**Rutam Biswal**  
from  
**University of Allahabad**

has participated in the 5-Day FDP on "**Fuel powered, Hybrid Electric and Modern Vehicles**" organized by Department of Automobile Engineering, VNRVJIET, Hyderabad, during 19-24 July 2021

Mr. T.S. Krishna Kumar  
Co-ordinator

Dr. T. Srinivasa Rao  
Prof. & Head/AE

Dr. C D Naidu  
Principal



## 07. Future scope for Automobile Engineers

03.09.2021

<p><b>About the Webinar</b></p> <p>Automobile Engineering is one of the important branches in Engineering. Indian automotive industry is the Fifth largest vehicle manufacturers in the world with an annual production of 23 million vehicles (in FY 2020-21).</p> <p>In 2009, the vehicles per 1000 people of India is 18. In 2015, the vehicles per 1000 people of India is 22. In 2021, the vehicles per 1000 people of India is 30.</p> <p>The Automotive industry is one of the major sectors accounting 22% of the country's manufacturing GDP.</p> <p>Today an Automotive Engineer works in every area of the industry, from the look and mechanism of cars, security and safety of new forms of transport.</p> <p>Automobile Engineer's major task is to design, develop, manufacture &amp; testing of vehicles from the concept stage to the production stage.</p> <p><b>Top job profiles offered to Automobile Engineers by the top Indian and Foreign automotive companies like Ford, Hyundai, Renault Nissan, Volvo, Toyota, Royal Enfield, BMW, John Deere etc:</b></p> <ul style="list-style-type: none"> <li>Executive and Managerial Positions</li> <li>Driver Instrumentation Engineer</li> <li>Senior Production Engineer</li> <li>Automobile Designer</li> <li>Automotive Sales Engineer</li> <li>Dealer Account Manager</li> <li>Quality Engineer</li> <li>Service Engineer</li> </ul> <p><b>Objectives:</b></p> <ul style="list-style-type: none"> <li>To Create awareness to the participants about the scope of Automobile Engineering</li> </ul> <p><b>Contents:</b></p> <ul style="list-style-type: none"> <li>Future Scope for Automobile Engineers</li> </ul>	<p><b>Resource Person:</b> Dr. P. Mannar Jawahar., B.Sc., DMIT., M.E., Ph.D., PDR Vice Chancellor – Karunya University Ex. Vice Chancellor - Anna University</p> <p><b>Registration Link:</b> <a href="https://forms.gle/hEPPHcvrZ1t1boX6">https://forms.gle/hEPPHcvrZ1t1boX6</a></p> <p><b>Registration Fee: No registration fee</b></p> <p><b>Important Dates:</b> <b>Last Date for receiving applications:</b> 01<sup>st</sup> September 2021 <b>Date of Intimation to the Selected Candidates:</b> 02<sup>nd</sup> September 2021</p> <p><b>Google meet link:</b> <a href="https://meet.google.com/vxw-ioew-rtv">https://meet.google.com/vxw-ioew-rtv</a></p> <p><b>Contact Details:</b> Mr. T.S. Krishna Kumar Mobile No: 8526805763 E-mail: <a href="mailto:krishnakumar_ts@vnrvjiet.in">krishnakumar_ts@vnrvjiet.in</a> Web site: <a href="http://www.vnrvjiet.ac.in">www.vnrvjiet.ac.in</a></p>	<p><b>APPLICATION FORM</b> Webinar on <b>FUTURE SCOPE FOR AUTOMOBILE ENGINEERS</b> <b>03<sup>rd</sup> September 2021</b></p> <p>Name (in Block Letters): .....</p> <p>Qualification : .....</p> <p>Experience : .....</p> <p>Designation : .....</p> <p>Department : .....</p> <p>Organization : .....</p> <p>Address for Communication : .....</p> <p>E-mail : .....</p> <p>Mobile No : .....</p> <p>Office Phone No.: .....</p> <p>Place: .....</p> <p>Date: .....</p> <p style="text-align: right;">Signature of the candidate</p>
