

WORKSHOP ON ELECTRICAL VEHICLES

April 11-12, 2024



Organising by
Department of Electrical engineering
In Association with



About :

Electric vehicles (EVs) are automobiles powered by electric motors, using electricity stored in rechargeable batteries. They produce zero tailpipe emissions, making them environmentally friendly. EV technology has been rapidly advancing, leading to increased range, faster charging times, and improved affordability. Governments and companies worldwide are investing heavily in EV infrastructure and development to accelerate their adoption and reduce dependence on fossil fuels. These batteries store electrical energy, which is then used to drive the vehicle's wheels, eliminating the need for traditional internal combustion engines. Electric vehicles represent a promising and increasingly viable alternative to conventional gasoline vehicles, offering environmental, economic, and performance benefits. Continued investment in research, development, and infrastructure will be crucial to accelerate their adoption and transition towards a more sustainable transportation system.

Learning outcomes

The students will:

- Understand the technology which is used in EV's
- Grasp the environmental benefits of electric vehicles
- Able to analyze the economic aspects of electric vehicles
- Explore the planning, design, and implementation of electric vehicle

Pedagogy:

- * Hands-on training
- * Interactive and participative
- * Individual supervision

Resource Person:

Shri N. Venkata Reddy, MS (UK), MBA, Founder & CEO of VIHAAN ELECTRIX & TECK TEAM SOLUTIONS which is upgraded as TECKYBOT now. He had done his Master's in UK in area of Specialization of Intelligent Systems & Robotics.

Having an experience of 09 years as successful Entrepreneur as Founder in set up of

TECKYBOT (formerly known as TECK TEAM SOLUTIONS) - A Training & Innovative Product development firm at Visakhapatnam, engaged in Motivating students through Seminars, building Entrepreneurship, support Academic Projects, Technical Workshops at Engineering colleges, hence established 250 ATAL TINKERING LAB (ATL) in various schools of AP thereafter ventured into the sector of ELECTRIC VEHICLES.



Workshop Topics :

- Introduction to electric vehicles
- Future of electric vehicles
- Four wheeler, Three wheeler and Two wheeler models
- Two wheeler-internal parts
- Charging stations
- Hydrogen vehicles
- Introduction assembling and assembling

Registration Fee:

Workshop – 200/-

Venue :

Reading Room, Akshaya Block,
RGUKT Srikakulam

Certification :

Participation certificates will be awarded subject to meeting participation criteria i.e. 100% attendance and Post Training Evaluation.

About the Host Institution :

The primary objective of establishing RGUKT was to provide high quality educational opportunities for the aimed rural youth of Andhra Pradesh. The initial goal was that at least the top 1 % of the rural graduates would be given the opportunity to study at RGUKT.

The top 1% of rural graduates is around 6,000 to 7,000 per year. Thus, the three campuses would need residential accommodation for about 36,000 students for the six year integrated program.

At present, most universities in India and in Andhra Pradesh follow the affiliated college structure model where the main role of the university is to set the curriculum and conduct examinations to ensure that the students have indeed learned the material prescribed in the curriculum. Most colleges have an entering class of 100-300. Having an entry class of 6,000 students leads to issues of scale. This is unique to RGUKT and is being attempted for the first time in India. In the US, several of the larger universities do have enrolments of 20,000 to 30,000. However not all of them tend to be residential universities

Organizing Committee:

PROGRAM CONVENER

MS. P. GOUTAMI, M.Tech, HOD of EEE.