



KALASALINGAM

ACADEMY OF RESEARCH AND EDUCATION

(DEEMED TO BE UNIVERSITY)

Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A++" Grade



Annual Training for Faculty and Students

Kalasalingam Academy of Research and Education prioritizes professional development through comprehensive training programs. With faculty attending 40 hours of training annually, the institution fosters a culture of innovation, ethics, and excellence. These initiatives enhance skills, promote best practices, and drive academic and research excellence. The training component includes various sustainable training programmes to students and faculty members in various aspects, including ISO training, Ethical code of Conduct, Innovation and Entrepreneurship development, Problem based learning, mentor supporting system etc.

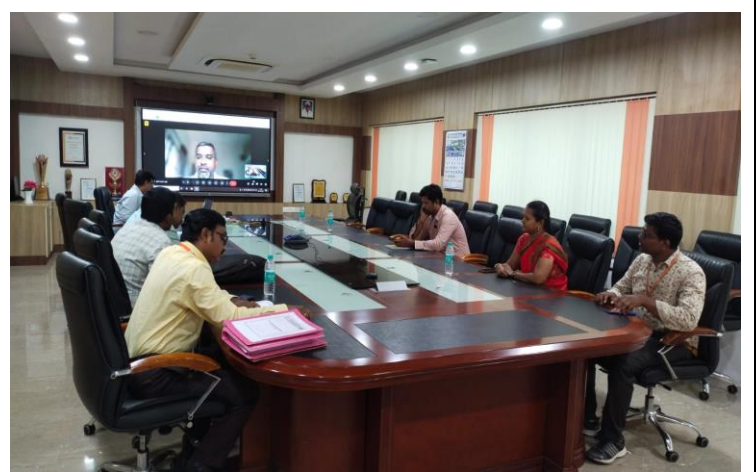
Faculty Training

ISO Training - 2024

Kalasalingam Academy of Research and education provided ISO training to the faculty members. The training course focuses on teaching individuals and organizations about the International Organization for Standardization (ISO) standards and how to implement them. ISO standards are a set of guidelines and requirements that ensure products, services, and processes meet certain quality, safety, and efficiency standards. From this training helps faculties help organizations improve the quality of their products and services. Faculties are trained to streamline their processes and reduce waste. ISO certification training helps organizations comply with regulatory requirements.



ISO Training - 2025



Faculty orientation program on Innovation and Entrepreneurship

The Faculty Orientation Program on Innovation and Entrepreneurship aims to equip educators with the knowledge and skills to foster an entrepreneurial mindset among students. It seeks to introduce innovative teaching methodologies, enabling faculty to better support student-led ventures and creative problem-solving. The program encourages collaboration between academia and industry to bridge the gap between theoretical knowledge and practical application. Ultimately, it aims to cultivate a culture of innovation and entrepreneurship within educational institutions.

Date : 26/06/2024 to 28/06/2024
Mentor/Guest : Dr. R. Sujatha/ principal Entrepreneur, Wadhwani foundation
Mode of Activity : Offline
Faculty Members : 41





Ethical Code Training: 2024

Kalasalingam Academy of Research and Education trained the teaching individuals and organizations about ethical principles, values, and standards. The main aim of ethical code training is to promote ethical behavior, decision-making, and practices within an organization.



Training programme on Renewable energy Technology and their application

Department of Mechanical Engineering, KARE is organized an online short term (e-STC) course titled "Recent Advances in Renewable Energy Technologies and their Applications - RARETA2024" via google meet for UG, PG, research scholars, faculties, and industry employee. This training will be used for the early career researchers to develop the advanced cutting-edge technologies in the renewable sector by getting an idea through e-STC.



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-smace>

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Associate Professor, MECH, SMACE, KARE

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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 **6 December, 2024**. Please visit the below link for registration,
<https://forms.gle/U51PdMFgNoY3Afc9>

P2BL Training



**Micro lectures and AI Tools for Enhanced Teaching and Learning: A Hands-On
Workshop
Monday, May 19th
10.00 AM, Tifac Core - 6116**

Objectives:

1. Discover techniques for effectively structuring micro lectures to capture students' attention quickly and deliver core concepts clearly.
2. Develop practical skills in creating digital content using AI-supported platforms to easily produce high-quality micro lectures.