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<p style="text-align: center;">Webinar on <b>FUTURE SCOPE FOR AUTOMOBILE ENGINEERS</b> <b>03<sup>rd</sup> September 2021</b></p>   <p style="text-align: center;">Organized by <b>Department of Automobile Engineering</b> <b>VNR Vignana Jyothi Institute of Engineering and Technology</b> An Autonomous Institute &amp; Accredited by NAAC with 'A++' Grade Pragathi Nagar, Nizampet (S.O) Hyderabad-500090 Telangana State, INDIA</p>	<p><b>About the College</b> 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.</p> <p><b>About the Department</b> 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.</p>	<p><b>Patrons:</b> Dr. D. N. Rao President, Vignana Jyothi Sri. K. Harishchandra Prasad General Secretary, Vignana Jyothi</p> <p><b>Co-Patron:</b> Dr. C. D. Naidu Principal, VNRVJiet</p> <p><b>Chief Advisors:</b> Dr. B. Chennakesava Rao Director for Advancement, Dean-Admin., VNRVJiet Dr. K. Anuradha, Professor, Dean-Academics, VNRVJiet</p> <p><b>Convener:</b> Dr. T. Srinivasa Rao Professor &amp; Head Department of Automobile Engineering</p> <p><b>Coordinator:</b> Mr. T.S. Krishna Kumar      Assistant Professor</p> <p><b>Co-Coordinator:</b> Mr. R. Ramu      Assistant Professor Mr. M. Krishna      Assistant Professor</p> <p><b>Organizing committee Members:</b></p> <table border="0"> <tr><td>Dr. M. Venkata Ramana</td><td>Professor</td></tr> <tr><td>Dr. Shaik Amjad</td><td>Professor</td></tr> <tr><td>Mr. G.V.L. Prasad</td><td>Assistant Professor</td></tr> <tr><td>Mr. T. Praveen Kumar</td><td>Assistant Professor</td></tr> <tr><td>Mr. T. Raju</td><td>Assistant Professor</td></tr> <tr><td>Mr. Ch. Vamshi Krishna</td><td>Assistant Professor</td></tr> <tr><td>Mr. B. Pavan Bharadwaja</td><td>Assistant Professor</td></tr> <tr><td>Mr. D. Suresh</td><td>Assistant Professor</td></tr> <tr><td>Mr. M. Venkata Ramarao</td><td>Assistant Professor</td></tr> <tr><td>Mr. MohamadAziz Athani</td><td>Assistant Professor</td></tr> <tr><td>Ms. J. Snothaswini</td><td>Assistant Professor</td></tr> <tr><td>Dr. V. Rathinam</td><td>Assistant Professor</td></tr> <tr><td>Mr. Nagaraj A Shet</td><td>Assistant Professor</td></tr> <tr><td>Mr. Balappa Hadagali</td><td>Assistant Professor</td></tr> <tr><td>Ms. K. Gowthami</td><td>Assistant Professor</td></tr> </table>	Dr. M. Venkata Ramana	Professor	Dr. Shaik Amjad	Professor	Mr. G.V.L. Prasad	Assistant Professor	Mr. T. Praveen Kumar	Assistant Professor	Mr. T. Raju	Assistant Professor	Mr. Ch. Vamshi Krishna	Assistant Professor	Mr. B. Pavan Bharadwaja	Assistant Professor	Mr. D. Suresh	Assistant Professor	Mr. M. Venkata Ramarao	Assistant Professor	Mr. MohamadAziz Athani	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
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**08. THREE DAY-NATIONAL LEVEL SEMINAR on “Future Vehicle Technologies for Green Environment” NSFVTGE’22**  
**16.02.2022 To 18.02.2022**



**VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
An Autonomous institute, NAAC accredited with A++ Grade (3.73/4.0), ISO 9001-2015 certified, QS I-GAUGE Diamond rating  
Approved by AICTE, New Delhi, Affiliated to JNTUH, Recognized as “College with Potential for Excellence” by UGC

