

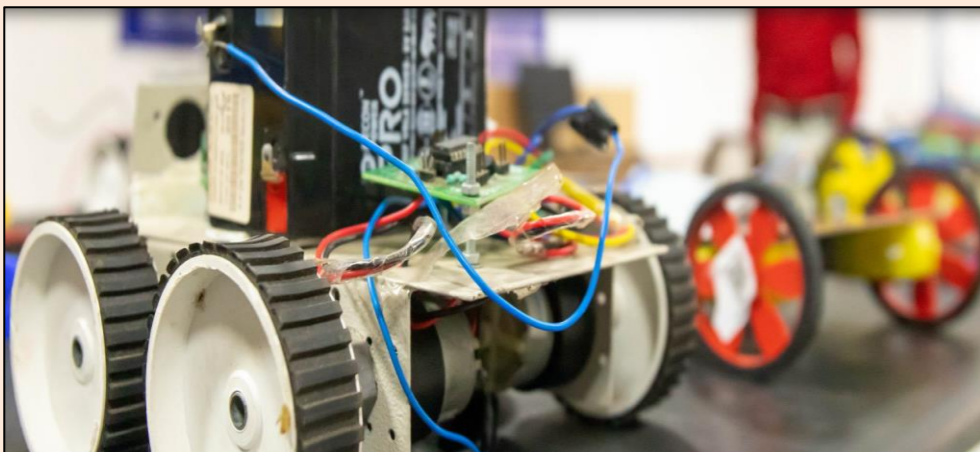


Online short-term course (e-STC)

“Recent Advances in Renewable Energy Technologies and their Applications” (RARETA-2024)

9–13 December, 2024
(Five days)

Organized by



Department of Mechanical Engineering
School of Mechanical, Aero, Auto and Civil Engineering
(SMACE)

Kalasalingam Academy of Research and Education
(KARE), Krishnankoil, Tamilnadu-626126

<https://www.kalasalingam.ac.in/school/school-of-automotive-and-mechanical-engineering-same/>

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Online short-term course (e-STC)

An Initiative of

Department of Mechanical Engineering,
KARE, Tamilnadu



About the Institute

Kalasalingam Academy of Research and Education (KARE) (Deemed to be University) formerly Arulmigu Kalasalingam College of Engineering was established in 1984 by Kalvivallal Thiru T. Kalasalingam under the trust Kalasalingam and Anandam Ammal Charities, Founder Chairman who was a freedom fighter and Philanthropist. KARE is Located at the pristine foothills of scenic Western Ghats of southern Tamilnadu and obtained the Deemed to be University status in 2006. KARE has been serving the society for thirty seven long years and offers UG, PG and PhD programs in various disciplines of Engineering, Science, Technology, Applied Health Science, Architecture, Agriculture, Law and Humanities. The Institution continues to do indefatigable work in getting projects and research centers.

It has received DST funding to establish the National Center for Advance Research in Discrete Mathematics. KARE has established the state of the art International Research Centre (IRC) in 2014, a research facility of international standards to carry out the advanced research in the broad areas of materials science, life sciences, energy and computing. KARE has been re-accredited by NAAC with 'A++' grade and recognized in the top ranked institutions with 36th in engineering and 50th in overall in the **NIRF-2024**. KARE has been ranked within 801-1000 (World), 301-350 (Asia) and 251-300 (Young) in **THE University Ranking 2024**.

About the Department

The Department of Mechanical Engineering at KARE was established in 1984 and it is one of the oldest and the most prominent departments, dedicated to building a strong fundamental foundation and a thorough engineering orientation. The Department is equipped with various research centres such as the Centre for Composite Materials, Centre for Advanced Thermal Studies, Centre for Bio-Composites, and Centre for Surface Engineering for students to carry out in-depth research activities and learn practically which helps the UG, PG and PhD students to get exposure and experience on the advanced machines. The Department has established Robert Bosch Center, Materials Processing Laboratory, Advanced Machining and Machine Dynamics & Condition Monitoring Laboratory under Level 1 of the DST-FIST program. The Department currently has 9 ongoing research projects (INR. 18.16 Lakhs) and completed 12 research projects (INR. 234.6 Lakhs).

Objectives and Scope

The main objective of online short-term course (e-STC) is to provide (to UG/PG students, research scholars, academic faculties, industry participants and R&D lab staffs) a comprehensive knowledge/overview of recent advanced technologies developing from the renewable energy sources for different applications and their benefits/role in climate change as well as emission reduction. Further, this e-STC will also encourage and help to the early career faculties, research scholars, R&D lab staffs and industry experts to develop more advanced technologies by providing them the ideas in their areas of expertise.

Topics to be Covered

- Advanced power generation technologies
- Thermal engineering
- Renewable energy hybrid systems
- Energy conversion and management
- Alternative fuel generation
- Solar energy conversion technologies
- Waste heat recovery
- Clean energy technologies
- Biomass for sustainable power generation
- Advanced desalination process
- Climate change and emission mitigation

Persons/Speakers

Faculties/Experts from IITs, NITs, CFIs, and other premier Institutions/Organizations will deliver the lectures/talks on their areas of expertise.

Targeted Participants

UG/PG students, research scholars, Faculties, R&D lab staffs, and employee of industries across the country

Number of Participants

Number of participants is limited to 100 for this e-STC with ***first-cum-first serve basis***.

Certificate

e-Certificates will be provided to the participants having attendance atleast 80% and after submitting feedback. Merit certificates will also be provided to the top three participants after online technical assessment.

Registration Fee Details

Participant/member type	Registration fees (Rs.)
UG/PG/Research scholars (student)	500
Faculty from Academia/R&D Labs	800
Participant from Industries	1200
Internal (KARE) student	300
Internal (KARE) Faculty	600

How to Apply

The account (or UPI) details for depositing the fees are provided in the registration form and the application in the prescribed format must submit (online) on or before **8 December, 2024**. Please visit the below link for registration, <https://forms.gle/U51PdMFgNoV3Afxr9>