



ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕಾಲೇಜು ಮತ್ತು ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ

DTE-CDC/1/2021-JD CDC-DEPT TECH EDUCATION

ಆಯುಕ್ತರವರ ಕಛೇರಿ

ಕಾಲೇಜು ಮತ್ತು ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ,

ಅರಮನೆ ರಸ್ತೆ, ಬೆಂಗಳೂರು-560 001.

ದಿನಾಂಕ: 22/07/2021.

:-ಸುತ್ತೋಲೆ:-

ವಿಷಯ:- ಸರ್ಕಾರಿ ಪಾಲಿಟೆಕ್ನಿಕ್, ಹರಪನಹಳ್ಳಿ ಇಲ್ಲಿ ಎಐಸಿಟಿಇ ಟೈನಿಂಗ್ ಅಂಡ್ ಲರ್ನಿಂಗ್ (ATAL) ಅಕಾಡೆಮಿ, ನವದೆಹಲಿ ಇವರು ಪ್ರಾಯೋಜಿಸಿ ಮತ್ತು ಅನುಮೋದಿಸಿರುವ ಆನ್-ಲೈನ್ ಅಲ್ಯಾವಧಿ ತರಬೇತಿ ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಅನುಮತಿ ನೀಡುವ ಬಗ್ಗೆ.

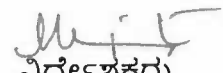
ಉಲ್ಲೇಖ:- ತಮ್ಮ ಕಛೇರಿ ಪತ್ರ ಸಂಖ್ಯೆ: ಸಪಾಹ/01/ಸಿಸಿಟೆಕ್/2021-22/27, ದಿನಾಂಕ:24/05/2021.

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖಿತ ಪತ್ರದನ್ವಯ ಎಐಸಿಟಿಇ ಟೈನಿಂಗ್ ಅಂಡ್ ಲರ್ನಿಂಗ್ (ATAL) ಅಕಾಡೆಮಿ,ನವದೆಹಲಿ ಇವರು ಪ್ರಾಯೋಜಿಸಿ ಮತ್ತು ಅನುಮೋದಿಸಿರುವ 05 ದಿನಗಳ ರಾಷ್ಟ್ರಮಟ್ಟದ ಆನ್‌ಲೈನ್ ತರಬೇತಿ ಕಾರ್ಯಕ್ರಮವನ್ನು ದಿನಾಂಕ:30/08/2021 ರಿಂದ 03/09/2021 ರವರೆಗೆ FDP "Revolution & Advances in E-Vehicles ಎಂಬ ವಿಷಯದ ಬಗ್ಗೆ ಸರ್ಕಾರಿ ಪಾಲಿಟೆಕ್ನಿಕ್, ಹರಪನಹಳ್ಳಿ ಇಲ್ಲಿ ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿರುವ ಬೋಧಕ ಸಿಬ್ಬಂದಿಗಳಿಗೆ ಆನ್-ಲೈನ್ ಅಲ್ಯಾವಧಿ ತರಬೇತಿ ಕಾರ್ಯಕ್ರಮವನ್ನು ಹಮ್ಮಿಕೊಳ್ಳಲು ಉದ್ದೇಶಿಸಿದ್ದು, ಸದರಿ ಆನ್-ಲೈನ್ ಅಲ್ಯಾವಧಿ ಕಾರ್ಯಕ್ರಮವನ್ನು ಆಯೋಜಿಸಲು ಅನುಮತಿ ನೀಡಲಾಗಿದೆ.

ಸಂಬಂಧಿಸಿದಂತೆ, ಸದರಿ ಆನ್-ಲೈನ್ ತರಬೇತಿ ಪಡೆದುಕೊಳ್ಳಲು ಇಚ್ಛಿಸುವ ಬೋಧಕ ಸಿಬ್ಬಂದಿ ವರ್ಗದವರು ವೆಬ್‌ಸೈಟ್: <https://www.aicte-india.org/atal> ನಲ್ಲಿ ನೋಂದಾಯಿಸಿಕೊಳ್ಳಲು ಸೂಚಿಸಲಾಗಿದೆ.