Workshop Agenda

I. Introduction and Context Setting

- Brief introduction, teaching experience of the facilitator & participants.
- Overview of workshop objectives,

II. Exploring Micro lectures: Concepts and Benefits

- Explanation of micro lectures, advantages, and importance in teaching and learning.

III. Practical Skills for Creating Micro lectures

- Techniques for capturing student interest in the first minute of the lecture.
- Practical strategies for effectively presenting core ideas
- Integrating active learning and interactive exercises to reinforce and assess understanding.

IV. Group Testing

- Allow students to engage in meaningful discussions and learn from their peers.
- Instructors can identify areas where students struggle and adjust teaching methods.

LUNCH BREAK

V. AI Tools for Creating Effective Micro lectures

- Introduction and brief demonstration of user-friendly AI-supported platforms.
- Hands-on Activity and Collaboration - Participants collaborate in small groups, providing constructive suggestions on enhancing engagement, clarity, and effectiveness.

VI. Group Discussion and Troubleshooting

- Address common challenges encountered during micro lecture creation (e.g., segmenting content, maintaining engagement, technical hurdles).
- Share strategies to overcome these obstacles.

VII. Closing Remarks

- Recap of key learning points and discussion of practical applications.
- Q&A session to address participant questions. (Prepare to ask questions about America, American students, American Life, Job nature and opportunities)

Resource Person

Dr. Srinivasan Durairaj is an accomplished college professor with extensive experience in biological sciences, demonstrating expertise in teaching and research at institutions across the United States, India, and Fiji. Dr. Durairaj is dedicated to innovative teaching practices, having certifications in teaching with artificial intelligence and effective instruction. He actively contributes to curriculum and textbook reviews and has delivered numerous invited talks and workshops internationally, focusing on engaging diverse learners through UDL and active learning methods. His experience of college teaching spans three decades and was recognized with NISOD's Excellence Award in Teaching. At Present, he is a Professor at Richland Community College, Decatur, IL, USA.



STUDENT TRAINING PROGRAMME







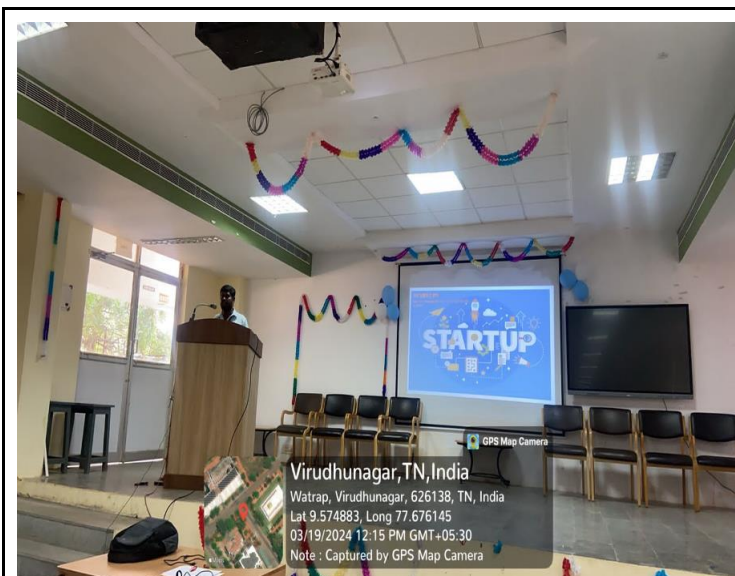
HOW TO PLAN FOR START-UP AND LEGAL AND ETHICAL

Objective: The objective of the session on "How to Plan for Start-up: Legal and Ethical Aspects" is to provide aspiring entrepreneurs with a clear roadmap for launching a startup while understanding the critical legal and ethical considerations involved. The session aims to guide participants through essential steps such as business registration, selecting the appropriate legal structure, and securing necessary licenses and permits. It will also cover intellectual property protection, contracts, and employment laws to ensure legal compliance. On the ethical front, the session seeks to highlight the importance of ethical decision-making, corporate social responsibility, and building trust with stakeholders. Participants will gain practical knowledge on how to navigate common legal challenges and avoid pitfalls that could jeopardize their business. Ultimately, the session aims to prepare entrepreneurs to establish a startup that is not only legally sound but also ethically responsible and sustainable.

