

One Week

AICTE - ISTE sponsored Induction /Refresher Programme (online) on

“Grid Connected Electric Vehicle Charging Station with Renewable Energy Power”
(23rd to 30th December 2021)

About ISTE

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. As such sole national organisation of educators in the fields of engineering and technology, the Institution of Engineering and Technology Educators (ISTE) contributes significantly to the accomplishment of the many tasks of the Union Government. Because of its solid foundation in technical education institutions around the nation, ISTE is a formidable organization. At the national level, the International Society for Technology and Engineering has an Executive Committee. A total of more than 128500 technical teachers, 535000 student members, more than 2740 institutional members (including the IITs, the NITs, and other leading technical institutions), 1414 faculty chapters and 1505 student chapters at the national level, and 19 Sections at the state level are active members of IIT-USA. ISTE's primary goal is to provide high-quality training programmes to teachers and administrators of technical institutions, allowing them to keep their knowledge and skills up to date in their respective fields of expertise. It also seeks to assist in and contribute to the production and development of high-quality professional engineers and technicians, which are in high demand by industry and other organizations.

Registration form (Google form link):



<https://forms.gle/v6X3LeAPIJgZCm666>

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Dept. of EEE

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Dept. of EEE, AVCCE

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23.12.2021 to 30.12.2021



Organized by
Department of Electrical and Electronics Engineering



**A.V.C. COLLEGE
OF ENGINEERING**



Mannampandal, Mayiladuthurai
District, Tamilnadu- 609 305.

Approved by AICTE, Affiliated to Anna University,
Re-Accredited by NAAC with 'B++' Grade (2nd Cycle),
An ISO 9001:2015 Certified Institution
Ph: 04364-227202, Fax: 04364-227299
Website: www.avccengg.net
Email: ragavendirenee@avccengg.net

About the Institution

A.V.C. College of Engineering was started in the year 1996 committed to social welfare. The founding father Sri S. Ramalingam Pillai sowed the seeds of A.V. Charities in 1806 in memory of his beloved son Thiru Velayutham pillai. A.V. Charities began its educational services by starting the A.V.C. (Autonomous) college in 1955, extended their horizon to A.V.C Polytechnic in 1983 and in 1996 by opening the Engineering college. A.V. Charities serve as Beacon light in the field of education to the innumerable youth, with rural background. We are very glad to say that we are second to none in enhancing the young minds to compete the ever changing global changes. A.V.C College of Engineering is a pioneer institution and first self financing college in Nagapattinam District. We have been approved by All India Council for Technical Education (AICTE) and also in possession of ISO 9001:2015 certificate. We are moving ahead with National Board of Accreditation (NBA) for the Engineering courses. Our Mission is to make the institution a Centre of Academic Excellence. The R&D facilities have been opened up to make the students as reservoir of knowledge, aptitude to advance and to face the global challenges.

About the Department

The department of Electrical and Electronics Engineering (EEE) was established in the year 2011 with the aim of creating quality engineers with sound technical knowledge and awareness of the latest advancements in existing and emerging technologies. The department has the state of the art facilities for Laboratories and e-learning. The department is equipped with well experienced faculty members. All the faculty members are involved in research and published papers in the reputed technical Journals. Our department students were placed in top level companies like TCS, CTS, Infosys, GE Electricals, SL Lumax Ltd and so on. The Department has signed MoU's with EstaarMax and NIT-Siemens. Our students are active members in IEL.

About Programme

This programme discusses the EV related matters in which the optimal planning of electric vehicle (EV) charging stations (ECSs) with advanced control algorithms is very important to accelerate the development of EVs, which is a promising solution to reduce carbon emissions of conventional internal combustion engine vehicles (ICEVs). The large and fluctuant load currents of ECSs can bring negative impacts to both EV-related power converters and power distribution systems if the energy flow is not regulated properly. Recent review papers related to EVs found in open literature have mainly focused on the design of power converter-based chargers and power interfaces, analyses of power quality (PQ) issues, the development of wireless charging techniques, etc. There is currently no research that focuses on key technologies in various system configurations, optimal energy management and advanced control issues in practical applications. To compensate for this insufficiency and provide timely research directions

Objectives and Context

- ⊗ To study the practical concept of EV using Renewable Energy System.
- ⊗ To focus on the main technologies in various system configurations, optimal energy management and advanced control issues in practical applications for EV.
- ⊗ To give idea about the most popular ECS configuration (hybrid system design that integrates renewable energy based power generation (REBPG), various energy storage systems (ESSs), and utility grids).
- ⊗ To learn control algorithms to buffer the fast, fluctuant power demand during charging EV in addition to the ESS.

Course content

- ⊗ Recent EV technologies and Smart Charging.
- ⊗ Vehicle to Grid Support from Electric Vehicles
- ⊗ Protection Issues and Challenges in PV Connected Distribution System
- ⊗ Electric Vehicles with Smart Grid -Challenges and Opportunities

Eligibility

Faculty members from AICTE recognized Institutions and delegates from industries.

Important Dates:

📅 Last date of registration :
19.12.2021

📅 Programme Dates :
23.12.2021 to 30.12.2021

Registration

No registration fees (Maximum participants allowed :100, on first come first serve basis). Preference will be given to ISTE life members and those who are applying for ISTE membership soon. E-certificates will be given to the participants those who are satisfying the requirement of 80% or more attendance and 60% or more marks in quiz which will be conducted during/end of the FDP.

Resource Persons

Eminent Professors from organizations like IIT's, IISc., NIT's and from various Research Institutions and Industries.

Online Platform

Google Meet (Meeting link will be shared through registered email id)