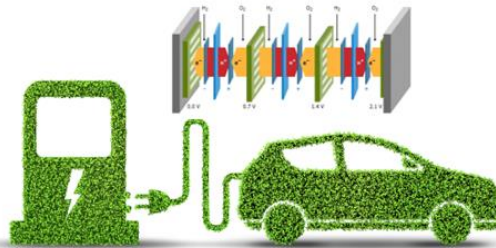


**Department of Automobile Engineering**  
**Organizing 3 Day-National Level Seminar on**  
**Future Vehicle Technologies for Green Environment**



**Sponsored by:**  
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**Online Event during**  
**16-18 February 2022**  
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**Convener:**  
**Dr. T. Srinivasa Rao**  
Professor and Head- Automobile Engineering  
**Organizing Secretary**  
**Mr. T. S. Krishna Kumar**  
Assistant Professor – Automobile Engineering

**Coordinators:**  
**Mr. R. Ramu**  
Assistant Professor – Automobile Engineering  
**Mr. T. Praveen Kumar**  
Assistant Professor – Automobile Engineering

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# FDP on Emerging Technologies in Automotive Industry

## About the Institute:

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-NDT, 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 was started in the year 2010 with an intake of 60. 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 a modern and state-of-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 many Industries through faculty research and collaborative projects. Industry training and identifying industry-relevant problems for research is a special characteristic of the programs 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

## Convener:

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

## Coordinators

Mr. Devunuri Suresh	Assistant Professor
Mr. Ch. Vamshikrishna	Assistant Professor
Mr. B. Pavan Bharadwaja	Assistant Professor

## Organizing committee Members:

Dr. M. Venkata Ramana	Professor
Dr. Shaik Amjad	Professor
Mr. G.V.L. Prasad	Assistant Professor
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Ms. K. Gowthami	Assistant Professor

## Five Day Online Faculty Development Program (FDP)

on

## Emerging Technologies in Automotive Industry (16<sup>th</sup> – 20<sup>th</sup> AUGUST 2021)



Organized by

Department of Automobile Engineering



VNR Vignana Jyothi Institute of Engineering and Technology

Vignana Jyothi Nagar, Pragathi Nagar  
Nizampet (S.O), Hyderabad – 500 090  
Telangana State, India

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## Overview of the Program:

The Automotive industry has matured strongly and accounted as an important pillar of the global industry. India is playing a predominant role in the global automotive industry stands as the sixth largest producer of automobiles. However, the rapid increase in fuel prices, coupled with concerns for the environment and air quality, has led automotive engineers to seek alternatives to powertrain. Alternative fuels like biofuels, propane, hydrogen, and natural gas in the gaseous and liquefied form are increasingly gaining market shares. In addition to the significant progress of conventional powertrains, the use of alternative fuels, that contribute to fuel economy and emissions reduction and the alternative powertrain technologies based on the electric traction are presenting new solutions to improve the transport system in terms of environmental quality and energy saving.

The main objective of this program is to enlighten the participants about the various advancements in the fields of mobility which would help them in pursuing their research at their respective institutes. The fundamental outcome is to update the audience with state-of-the-art developments in mobility and kindle their research interest to develop more mobility solutions to meet the requirements

## Objectives of the Program:

The main objective of this program is to enlighten the participants about the various advancements in the fields of sustainable mobility which would help them in pursuing their research at their respective institutes. The fundamental outcome is to update the audience with state-of-the-art developments in sustainable mobility and kindle their research interest to develop more mobility solutions to meet the requirements.

## Who Can Participate?

This Online Faculty Development Program (FDP) is open to Faculty members, Industry Professionals engaged in Automobile Engineering, any other allied areas, and Research Scholars and Post Graduate students.

## How to Apply:

Eligible candidates may apply by submitting the details through the Google form before 15<sup>th</sup> August 2021.

## No Registration Fee

<https://forms.gle/IRHskfaAqBTUbcX6>

## Confirmation of Participation:

On receipt of the registration form, participants will be sent a confirmation of their participation through E-mail by 15<sup>th</sup> August 2021. The details regarding schedule and link for online platforms will be shared only to registered participants through the mail. The number of participants for this program is limited to 250 only (first come first serve basis). E-Certificate will be provided to those who have attendance >75%, filled the daily feedback form.

