



**Department of Mechanical Engineering
Academic year 2022-23 (EVEN)**

Circular

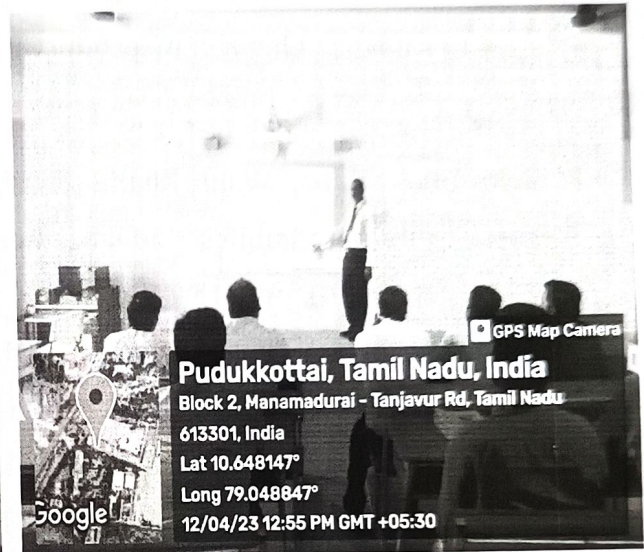
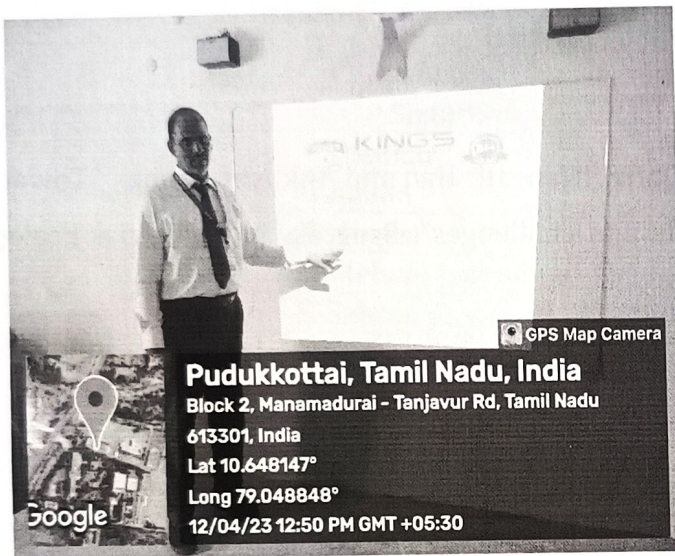
10.04.2023

This is to inform you that there will be an internal seminar going to be conducted by our Department on 12.4.23 at 12.30 p.m in the topic "Hybrid and Electrical Vehicle Design" by Dr.T.Pushparaj, HoD/Mechanical at Department Smart Classroom. Staff members are instructed to utilize the session and communicate your queries.

T. Pushparaj 10/4/23
HoD/Mech

Department of Mechanical Engineering
Academic year 2022-23 (EVEN)
Internal staff seminar Report

Date & time : 12.04.2023 & 12.30 p.m
Venue : Department Smart Classroom
Topic : Seminar on "Hybrid and Electrical Vehicle Design"
Resource person : Dr.T.Pushparaj, HoD/Mechanical



Snapshots of the session

Internal seminar on Hybrid and Electrical Vehicle Design has been delivered by Dr.T.Pushparaj, Professor, Department of Mechanical Engineering for the staff members of Mechanical Engineering on 12/04/2023 at 12.30 p.m.

Here few points are discussed:

In recent decades there is tremendous change in automobile industries. A systematic approach is adopted to present all the environmental conscious technologies in vogue in the automotive sector. The seminar focuses on the engine modification, materials used and the environmental hazard mitigation during the operation of the automobiles. An overview of the scope of hybrid vehicle usage in our country and the challenges while using this type of vehicles in day today life. In this seminar the personal safety devices in automobiles and its working principles also explained.

Chapters Discussed:

- Hybrid engine principle
- Merits and Demerits

- Electric vehicle (EV)
- Design principle
- Charging Technology
- Awareness of safety devices
- Scopes and challenges
- Books and articles

Outcomes:

Upon listing of this seminar the participants can able to


- Understand the hybrid engine technology and Electrical vehicle design.
- Understand the concepts of engine modification.
- Able to safeguard himself by productive devices.

References:

1. Zaid Ullah Baba, Wani Khalid Shafi, Mir Irfan Ul Haq and Ankush Raina, "Towards sustainable automobiles - advancements and challenges", Progress in Industrial Ecology, 2019, vol .13, (4), pp. 315-331.
2. Swapnil Namekar, Sneharthi Chattaraj, "Study of Electrical Vehicle", Journal of Innovative Research in Technology, 2020, vol.6, (12), pp.1-12.
3. Muhammad Yousaf Iqbal, Tie Wang, Guoxing Li, Dongdong Chen, Mohammad Al -Nehari "A Study of Advanced Efficient Hybrid Electric Vehicles, Electric Propulsion and Energy", Journal of Power and Energy Engineering, 2022, vol.10, pp.1000-1011.


DEPT IQAC CO-ORDINATOR 19/4/23


HOD/MECH 19/4/23


19/4/2023



Department of Mechanical Engineering
Academic year 2022-23 (EVEN)
Internal staff seminar attendance

Date & time : 12.04.2023 & 12.30 pm
 Venue : Department Smart Classroom
 Topic : Seminar on "Hybrid and Electrical Vehicle Design"
 Resource person : Dr.T.Pushparaj, HoD/Mechanical

Sno	Staff name	Signature
1	Dr.T.Pushparaj	<i>T. Pushparaj</i>
2	Dr.P.P.Shantharaman	<i>P.P. Shantharaman</i>
3	R.Shankar	<i>R. Shankar</i>
4	H.Agilan	<i>H. Agilan</i>
5	N.Magesh	<i>N. Magesh</i>
6	M.Melwin Jagatheesh Sridhar	<i>M. Melwin Jagatheesh Sridhar</i>
7	S. Sabanayagam	<i>S. Sabanayagam</i>
8	M.Sakthivel	<i>M. Sakthivel</i>
9	S.Desikan	<i>S. Desikan</i>
10	S.Nelson Raja	<i>S. Nelson Raja</i>
11	R.Rajadurai	<i>R. Rajadurai</i>
12	D.Balaji	<i>D. Balaji</i>
13	S.Balaganesh	<i>S. Balaganesh</i>
14	V.Aravind	<i>V. Aravind</i>
15	Mr.M.Vivekananthan	<i>M. Vivekananthan</i>

Internal staff seminar feedback summary:

S.no	Description	Good	Fair	Poor
1	Content of the speech	10	3	-
2	Voice of the speaker	9	3	1
3	Overall feedback	8	5	-

S.P. Sridhar
 19/4/23
 DEPT IQAC CO-ORDINATOR

T. Pushparaj
 19/4/23
 HOD/MECH