

Join Greenovation

An exciting one-day intercollege event that brings together the brightest minds to address sustainability challenges through

Hackathon: Develop Working Mobile Application

"Smart Sustainability: Mobile Solutions for Greener Campuses" (or) "Clean Air: Mobile Solution for Air Quality Management & Monitoring"

This hackathon challenges college students to design and develop fully functional mobile applications that drive sustainability initiatives on campuses. The apps should address key areas like energy conservation, resource efficiency, and personal sustainability tracking while offering user-friendly interfaces and practical utility.

Key Focus Areas:

Energy Management:

- Develop an app that integrates IoT sensors to monitor and optimize energy consumption in campus buildings.
- Provide real-time energy usage analytics and insights.

Sustainability Goal Tracker:

- Create a personal sustainability tracker for students and staff, allowing users to set and monitor goals such as reducing carbon footprints, waste management, and water conservation.

Smart Irrigation:

- Build an app connected to an IoT-enabled irrigation system for campus gardens, ensuring efficient water usage based on weather data and soil conditions.

Green Audit Tool:

- Develop a mobile tool to conduct and record green audits, enabling campuses to assess their sustainability metrics (e.g., energy usage, waste production).

Sustainability Engagement Platform:

- Design a digital engagement platform that allows users to participate in campus-wide green initiatives, log activities, and earn rewards for sustainable actions.



Develop working mobile app focused on real-world sustainability solutions.



Compete for a chance to win exciting cash prizes and build solutions that make a difference.



Network with like-minded peers, industry professionals, and sustainability advocates.



Engage in problem-solving that aligns with Sustainable Development Goals (SDGs).

Hackathon Expectations

Participants will deliver

- A fully functional mobile app prototype (preferably Android).
- A clear demo of the app's features and functionality.
- Documentation outlining the app's environmental details.

Evaluation Criteria

- **Functionality:** How well the app works and meets the proposed use case.
- **Innovation:** Creativity and uniqueness in addressing sustainability challenges.
- **Usability:** User experience, interface design & accessibility.
- **Scalability:** Potential for broader implementation beyond the campus.
- **Environmental Impact:** How the app contributes to sustainability goals.

Participant Guidelines

- Eligibility: Teams of 2-4 college students.
- Registration process and deadline.
- Event timeline: 9:00 AM to 7:30 PM.

Event Highlights

- Hackathon with a working mobile app prototype.
- Quiz competition on sustainability themes.
- Total prize pool: **₹15,000 for Hackathon winners.**
- Participation certificates for all.

Outcome

The hackathon aims to generate practical, deployable mobile applications that empower campuses to achieve sustainability goals while fostering innovation and collaboration among students.



Thiagarajar 68
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Greenovation

One Day Intercollege Hackathon on Sustainability



Innovating for a Greener Campus



March 14, 2025
TCE, Auditorium

Hackathon on Sustainability

Want to register or find more information?



Scan OR Code for more.. or Register online at www.tceei.ac.in
Or mail us at deaneca@tce.edu for more info.

No Registration Fees

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Organized by



Ministry of Environment, Forest & Climate Change

TCE EIACP PC-RP

ENVIRONMENTAL INFORMATION, AWARENESS, CAPACITY BUILDING AND LIVELIHOOD PROGRAMME (EIACP) - PROGRAMME CENTRE - RESOURCE PARTNER FOR PLASTIC WASTE MANAGEMENT

Mail Us: deaneca@tce.edu / Visit Us: www.tce.edu / www.tceei.ac.in

About TCE

Thiagarajar College of Engineering (TCE), established in 1957 by philanthropist Karumuttu Thiagarajan Chettiar, is a Government Aided Autonomous Institution affiliated with Anna University, Chennai, and approved by AICTE. TCE offers 11 Undergraduate, 7 Postgraduate, and Ph.D. programs in Engineering, Architecture, and Science. Nestled in a serene, eco-friendly campus, TCE is renowned for its top-tier infrastructure and commitment to academic excellence.

TCE has embraced reforms in its teaching-learning process, including a Competency-Based Curriculum, Outcome-Based Education, and the CDIO framework since 2018, emphasizing hands-on training. The launch of MOOCs in 2021 and the Thiagarajar Research Fellowship (TRF) for Ph.D. scholars underscore TCE's focus on research innovation. Industry collaborations with global leaders, such as TVS Motors, have enhanced curriculum design and established cutting-edge labs like the TS Srinivasan Centre for Automotive Research.

TCE's participation in the Technical Education Quality Improvement Programme (TEQIP) under MHRD has driven faculty development, industry-supported research, and governance improvements, solidifying its reputation as a leader in technical education.

Relevant SDGs for this theme

SDG 7

Affordable and Clean Energy

SDG 12

Responsible Consumption and Production

SDG 9

Industry, Innovation, and Infrastructure

SDG 13

Climate Action

SDG 11

Sustainable Cities and Communities

SDG 17

Partnerships for the Goals

About TCE EIACP PC-RP

The TCE EIACP PC-RP is a pioneering program center operating under the Environmental Information Awareness Capacity Building and Livelihood Programme (EIACP), which is facilitated by the Ministry of Environment, Forest, and Climate Change (MoEF&CC), Government of India. Established in 2018, this center has been officially recognized as an authorized Resource Partner, with a core focus on plastic waste management. Situated at Thiagarajar College of Engineering (TCE), the TCE EIACP PC-RP has been instrumental in driving sustainability initiatives, offering resources, information, and training in plastic waste management, thereby addressing pressing environmental challenges in India.

Vision

To be a leading center of excellence in plastic waste management through continuous innovation, collaboration, and knowledge dissemination.

Mission

- To raise awareness about plastic waste management and promote environmentally sustainable practices among stakeholders and the general public.
- To build capacity through training programs, workshops, and educational initiatives that empower individuals to manage plastic waste effectively.
- To support research and development efforts in plastic waste utilization and encourage the application of innovative solutions within communities.
- To collaborate with industry, academia, and government bodies to drive policy-making, foster partnerships, and facilitate the implementation of plastic waste management practices.
- To inspire and enable youth through the Green Skill Development Programme (GSDP) to become skilled professionals in waste optimization and environmental stewardship.
- To support the Sustainable Development Goals (SDGs), particularly those focusing on responsible consumption and production, clean energy, and environmental conservation.

Organizing Committee

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Chairman and Correspondent
Thiagarajar College of Engineering

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