About FDP

Efficient transportation system is very crucial for economic growth of a country. In India, currently transport industries are contributing 5.5% in Nation's GDP. Our transportation sector is mainly depending upon hydrocarbon-based products such as petrol and diesel which leads to emission of harmful gaseous into the environment. The electric transportation system is an alternative solution to minimize the harmful impact on the environmental. India's vision is to produce nearly 10 million electric vehicles including two wheelers and four wheelers by 2020.

According to the Prime Minister's vision, by 2030 India will adopt 100 percent electric vehicle transportation system. India established National Energy Storage Mission (NESM), with an objective to create an enabling policy and regulatory framework for encouraging manufacturing, deployment, innovation and further cost reduction. In this perspective, Rocky Mountain Institute's recent report for NITI Aayog has proposed a three-stage solution approach: Creating an environment for battery manufacturing growth, Scaling supply chain strategies and Scaling battery cell manufacturing.

India has significant potential for use of energy storage technologies, apart from grid scale connections. The country could account for more than one-third of the global market for Electric Vehicle (EV) batteries by 2030, if it becomes a 100-percent EV nation. This has further been highlighted by the policy directions evolving from the MOVE initiative launched by the NITI Aayog.

Considering future prospective of EV technology in Indian market, clear direction on battery technology and manufacturing, a five days FDP is organized on Energy Storage with focus on Lithium Ion Battery Technology for Electric Vehicle under AICTE Training and Learning (ATAL) Academy FDP program.

Course Content

The major contents of the program are:

- Training on different cell chemistries and requirement for electric vehicle
- Cell, pack, and system-level components
- Training on testing of Lithium-Ion battery
- Working architecture of BMS and cell balancing
- Understanding of Battery safety
- Understanding of Battery module/Pack Assembly

Resource Persons

The course content will be delivered from a pool of resource persons on the subject from leading prestigious academic institutions/ industries.

Important information for Participants

- This FDP is for faculty members, research scholars, PG Scholars, participants from Government and Industry.
- The FDP will be conducted in online mode. Participants willing to participate in this online FDP should have the provision of laptop/desktop/smart phone with good quality internet connections as required for online training.
- Course Registration is free for all participants.
- On completion of the course an objective/quiz-based assessment of all participants will done. Those who have an attendance of minimum 80 % and score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

AICTE Training and Learning Sponsored
Online Faculty Development Program on "Energy Storage"

22th- 26th Feb, 2021

Organised by

Centre for Energy and Environment
Malaviya National Institute of Technology Jaipur
(Under Ministry of HRD, Govt. of India)
J.L.N. Marg, Jaipur-302017, Rajasthan

About MNIT Jaipur

Malaviya National Institute of Technology Jaipur (Deemed University) is one of the premier NITs, established by Ministry of Human Resource Development (MHRD), Government of India (GOI). The institute, prior known as MREC Jaipur was established in 1963 as a joint venture of the GOI and Government of Rajasthan. Later in 2002, the college was given the status of National Institute of Technology, and on 15 August 2007, pro- claimed Institute of National Importance through Act of Parliament. Its campus spreads over 325 acres of lush green area in the central location of Jaipur. It offers undergraduate and postgraduate courses to about 4500 students, in leading fields of engineering, technology, architecture, management, & sciences. Through the internationally renowned faculty, laboratories with state of art equipment and excellent infrastructure, the institute is actively engaged in research, consultancy, and developmental activities.

About Centre for Energy and Environment

Centre for Energy and Environment was established in 2012 to enable sustainable and cost-effective innovations and develop interactive facilities pertaining to the multi-disciplinary areas of renewable energy and environment. Currently Centre has 35 MTech students and registered 25 PhD scholars. Four Ph.D. has been awarded since inception of the centre and 5 M.Tech. batches have passed out with flying colors. Currently centre has 8 ongoing projects worth INR 4 crores and 62 lakhs from different National and International funding agencies; including Indo-UKRIE, Indo-Austria, ISHRE, DBT, DST, and MNRE.

Centre has established 6 ultra-modern functional labs with state of art and sophisticated instruments. A vast collaborative framework with reputed universities world over, the department offers ample opportunities for individual growth.

About ATAL

The objective of the academy is to set up an Academy which will plan and help in imparting quality technical education in the country.

To support technical institutions in fostering research. innovation and entrepreneurship through training. To stress upon empowering technical teachers & technicians using Information & Communication Technology.

To utilize SWAYAM platform and other resource for the delivery of trainings. To provide a variety of opportunities for training and exchange of experiences. Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.

To support policy makers for incorporating training as per requirements

Registration

The participants are requested to register online by using the following link:
https://atalacademy.aicte-india.org/

Address for Correspondence

Dr. Kapil Pareek
Centre for Energy and Environment,
Malaviya National Institute of Technology Jaipur
J.L.N. Marg, Jaipur-302017, Rajasthan.
Email:kapil.cee@mnit.ac.in
Mob+91-9549651019

AICTE Training and Learning
Sponsored
Online Faculty Development Program on
"Energy Storage"

22th- 26th Feb, 2021

Organising Committee

Patron
Prof. Udaykumar R Yaragatti
Director, MNIT Jaipur

Chairman
Prof. Jyotirmay Mathur, MNIT Jaipur
Dr. Vivekanand, MNIT Jaipur

Conveners
Dr. Aneesh Prabhakar, MNIT Jaipur
Dr. Amartya Chowdhury, MNIT Jaipur
Dr. Sunanda Sinha, MNIT Jaipur
Dr. Parul Mathuria, MNIT Jaipur

Coordinator
Dr. Kapil Pareek, MNIT Jaipur

Advisory Committee
Prof. Susanta Banerjee, IIT Kgp
Prof. Jyh Tsung Lee, Taiwan
Dr. Akhil Garg, CART-IIT Delhi
Dr. Rohit Bhakar, MNIT Jaipur
Dr. Pawan Kumar, IMRE Singapore
Dr. Pravin Jagadale, IIT Italy