



University : Karunya Institute of Technology and Sciences
 Country : India
 Web Address : www.karunya.edu/

[2] Energy and Climate Change (EC)

[2.14] Impactful university program(s) on climate change (EC.10)

No	Programs	Scope (international / regional / national / local / etc)	Total Partic ipants	Photo	URL	Short Description
1	Technical Event: The Role of Fluid Mechanics in Nuclear Power Plant Systems	National	85		https://drive.google.com/file/d/1ox0t0DXh21anAKJcF3GfbINDdMyrIkWwF/view?usp=drive_link	The attached file is a Technical Event Report from the Division of Mechanical Engineering, Karunya Institute of Technology and Sciences, detailing a seminar held on 21st August 2024 titled “The Role of Fluid Mechanics in Nuclear Power Plant Systems.” The event featured Mr. Aakash Kumar Rasal, Scientific Officer-C from NPCIL, as the guest speaker, and included the schedule, participant list, and photographic documentation of the session



2	Guest Lecture: Electric Vehicle Technology	National	52		https://drive.google.com/file/d/1_KC9FwY3Y0uZEKTQCpDeB9-4CRy5O3Iu/view?usp=drive_link	The file “2024 07 24 Guest Lecture Report” presents a summary of a guest lecture organized by the Division of Mechanical Engineering at Karunya Institute of Technology and Sciences on “Precision Design and Engineering: Integrating AutoCAD, Geometric Tolerance, and SolidWorks.” It includes event details, schedule, technical content, participant list, and photographs from the session conducted by Mr. Santosh from Myskills Academy on 24 July 2024.
3	Seminar: Futuristic Green Energy Technologies	National	91		https://drive.google.com/file/d/1rK1U32DPhXTKg6y3GLQvRmr5Q4A-Noj/view?usp=drive_link	A seminar titled “Futuristic Green Energy Technologies” organized by the Division of Mechanical Engineering, Karunya Institute Innovation Council, on 17 December 2024. The session, led by Mr. James Solomon, focused on hydrogen production, carbon sequestration, and sustainable energy practices in celebration of National Energy Conservation Day.



4	Training: Electric Vehicle – Design and Development (Go-Kart Vehicle)	National	13		https://drive.google.com/file/d/18ITVnEDGQ42hzRfk_m_lh5ltFRgHYKyXW/view?usp=drive_link	A hands-on training program titled “Electric Vehicle – Design and Development” organized by the Division of Mechanical Engineering, Karunya Institute of Technology and Sciences, from 9th to 23rd April 2025. Conducted by Mr. Baggio from AMZ Automotive, the training focused on go-kart–scale EV design, battery systems, motors, and drivetrain integration, attended by nine Mechanical and Robotics Engineering students.
5	Industry expert talk on Energy Science and Technology- Battery Revolution	National	155		https://docs.google.com/document/d/1jrdK3YanTRj2_4dJ1WDi4wLT-oWh7Z3-/edit?usp=sharing&ouid=115999086769279046233&rtpof=true&sd=true	It provides details of an online webinar held on 16 May 2025, featuring Dr. M.V. Reddy, Senior Professional Researcher at Nouveau Monde Graphite, Canada. The session titled “Energy Science and Technology: Battery Revolution” attracted over 150 participants and offered key insights into advancements and future trends in battery and energy technologies



6	International Journal	International	Prediction of Potential Evapotranspiration Using Climatic Parameters Using Machine Learning Techniques and Univariate Forecasting Journal of Global and Environmental Change, Volume 105, 2021, 102400, https://doi.org/10.1016/j.gloenvcha.2021.102400 Journal of Global and Environmental Change, Volume 105, 2021, 102400, https://doi.org/10.1016/j.gloenvcha.2021.102400	https://www.scopus.com/pages/publications/105013471392?origin=resultslist	Prediction of Potential Evapotranspiration Using Climatic Parameters Using Machine Learning Techniques and Univariate Forecasting
7	International Journal	International	Monsoon Shifts and Their Impact on Air Quality and Weather: A Case Study of the Amaravathi River Basin, India Journal of Global and Environmental Change, Volume 105, 2021, 102400, https://doi.org/10.1016/j.gloenvcha.2021.102400 Journal of Global and Environmental Change, Volume 105, 2021, 102400, https://doi.org/10.1016/j.gloenvcha.2021.102400	https://www.scopus.com/pages/publications/85205652958?origin=resultslist	Monsoon Shifts and Their Impact on Air Quality and Weather: A Case Study of the Amaravathi River Basin, India