



**AICTE Training & Learning (ATAL) Academy  
Sponsored**

**FACULTY DEVELOPMENT PROGRAM**

**on**

**Certain Aspects of Electric  
Vehicles to achieve Sustainable  
Energy**

**(Offline mode: 11<sup>th</sup> – 16<sup>th</sup> December 2023)**



**Organized by:**

**Department of Electrical and Electronics  
Engineering**

**(Accredited by NBA under Tier - I)**



**VIGNAN'S LARA INSTITUTE OF TECHNOLOGY  
AND SCIENCE**

**(Autonomous)**

**An ISO 9001:2015 Certified Institution**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, KAKINADA)  
Vadlamudi, Guntur**

**Web: <https://www.vignanlara.org>**

### **About the Institute**

Vignan's Lara Institute of Technology & Science, was established with the aim of providing quality technical education at Vadlamudi, Guntur District, Andhra Pradesh in the year 2007 under the aegis of Lavu Educational Society and headed by experienced academician and visionary Dr. Lavu Rathaiah. The college is located at Vadlamudi, on the Guntur-Tenali highway, about 15kms from Guntur and 12kms from Tenali. It is affiliated to Jawaharlal Nehru Technological University Kakinada, approved by AICTE, New Delhi.

We were accredited with NAAC and NBA (CSE, IT, ECE, EEE & MECH) under Tier-I valid up to 2024-25. This institute has permanent affiliation with JNTUK Kakinada. College got autonomous status for ten years. The College has also been awarded 2(f) and 12(B) statuses. This institution has been identified as Mentor Institution by AP State Higher Education to support the mentee colleges in the process of NAAC accreditation.

### **About the Department**

The department of EEE was established during the inception of the institute in 2007. We have well-qualified faculty with doctorates from renowned institutions such as IIT, NIT and state universities. The main goal of the department is to produce young engineers of high knowledge, competent and resourceful who can execute well in variety of jobs. To achieve this goal the department is making committed efforts in nurturing a formidable base both in analytical and technological aspects. Every year our students secure placements in reputed MNCs and some are going for higher education. The Department is establishing the practice of inviting specialists from other reputed institutions to deliver extension lectures

### **About the FDP**

Current environmental concerns are driving the world towards the development of hybrid and electric vehicles to replace traditional internal combustion engine vehicles. The widespread adoption of plug-in electric vehicles (EV) will improve the air quality. However, Electric Vehicle is a new type of load for the grid. The existing grid was not designed for this new type/pattern of load, which corresponds to the battery charging systems of Electric Vehicles. Undeniably, with the advent of V2G and G2V, electric vehicles can actively promote the development of smart grid through two-way communication. Therefore, this FDP is investigating how electric vehicles can achieve a sustainable energy future, since electric vehicle batteries offer an untapped opportunity to store electricity from renewable sources.

The goal of this FDP is to unite the faculty and researchers around the country to discuss latest trends & technology available on Electric vehicles to achieve sustainable energy. The FDP will provide the opportunities to flourish the knowledge and pursue research in these areas. Each session is enriched with the well-experienced resource person who has great skill set in this research area.

### **Topics to be covered in FDP:**

- **Fundamentals of Electric vehicles**
- **Present status of electric vehicles in India**
- **Impact of EVs on grid**
- **Possible solutions to reduce negative impacts**
- **Advancements in V2G/ G2V Technologies**
- **Fundamentals of Renewable energy systems**
- **EVs for Sustainable energy**

**Resource Persons:**

- 1) Dr.T.Ramesh,NIT AP
- 2) Dr.Pendem Suneel Raju, NIT Allahabad
- 3) Dr.Dogga Raveendhra, NIT Allahabad
- 4) Dr.LN Sastry Varanasi, Director RT Limited
- 5) Dr.B Jayababu,VLITS,Vadlamudi
- 6) Dr.Vuddanti Sandeep, NIT AP

**Committee members:****Chief Patron**

Dr. L. Rathaiah,Chairman

**Patron**

Sri. L. Sri Krishnadevarayalu,Vice-Chairman

**Principal**

Dr. K. Phaneendra Kumar

**Coordinator**

Dr.B Jayababu,Associate Professor,EEE

**Co-Coordinator**

Mr.M .Nagaraju, Assistant Professor,EEE

**Advisory Committee:**

- 1) Dr.Srinivas Bhaskar Karanki,IIT Bhubaneswar
- 2) Dr.Ch.Saibabu ,JNTUK Kakinada
- 3) Dr.Y.P Obulesu,VIT Vellore
- 4) Dr.S Sivanagaraju,JNTUK Kakinada
- 5) Dr. G Nageswarareddy,Yogi Vemana University
- 6) Dr.K Vimal Kumar,JNTUN,Narasaraopet
- 7) Dr.P Radhika,VNITSW,Guntur
- 8) Dr.Siva Vara Prasad , LBRCE,Mylavaram
- 9) Dr.Y.S.Kishore Babu,JNTUN,Narasaraopet
- 10) Dr.K.Venkata Reddy, JNTUK Kakinada
- 11)Dr.G Durga Sukumar,VITS,Hyderabad

**Organizing Committee:**

All the Faculty Members of Department of EEE

**Registration and Fee Particulars:**

- No Registration Fee
- Selection as per AICTE ATAL guidelines & first cum- first-serve basis. Participants are limited to 50.
- Registration for the Program may be done by signing up in the ATAL Portal.  
<https://atalacademy.aicte-india.org/>
- After clicking on the link, it will ask you for signup.
- Fill your details and submit the form.
- If you are having account previously, please use those credentials to login in the above link.

**Who can attend?**

- Faculty Members of AICTE Approved Institutions
- Research Scholars
- Persons working in R&D Organizations
- Industry Persons & PG Students

**Certificate Criteria:**

- A test will be conducted at the end of the program.
- Minimum Attendance needed: 80%
- Exam Score: Minimum 60% marks in the test

**Important Dates:**

|                             |            |
|-----------------------------|------------|
| Last date to register       | 05/12/2023 |
| Date of confirmation        | 07/12/2023 |
| Date of Commencement of FDP | 11/12/2023 |

**FDP Timings:** 09:30AM to 5:30PM

**For any queries contact:**

Dr.B.Jayababu 9949725753

Mr.M.Nagaraju 9989317450

**REGISTRATION FORM**

**Six Days**

**AICTE Training and Learning (ATAL)  
Academic FDP Programme**

**Certain Aspects of Electric Vehicles to  
achieve Sustainable Energy**

**[11<sup>th</sup>-16<sup>th</sup> December 2023]**

Name: -----

Designation: -----

Institute/Organization: -----

Mobile: -----

Email: -----

Date: -----

Signature of the Applicant with Date:

Signature of Authorized Signatory with Seal