

RESOURCE PERSONS

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

OTHER IMPORTANT INFORMATION FOR PARTICIPANTS

- This FDP is only for faculty members of the AICTE approved institutions, 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 and other audiovisual facilities, as required for online training.
- **Course Registration is free for all participants.**
- **Seats are limited (only 50)** and the participants are selected by organizers on first come first serve basis.
- Shortlisted candidates will be informed through their email.
- 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.

REGISTRATION

Participants interested to attend this program Should register online in the below mentioned link:

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

Last date for registration: **17.10.2020**
Selected participants will be informed through email.

CONTACT DETAILS

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For Further Assistance:

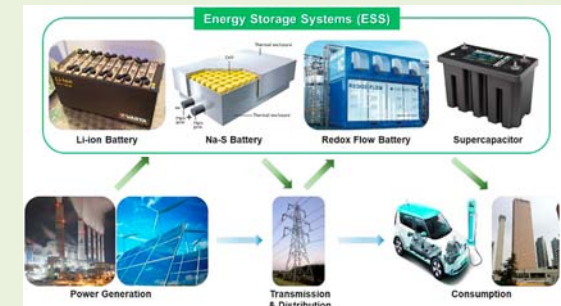
Mr. K. Sridharan, Research Scholar
Contact: 9994179911



**AICTE Training and Learning
Sponsored**

**ONLINE
Faculty Development Program on
“Energy Storage”**

27th Oct 2020 – 31st Oct 2020



Organized By

**Indian Institute of Information Technology
Design and Manufacturing, Kancheepuram
(Under Ministry of HRD, Govt. of India)
Chennai- 600 127, Tamilnadu.
www.iiitdm.ac.in**

ABOUT FDP

Energy storage systems are essential to the operation of electrical energy systems. They ensure continuity of energy supply and improve the reliability of the system by providing excellent energy management techniques. Energy storage systems can be in many forms and sizes. Energy can be stored as potential, kinetic, chemical, electromagnetic, thermal, etc. Some energy storage forms are better suited for small-scale systems as well as for large-scale storage systems. Some of the energy storage systems are chemical batteries, fuel cells, ultra-capacitors, super capacitors, superconducting magnetic energy storage (SMES), and fly wheels etc. The potential applications of energy storage systems includes utility, commercial & industrial, off-grid & micro-grid systems. Energy storage systems help with frequency regulation, can reduce a utility's dependence on fossil fuel generation plants, and shifting to a more sustainable model over time. Renewables with energy storage can act as the base load power source of a micro grid and reduce the use of fossil-fuel based generators. The proposed program covers energy storage systems and applications, including the various methods of energy storage and their incorporation into and integration with both conventional and renewable energy systems.

COURSE CONTENT

- Types and futures of energy storage systems
- Standards and technical comparison.
- Use of energy storage in PV generation systems (wind & PV).
- Design, control and application of battery energy storage in off-grid system.
- Energy storage technologies for hybrid energy systems.
- Renewable based off-Grid/Grid-Interactive systems and their control.
- Battery Storage and electrical vehicle Integration.
- Modelling and Design of energy storage.

ABOUT ATAL

The objective of the academy is to train Faculties, students and research scholars in recent technological developments. In addition, the training will be mandatory for new teachers from 2019 and it will be necessary for existing teachers and assistant teachers while applying for promotions. AICTE is statutory body established in November 1945. It comes under aegis of Department of Higher Education, Ministry of Human Resources Development. It is national-level council for technical education responsible for planning and coordination of technical education management of education system in the country. It is headquartered in New Delhi.

IIITD&M KANCHEEPURAM

The course will be organized by Indian Institute of Information Technology Design & Manufacturing (IIITD&M Kancheepuram), Chennai. It is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Human Resource Development, Government of India. To pursue design and manufacturing oriented engineering education and research and for promoting the competitive advantage of Indian products in global markets. The institute is located on a 51 acre campus on the outskirts of Chennai, off the Vandalur-Kelambakkam road. The Institute is presently offering UG, PG, and Ph.D programmes in Computer Engineering, Electronics and Communication Engineering and Mechanical Engineering.

ORGANIZING COMMITTEE

Patron

Prof. Banshidhar Majhi

Director, IIITD&M Kancheepuram.

Coordinator

Dr. B. Chitti Babu

Assistant Professor (*Grade-I*)

IIITD&M Kancheepuram.