ಆನ್-ಲೈನ್ ತರಬೇತಿಯನ್ನು ಆಯೋಜಿಸಿರುವ ಸಂಸ್ಥೆಯ ಪ್ರಾಚಾರ್ಯರು ಸದರಿ ತರಬೇತಿಗೆ ಆಯ್ಕೆಗೊಂಡ ಬೋಧಕ ಸಿಬ್ಬಂದಿ ವರ್ಗದವರಿಗೆ ಇಲಾಖೆಯಿಂದ ಅನುಮೋದನೆ ಪಡೆದು ಆನ್-ಲೈನ್ ತರಬೇತಿ ನಡೆಸಲು ಸೂಚಿಸಲಾಗಿದೆ.

  
ನಿರ್ದೇಶಕರು

ಹಾಗೂ

ಜಂಟಿ ನಿರ್ದೇಶಕರು(ಸಿಡಿಸಿ)



ಇವರಿಗೆ,

ಪ್ರಾಚಾರ್ಯರು, ಸರ್ಕಾರಿ ಪಾಲಿಟೆಕ್ನಿಕ್, ಹರಪನಹಳ್ಳಿ-ಮಾಹಿತಿಗಾಗಿ ಹಾಗೂ ಮುಂದಿನ ಕ್ರಮಕ್ಕಾಗಿ.

ಪ್ರತಿ: ಇಲಾಖೆಯ ಇ-ಆಡಳಿತ ವಿಭಾಗಕ್ಕೆ ವೆಬ್-ಸೈಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು.

### Scope of FDP:

The Electrical Power System operation and control has to be restructured to face the challenges of plug-in Electric Vehicles (EV) evolution. The knowledge in EV drive, Battery Energy Storage (BES), Fast-charging circuitry, Battery Management System (BMS) control, protection and communication protocols are imperative for Engineers working in these domains. This FDP is aimed at training the participants on the Revolution of Electric vehicles and future expectations in the aforementioned areas by experts from Industry & Institutions. This FDP will also facilitate the participants to acquire hands-on training in this field through various related systems modelling and simulation.

### Objective of the Course:

In the context of present raising fuel charges, increasing pollution, the present course is designed to give a thorough insight on the electric vehicles which is expected to rule the future and which is aimed:

- ❖ To create an overall subjective impact of electric Vehicles.
- ❖ To provide knowledge and analysis skills associated with the operation of electric vehicles.
- ❖ Familiarize the participants about EV configuration/ components and its interaction with power grid.
- ❖ Creating awareness on impact of EV evolution on operation and control of Electrical Power System
- ❖ To present a problem oriented in-depth knowledge of Battery management system to address the underlying concepts, methods and application on electric vehicles.

### About the Institution:

Government Polytechnic Harapanahalli was established by Govt. Of Karnataka in the year 2009. The institution is working under Department of Collegiate & Technical education, Government of Karnataka and affiliated to AICTE, New Delhi with the intake of 240 students per year.

Institution campus is spread over 10 acres situated in the Shivmogga-Hospet highway, near Ananthanahalli. The institution has classrooms with CCTV surveillance, well equipped laboratories, workshop laboratories and highly qualified and dedicated teaching staff and supporting staff. There are two Ladies hostels and a Boys hostels in the campus which are under construction.

The institution is having student friendly environment and very good nature in the campus. Also training and placement department has achieved very good milestones in sending students to various companies.

### Courses offered by our institution:

- 1) Civil Engineering
- 2) Computer Science & Engineering
- 3) Electronics & Communication Engg.
- 4) Mechanical Engineering

### About ATAL Academy:

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of faculties and students to make them more employable to acquire global competencies.