## Topics:

- Technology of Materials for Sustainable Transportation
- Charging Stations for Electric Vehicle
- Battery Swapping Technology
- Application of E-Mobility for Industrial Transport
- Recent Trends in Fuel Cell Applications
- Traction Electrics for E-Mobility
- Construction of Motors for E-Mobility
- Design Optimization of Motors for E-Mobility
- Opportunities for Start-up in E-Mobility
- Connected Vehicles

## Contact Details

Mr. D. Suresh, Asst. Professor,  
suresh\_d@vnrviuet.in

## Resource Persons:

Eminent speakers with academic, industry, and research experience will share the current advances in sustainable mobility.

**Dr. R. Gopalan**  
Director, ARCI, Chennai.

**Mr. M. Desai**  
DGM, ARAI, Pune.

**Mr. S. Ravi**  
Hybrid Fuel Solutions Pvt. Ltd.

**Mr. Jaith Sharma**  
MD, Tejaswi Green Energy Pvt. Ltd.

**Dr. U.K Choudhury**  
Prof & Director (I&I), CBIT, Hyd.  
(Ex. ED, CTM, BHEL)

**Mr. S. Easwar Rao**  
Sr. DGM, BHEL R&D

**Mr. Balwanth Reddy,**  
Manager, BHEL R&D

**Dr. Y. Chandra Shekar,**  
Asst. Prof., Department of EEE, NITW

**Mr. Shirish S. Mane,**  
Asst. Prof., Department of AE, RIT, Sangli

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**Five Day Faculty Development Program  
on  
EMERGING TECHNOLOGIES IN AUTOMOTIVE INDUSTRY**

**16<sup>th</sup> – 20<sup>th</sup> August 2021**

Coordinators

Mr. D. Suresh, Ch. Vamshikrishna, B. Pavan Bharadwaja

Day/Time	10:30 am to 12:00 am		02:30 pm to 04:00 pm
16.08.2021 (Mon)	Inauguration and Keynote Session on Technology of Materials for Sustainable Clean Energy Transportation By <i>Dr. R. Gopalan, Director, ARCI, Chennai</i>	<b>B R E A K</b>	Certification Testing of Electric & Hybrid Vehicles in India By <i>Mr. M. Desai, DGM, ARAI, Pune</i>
17.08.2021 (Tue)	Application of E-Mobility for Industrial Transport Application By <i>Mr. Jatil Sharma, MD, Tejaswi Green Energy Pvt. Ltd. Hyderabad</i>		Charging Stations for Electric Vehicles By <i>Mr. S. Eswar Rao, Sr. DGM, BHEL R&amp;D, Hyderabad</i>
18.08.2021 (Wed)	Recent Trends in Fuel Cell Applications By <i>Mr. S. Ravi, Hybrid Solutions Pvt. Ltd. Delhi</i>		Development of Traction Electrics for E-mobility Application By <i>Mr. Balwanth Reddy, MANAGER, BHEL R&amp;D, Hyderabad</i>
19.08.2021 (Thu)	Connected Vehicles By <i>Mr. Shirish S Mane, Asst.Professor, RIT, Sangli</i>		Multi-Objective Optimal Scheduling of Electric Vehicle batteries in Battery Swapping Station By <i>Dr. Y. Chandrashekar, Asst.Professor, NITW, Warangal.</i>
20.08.2021 (Fri)	Trends, Challenges and Construction for Compact & Energy efficient Special motors for electric mobility By <i>Dr. U.K. Choudhury, Prof &amp; Director (I&amp;I), CBIT, Hyderabad. (Ex. Executive Director, CTM, BHEL)</i>		Design Optimization of PM and Induction motors to suit E-mobility application & Opportunities for startups. By <i>Dr. U.K. Choudhury, Prof &amp; Director (I&amp;I), CBIT, Hyderabad. (Ex. Executive Director, CTM, BHEL)</i>

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