Date: 19.03.2024

Mentor: Dr. Ramachandran, EDII – Tamilnadu.

Number of Participants: 116



HUMAN CHAIN ACTIVITY

Kalasalingam School of Law organized '**Human Chain Activity**' in commemoration of National Human Rights Day on 12th December 2023. The primary goal of the human chain activity was to foster a sense of unity among students, faculty, and staff while emphasizing the significance of upholding and protecting human rights. Our School of Law's human chain activity during National Human Rights Week was a resounding success, fostering unity and promoting awareness about the importance of upholding human rights. This initiative not only contributed to the commemoration of the national event but also left a lasting impact on the participants, encouraging a continued commitment to human rights principles within our university.



ENVIRONMENTAL SUSTAINABILITY AWARENESS AND COMPETITION





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Centre for Composite Materials, Department of Mechanical Engineering
Organizes

International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 (INSAM 2025)

27-28 March 2025



Co-organized by: Universiti Teknologi Malaysia, Malaysia & University of Cagliari, Italy

About the Conference

The International Conference on Sustainable Development in Advanced Materials, Manufacturing, and Industry 4.0 is a premier platform for researchers, academicians, scientists and industry professionals to discuss recent advancements in sustainable materials and cutting-edge manufacturing techniques. The conference will also explore the integration of Industry 4.0 technologies such as automation, IoT and AI in manufacturing processes to create eco-friendly and efficient systems. Topics include innovative material development, smart manufacturing, green technologies and their impact on global sustainability goals. It serves as a hub for collaboration, knowledge exchange and shaping the future of sustainable industries worldwide.

First Call for papers

Conference Themes (not limited to)

- Sustainable Advanced Materials
- Green Manufacturing and Advanced Manufacturing Technologies
- Nanomaterials and Composites
- Green Tribology
- Industry 4.0 Integration
- Smart Factories and Digital
- Circular Economy in Industry
- Additive Manufacturing
- Renewable Energy Integration in Manufacturing

Registration fee covers the, refreshments, lunch and conference kit. Payments to be made in the account given below:

Account Number: 335602011000115

Name of the Account: AKCE MECH Association

Name of the Bank: Union Bank of India

Name of the Branch: Krishnankoil Branch

IFSC Code: UBIN0562734

Swift Code: UBININBBKCH

Distinguished Speakers



Dr. Seeram Ramakrishna
National University of Singapore
Singapore



Dr. Anish Khan
King Abdulaziz University
Saudi Arabia



Dr. Nadir Ayrilmis
Istanbul University
Turkey

List of plenary speakers may be found in the conference website

Important Dates

Last date for submitting abstract : 31/01/2025

Notification of acceptance : 07/02/2025

Last date to submit of full-length paper : 14/03/2025

Last date for registration : 21/03/2025

Registration fee*

CATEGORY	Early bird (till 01.03.2025)		After early bird (after 01.03.2025)	
	FEE (INR)	FEE (USD)	FEE (INR)	FEE (USD)
Industry	3000	250	3500	300
Govt./Academic/ Research Institution	2500	225	3000	250
Students/ Research scholars	2000	175	2500	200
Listeners	1000	150	2000	175

Publication Options



Scopus Indexed



Scopus & ESCI Indexed



*Publication charges are not included in the registration fee.



Scopus Indexed



<https://forms.gle/qBmKg9UHqcCZnA89A>

Website: www.insdam.kalasalingam.ac.in

Email ID: insdam25@klu.ac.in