## AICTE TRAINING AND LEARNING (ATAL) ACADEMY SPONSORED



## National level One-week Online Faculty Development Programme On Revolution & Advances in E-Vehicles

30-08-2021 to 03-09-2021



Organized By:



[173]-GOVERNMENT POLYTECHNIC,  
SHIVAMOGGA-HOSPET ROAD  
NEAR ANANTHANAHALLI  
HARAPANAHALLI-583131  
VIJAYANAGARA DIST., KARNATAKA  
Inst. Ph. No: +91 94485-23484  
email ID : principal.gpth@gmail.com

## Course content

The prime focus of this FDP is to focus on the various thrust areas with which the field of e vehicles has evolved over a period of time.

This involves:

- 1) Introduction to e-Vehicles
- 2) Revolution of e-Vehicles
- 3) Over View of Electric Vehicle & Govt. Policies
- 4) Hybrid Electric Vehicle and its performance
- 5) Electric Vehicle Mechanics and Modelling
- 6) PM motor Drives for EVs
- 7) Induction Machine Drives for EVs
- 8) High Energy Batteries
- 9) Charging Stations & Wireless Chargers
- 10) PWM Techniques for Inverters

The expected outcome of the FDP is: After the successful completion of the Programme, the participants will be able to

- o Appreciate the significance of interdisciplinary approach both from academic and industry perspective.
- o Understand the need of the e vehicles
- o Acquire process and interpret the different dimensions of the technology in order to identify the potential research areas.

## Registration Fee:

For this FDP, there is **NO registration Fee.**

## How to Register?

Register to the ATAL Academy using Website

<https://www.aicte-india.org/atal>

<https://atalacademy.aicte-india.org/signup>

## Who can Register?

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) and staff of host institutions.

## Organizing Committee:

### Chief Patron:

**Sri. Pradeep P. IAS**

Honorable Commissioner

Department of Collegiate & Technical Education  
Government of Karnataka

### Patron:

**Sri. Devaraj M S**

Principal Grade-I

Government Polytechnic, Harapanahalli

### Programme coordinator:

**Sri. Druvakumar K**

Lecturer, Science Department

Government Polytechnic, Harapanahalli

Mob: +91 98441-97172

e-mail ID : [polestarputta@gmail.com](mailto:polestarputta@gmail.com)

&

Head of Departments and All Staff  
Government Polytechnic, Harapanahalli

**COURSE TIMINGS: 09.30 am TO 04:30 pm**

## Certification:

ATAL Academy will issue the certificate to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

## Resource Faculty

The Resource persons for the course are well qualified and having wide experience in the field of Electric vehicles, Power grids and Installation of electric power supplies, who are drawn from the various industry and prominent academic institutions, R&D Organizations and the Industry.

## Resource persons:

❖ **Dr. Mohan Krishna. S**

Professor,  
Alliance University,  
Bengaluru.

❖ **Dr. Manikandan P**

Head, Center for Industrial automation,  
School of Engineering and Technology  
Christ (Deemed to be university), Bengaluru

❖ **Mr. Suraj S D**

CEO, Decibels labs

❖ **Mr. Haneesh K M**

Assistant Professor, Dept. of EEE  
School of Engineering and Technology  
Christ (Deemed to be university), Bengaluru  
&

Many Resource persons from esteemed institutions  
& Industries

## For More details Contact:

**Mr. DRUVAKUMAR K**

Mob: +91 98441-97172

e-mail ID : [polestarputta@gmail.com](mailto:polestarputta@gmail.com)

## Inst. Website:

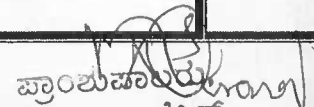
<http://dte.karnataka.gov.in/Institutes/gptharapanahalli/>

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## Follow us on twitter:

<http://twitter.com/TXdwAtEY7yHk2H2?s=08/>

  
ಸರ್ಕಾರಿ ಪ್ರಾಚಾರ್ಯರು  
ಹರಪನಹಳ್ಳಿ-583131. ಬಳ್ಳಾರಿ ಜಿಲ್ಲೆ.