Loyola-ICAM College of Engineering and Technology (LICET)
Department of Electrical and Electronics Engineering
Electrical Engineers League (EEL)
Under
AICTE – Scheme for Promoting Interest, Creativity and Ethics among Students (SPICES)

Event Report

Category: **National Level Conference**

Title of the Event: **Conference on Smart Electrical Energy Systems-2023**

Details of Participants

- Total No. of External Participants: 62
- Audience: 166 [61 (II EEE) + 54 (III EEE) + 51 (IV EEE)]
- Total No. of Internal Participants: 75

Date: 29-03-2023 Venue: G01 (Auditorium) & F11 (Seminar Hall) Technological/ Academic/ Other benefits generated by conducting the event with respect to:

(a) the institution	● Networking & building brand recognition - promote the institution and help people connect with our brand ● Showcase the facilities at the institution by bringing the faculty from premium institutions
(b) the faculty	● Strengthen faculty community and build relationships with each other ● Meet like-minded individuals in person and encourage active engagement
(c) Students	● Provide an opportunity to work in inter-disciplinary groups. ● Train young men and women of quality to be leaders by organizing events and competitions
(d) Industry/ Society	● Clarifying the image of the avenues of development in the near future ● Contributing to make the literacy rate rise higher thereby helping build a more educated, empowered and aware society

Proceedings of the event

Category: National Level Conference

Report on Smart Electrical Energy Systems-2023

Date: 29-03-2023 Time: 09:00 am to 04:00 pm Venue: G01 (Auditorium) & F11 (Seminar Hall) No of

Participants: 137

Inaugural Address: Mr. I. Balakrishna, Deputy Director, The SAMEER, Center for Electromagnetics, Chennai

Keynote Address & Session Chair: Ms. K.Yavanarani, Retd Scientist 'E', CVRDE, DRDO, Chennai [Session – I] & Ms.Christina Mary Catherine E, Scientist 'F', Robotics Division, CVRDE, DRDO, Chennai [Session – II]

Smart Electrical Energy Systems-2023 (SEES – 2023) mainly focuses on the country's challenges on practical and theoretical aspects of a wide range of emerging technologies like Smart Grid, Microgrid, Renewable Energy Conversion Systems, Power Electronics, Energy Storage and Management, Optimization, Intelligent Control, e mobility, Battery Management Systems, Modern Power Converters, Electrical Drives, Computational intelligence, etc. This conference is a common platform for academicians, scientists, designers from industry, research scholars and students interested in smart electrical energy systems developments. Technical papers are solicited on the topics pertaining to the scope of the Conference were separated into FIVE Tracks and were presented by the participants. The identified tracks are listed below:

Track 01: Trends in e-Mobility
Track 02: Modern Power Converters and Electrical Drives
Track 03: Intelligent Computing Techniques and Optimization
Track 04: Control System, Automation and Robotics
Track 05: Renewable Energy and Hybrid Technologies

The event started with a grand inaugural ceremony presided over by Mr. I. Balakrishna and the proceedings of the conference was released. Following the inaugural ceremony, the technical sessions with the keynote address by the invited speakers were conducted.

Papers were received from different parts of India like Ludhiana - Punjab, Meerut – Uttar Pradesh, Rajampet – Andra Pradesh, Ongole – Andra Pradesh and several other parts of Tamil Nadu. Out of those, 41 papers were selected. The selected papers were presented by participants and were published in proceedings with ISBN: 978-81-961894-0-2.

Relevant Program Outcomes

- PO1 – Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 – Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 – Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4 – Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5 – Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PO6 – The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7 – Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development.
- PO8 – Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 – Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 – Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
- PO11 – Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12 – Life-long learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Conference on Smart Electrical Energy Systems-2023
Feedback of External Participants

Date : 29th March 2023 **Time :**09:00 am to 04:00 pm 70