



INTERNATIONAL CONFERENCE ON

Advances in Renewable Energy & Electric Vehicles (AREEV-2022)

(under the aegis of ICETE 2022 Multi-Conference Platform)

22 – 23 December 2022

Organized by

Department of Electrical & Electronics Engineering



(An Autonomous Institution affiliated to VTU, Belagavi)

Nitte – 574 110, Karkala Taluk, Udupi District, Karnataka, India
ISO 9001:2015 Certified, Accredited by UGC NAAC with 'A' Grade

Phone: +91 8258 281264; Fax: +91 8258 281265

Website: www.nmamit.nitte.edu.in

About the Institute

Nitte Mahalinga Adyanthaya Memorial Institute of Technology (NMAMIT), Nitte offers UG, PG and Doctoral programmes. It currently offers 10 UG programmes in engineering, 06 M.Tech programmes, MBA and MCA programmes. The Institute is ISO 9001:2015 certified. The Institute is ranked 138 in the NIRF ranking (Engineering Institutes)-2021, Govt. of India. Atal incubation centre supported by NITI AAYOG, Government of India is situated in the campus. The Institute is recognized by the All-India Council for Technical Education, New Delhi and accredited by National Assessment & Accreditation Council [NAAC] with 'A' grade with a CGPA of 3.11 out of 4 till 20th October 2022. Seven UG Programs i.e., BT, CIV, CS, E&E, E&C, IS and MECH are accredited by NBA, New Delhi under Tier - I category till 30th June 2021. The institution has been granted Academic Autonomy under the Visvesvaraya Technological University from 2007-08 and certified to the ISO 9001:2015 standards for quality education by NVT Quality Certifications (ANAB accredited). The Institute has been awarded "Diamond" rating by QS I-GAUGE Indian Institute Ratings in 2019-20. The college has signed MoU with reputed industries, research organizations, and international universities to promote close interaction in areas of recent technologies, Research & Development, and skill enhancement programs.

About the Organizing Department

The Department of Electrical and Electronics Engineering, established in 1987, offers the undergraduate programme BE in Electrical and Electronics Engineering with an intake of 120. The BE program has been autonomous under VTU since 2007 and is accredited by the National Board of Accreditation. The department is a recognized research centre under VTU Belagavi, with ultramodern facilities in Power Electronics, Power Systems and Electric Vehicles. The department provides the opportunity for the researchers to work on cutting-edge technologies like converter design using GaN, SiC devices and the upcoming mobility systems like EV. The state-of-the-art Laboratories in Power Electronics, Control Systems, Power Systems and High Voltage & Relay cater to the requirements of all Electrical and Electronics Engineering students. The department has an excellent rapport and MoU with industries and provides consultancy to a few start-up companies in Power Electronics and motor drives.

About the Conference

"Advances in Renewable Energy & Electric Vehicles" (AREEV-2022), a Two-day International Conference as a part of the Multi-Conference "International Conference on Emerging Trends in Engineering" (ICETE- 2022), will be held on 22 and 23 ~~December~~ 2022.

The Conference dedicates to driving innovation in every aspect of Electrical and Electronics Engineering by facilitating a platform for researchers, professionals, executives and practicing engineers from various research & educational institutes and industries to exchange their ideas on the Conference's theme. A series of keynote presentations, technical papers, and poster presentations are planned to discuss emerging trends and feasible solutions to shape and enable the development of mankind as a whole.

The theme of the Conference

Advances in Renewable Energy and Electric Vehicles pave a pathway and pose challenges in developing efficient and reliable power electronics solutions for the operation of power systems. The Conference's objective is to provide a platform for people working in Electrical & Electronics and interdisciplinary research to share their expertise and knowledge on technical innovations.

Thrust Area

Topics of interest include all aspects of Power Systems, Power Electronics & Drives, Renewable Energy, E-Mobility, Illumination Technology & Control, but not limited to:

Power Systems, Renewable Energy & E-Mobility

- Energy Storage Systems
- FACTS Controllers & HVDC Systems
- Power Quality
- Power System Protection and Security
- Power System Stability & Control
- Smart Grid
- Special Electrical Machines
- Renewable Energy Integration
- Distributed Generation
- Electric Vehicles
- V2G and G2V

Power Electronics & Drives

- Wide Bandgap Semiconductor Technologies
- Motor Drives & Motion Control

Invited Speakers

Eminent researchers, academicians and industrialists will be delivering keynote address on topics pertaining to the three major themes of the Conference. The list of keynote speakers and related details would be displayed in the website.

Participants

Faculty and students from engineering colleges, R & D labs and professionals from the industry.

