

**Three Day Online Workshop
on**

Electric Vehicles

In Association With



(Aug 10 – 12, 2020)



ORGANIZED BY

**DEPARTMENT OF MECHANICAL
ENGINEERING**

**GAYATRI VIDYA PARISHAD
COLLEGE FOR DEGREE AND P.G.
COURSES (A)**

ENGINEERING & TECHNOLOGY PROGRAM

(Approved by AICTE & Affiliated to Andhra University)

Accredited by NBA, NAAC, ISO 9001:2015

GAYATRI VIDYA PARISHAD

Gayatri Vidya Parishad, a pioneer educational society was established and registered on 28th September, 1998 in the city of destiny and harmony, Visakhapatnam. It was established by an ardent group of erudite academicians with a view to serving the cause of higher education. Stalwarts in the field of education and philosophy **Prof. Bhavaraju Sarveswara Rao**, former professor of Economics and former Vice-Chancellor, Acharya Nagarjuna University, **Dr. B. Swamy**, former member of All India Medical Council and former Vice-Chancellor, Acharya Nagarjuna University, **Sri D.V. Subba Rao**, former Mayor, GVMC and former two-time chairman, Bar Council of India, **Sri. A.S.N. Prasad**, An eminent industrialist in Visakhapatnam, adored as the presidents of GVP and steered it to greater heights. The present president **Prof. P.S. Rao** is an eminent professor and researcher of international repute, present Vice - Presidents **Sri D. Dakshina Murthy**, **Prof. P.V. Sarma** and **Prof. P. Soma Raju**, the Secretary, Gayatri Vidya Parishad are known for their scholarship and administrative acumen.

ENGINEERING & TECHNOLOGY PROGRAM

The **Engineering & Technology program (E&T)** is a part of Gayatri Vidya Parishad College for Degree & P.G. Courses (A), having Engineering courses in a Degree college is a unique feature. It is approved by AICTE and affiliated to Andhra University, accredited by NAAC, the E&T Program was established in the year 2011 with the motto of imparting value-based Quality Technical Education. The E&T Program offers four-year B.Tech courses in the branches CSE, ECE, Civil Engineering and Mechanical Engineering. students are placed in reputed multi-national companies in various parts of our country. Some of the students are under going higher studies in IITs, NITs and prestigious universities abroad.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was started in the year 2011 with an objective of developing techno-human resources to meet the technological challenges and societal needs. The Department of Mechanical Engineering is accredited by NBA. It possesses dedicated and highly qualified teaching fraternity having good research focus, state-of-the art facilities, entrepreneurship guidance cell and good interaction with industry. The department is conducting student seminars, expert lectures, and technical expos, entrepreneurship awareness camps, training programs on advanced technological developments etc., with the support of DST and other supporting agencies periodically. The student chapters such as Institution of Engineers (IEI), ISHRAE and CMSI are actively functioning for imparting knowledge to the student community on recent trends in various fields of Mechanical Engineering. There is an endless guidance, support themselves and encouragement for student community to nurture innovators, decision-makers and technology leaders in the global economy of the 21st century.

ALTAIR

Altair Engineering Inc. is an American multinational information technology company headquartered in Troy, Michigan. They provide product design and engineering. Altair HyperWorks is the most comprehensive open-architecture simulation platform, offering best-in-class technologies to design and optimize high performance, efficient and innovative products. Altair helps in solving your toughest challenges. Helping the innovators innovate, drive better decisions, and turning today's problems into tomorrow's opportunities. Simulation-driven approach to innovation is powered by integrated suite of software which optimizes design performance across multiple disciplines encompassing structures, motion, fluids, thermal management, electromagnetics.

ABOUT THE WORKSHOP

To spread awareness among the participants towards the technological challenges associated with the Electric Vehicles. As Electric Vehicles (EV) are complex systems. The workshop provides the excellent knowledge on various analysis that are carried out on the Electric Vehicles

OBJECTIVES OF THE PROGRAM

Turning the attention of the automobile manufactures and the public towards Electric vehicles (EV).
To explore more ideas, better understanding of EV designs and performance improvement.

TOPICS WILL BE COVERED

- *e-Mobility Challenges & Solutions Using Altair Hyperworks*
- *Optimization of e-Vehicle Chassis Frame*
- *Torsion, Bending and Normal Mode Analysis of Chassis*
- *Battery Thermal Analysis*
- *Noise analysis of Half Car Model*
- *Multiphysics Simulation*
- *Crash Analysis of Full Car Model*
- *Electric Motor Design and Analysis Using FLUX*
- *Vibro Acoustic Analysis using FLUX and Optistruct*

TARGET GROUP

Faculty / Ph.D. scholars / M.Tech./ ME students of Engineering discipline, participating engineers from public and private sectors

❖ In case of any further queries please contact:

Sri. Ch. Murali, Mobile: 8523805717

CHIEF PATRONS

Prof. P.S.RAO

President, Gayatri Vidya Parishad

Sri D. DAKSHINA MURTHY

Vice-President, Gayatri Vidya Parishad

Prof. P.V. SARMA

Vice-President, Gayatri Vidya Parishad

PATRONS

Prof. S. RAJANI

Principal, GVPCDPGC

Prof. D. SARITHA

Vice-principal, GVPCDPGC

Prof. S. RAJA

Director, Engg. &Tech. Program, GVPCDPGC

WORKSHOP CONVENER

Dr. P.V. VINAY

Professor & Head of the Department

(Mechanical Engineering)

WORKSHOP CO-ORDINATORS

Sri. Ch. Hima Gireesh

Sri. Ch. Murali

ORGANIZING COMMITTEE

Prof. K.G. Durga Prasad

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Sri M.V. Prasad

Sri. P. Krishna Murthy

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Dr. K. Chandra Sekhar

REGISTRATION FORM

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(To be filled in block letters)

Name of the participant:

Qualification:

Name of the Institution:

Address:

E-mail ID:

Contact No:

Payment Reference No:

The registration fee for the FDP is **Rs.100** per candidate. Registered candidates will be provided with E-Certificates.

Bank details:

Account Number : 64082834150

Account Name : Gayatri Vidya Parishad College
for Degree and PG Courses,
TCSOE

IFSC Code : SBIN0040546

Online Registration Link:

<https://forms.gle/z6CJNEH4msx9zunz5>

I request you to kindly consider my candidature for the Three-Day Online Workshop on “**Electric Vehicles**” which is to be held online from Aug 10 – 12, 2020

Date:

Signature of the Participant