Publication

The best paper shall be awarded in each stream

- Hard-Switching & Soft-Switching Static Power Converters & UPS
- Traction & Automotive Systems
- Robotics Systems and Application
- Modelling & Simulation of Power Converters

Control System & Illumination

- Sensors & Actuators
- EMS/ SCADA
- Optimal & Robust Control System
- Renewable Energy Application to Lighting
- Robotics & Automation
- Solid State / LED-based Illumination
- System Level Design and Optimization

Patron

Sri N. Vinaya Hegde

Chancellor, Nitte (Deemed to be University) & President, Nitte Education Trust, Mangaluru

Steering Committee

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Mr. Rajeevan K V, System Analyst

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Dr. N. Lakshminarasamma, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology, Madras

Dr. Mohan Krishna S, Associate Professor, Department of Electrical and Electronics Engineering, Alliance college of Engineering and Design, Alliance University

Mr. Sumukh Surya, Senior Software Engineer, Robert Bosch Engineering and Business Solution Private Limited(RBEI), Bangalore.

Mr. Chethan Midha, Team Lead-Essential Support, OPAL-RT Technologies, Inc., Canada

AREEV Conference Secretary

Dr. Nayana Shetty, Associate Professor, Dept. of EEE, NMAMIT

AREEV Conference Coordinators

Mr. Ravikiran Rao M, Assistant Professor, Dept. of EEE, NMAMIT

Mrs. Swathi Hatwar H., Assistant Professor, Dept. of EEE, NMAMIT

Track Chairs

Power Systems, Renewable Energy & E-Mobility

Dr. Krishna Rao, Assistant Professor, Dept. of EEE, NMAMIT

Power Electronics & Drives

Dr. Latha Shenoy, Assistant Professor, Dept. of EEE, NMAMIT

Control System & Illumination

Dr. Cifha Crecil Saldanha, Assistant Professor, Dept. of EEE, NMAMIT

AREEV Program Committee

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Dr. Satyendra Kumar, Professor, Dept. of EEE, NMAMIT

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Mr. Pradeep Kumar, Assistant Professor, Dept. of EEE, NMAMIT

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Mrs. Nutana Shetty, Assistant Professor, Dept. of EEE, NMAMIT

Transportation, Food & Accommodation Committee

Mr. Naveen J., Assistant Professor, Dept. of EEE, NMAMIT

Mr. Gururaj K., Assistant Professor, Dept. of EEE, NMAMIT

Pre-Conference Tutorial Committee

Dr. Anitha M Colaco, Associate Professor, Dept. of EEE, NMAMIT

Mr. Mahabaleshwara Sharma K., Assistant Professor, Dept. of EEE, NMAMIT

Important Dates

Submission of Full-length manuscript – Open	: 01 March 2022
Last date to Submit Full-length manuscript	: 01 August 2022
Notification of acceptance	: 20 October 2022
Starting date for registration	: 05 November 2022
Submission of camera-ready manuscript	: 20 November 2022
Last date for registration	: 20 November 2022
Conference Dates	: 22-23 December 2022

Paper Format and Ethics

The research paper submitted should be original work and should not have been submitted in another conference or journal. IEEE format should be followed for the paper. To submit the paper kindly login to conference website: www.areev2022.in

Registration Fees

Category	Conference
Indian Delegates	₹6000
Foreign Delegates	\$100

Mode of Payment

Registration fee can be paid through NEFT. Details:

Name : Principal, NMAMIT, Nitte
Account Number : 01152200033493
Type of account : Savings Bank
Bank : Canara Bank, Nitte
SWIFT Code : CNRBINBBFD
IFSC : CNRB0010115
MICR Code : 576015041

NOTE: Delegates must mention their NAME and AREEV-2022 without fail during online payment. The proof of online transfer (UTR No., date & time, Scan copy) needs to be uploaded in the registration portal.

Accommodation

Accommodation with nominal charges will be provided on twin sharing basis in the institute hostel on prior request depending on the availability and first come first serve basis.

Conference Registration

Kindly visit: www.areev2022.in

Conference Location

Nitte is a village in Karkala taluk of Udupi district, India which is on the state highway from Padubidri to Kudremukh. It is 8 km away from Karkala, 36 km from Udupi and 54 km from Mangaluru. It is located on the foothills of the Western Ghats Mountains and receives an annual rainfall of around 4830 mm. The state highway SH-1 cuts across Nitte which connects to the National Highway NH-66 at Padubidri and NH-13 near Karkala. There are ample number of tourism destinations near Nitte. To name a few:

- Sri Krishna Math, Udupi
- Beach, Malpe
- Thousand Pillar Temple, Moodbidri
- Chaturmukha Basadi, Karkala
- Attur Church, Karkala
- Durgaparameshwari Temple, Katil
- Light house, Kaup



Contact Details

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Karkala Taluk, Udupi District (Karnataka State), India.



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