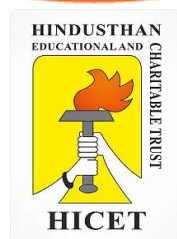




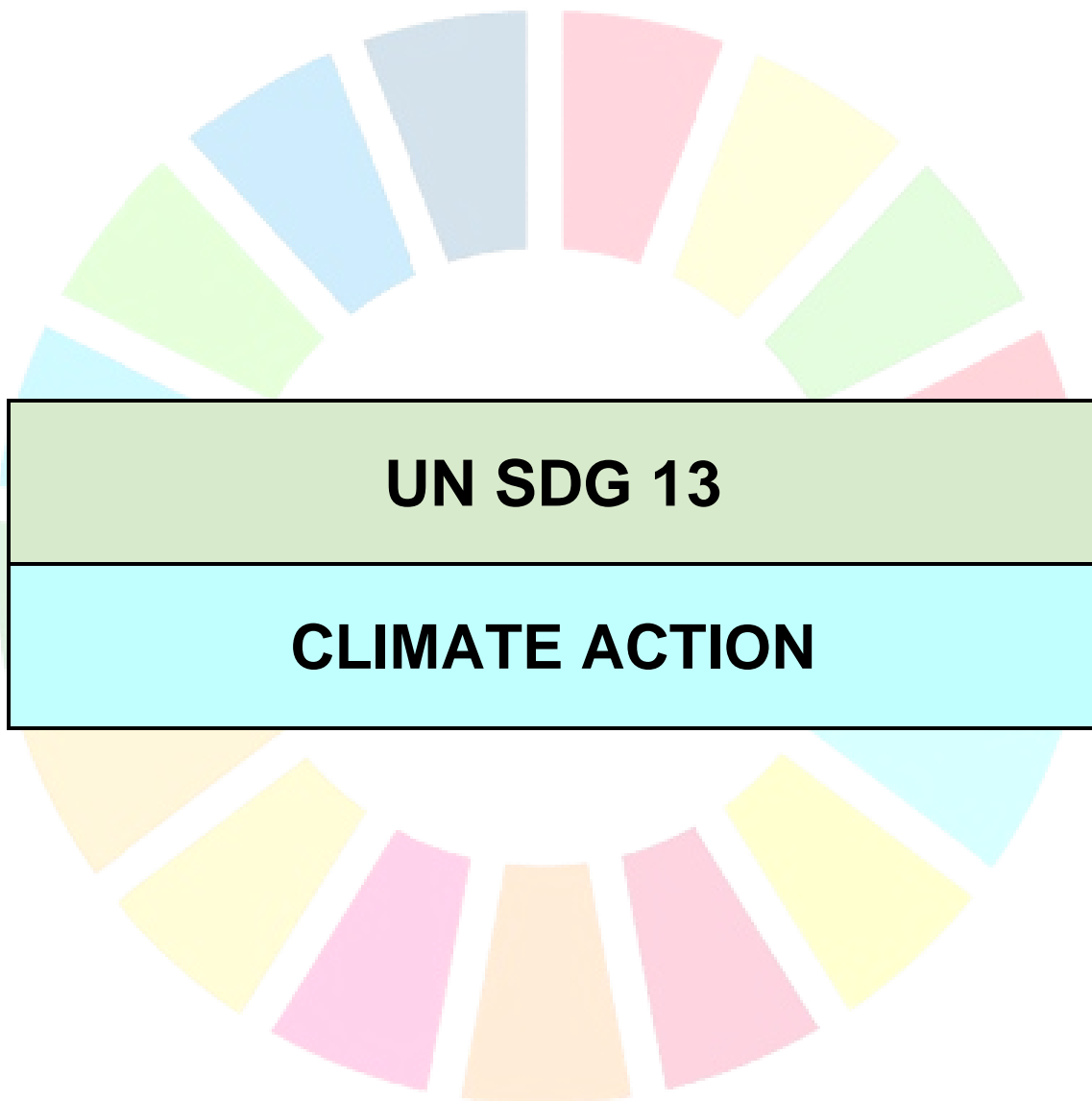
Times Higher Education
Impact Rankings 2025



HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution

Valley Campus, Pollachi Highway, Coimbatore 641 032, Tamil Nadu, India | www.hicet.ac.in



UN SDG 13

CLIMATE ACTION

13.2 LOW CARBON ENERGY USE

13.2.1 Does your university as a body measure the amount of low carbon energy used across the university?

Yes, the institution measures and monitors the amount of low-carbon energy used across its campus through a combination of smart meters, energy management systems, and regular audits. Energy consumption data is collected to track the share of energy derived from renewable sources, such as solar power, in comparison to energy from fossil fuels. This data is analyzed to identify trends and opportunities for further reducing carbon emissions. The institution has set specific targets to increase the proportion of low-carbon energy in its overall energy usage, aligning with sustainability and carbon reduction goals. At present, 15% of the total electricity demand is met through solar PV systems installed in the campus. Solar thermal systems are installed to supply hot water in hostels. The excess energy derived from the same is exported back to the grid. Annual reports are prepared to ensure transparency and inform stakeholders about progress toward achieving energy efficiency and reducing environmental impact. This ongoing effort supports the broader commitment to sustainability and climate action.



Solar PV Plant



Smart Meter Reading

Analysis of Annual Energy Consumption of all types of Fuels

S.No.	Month	Units Consumed (kWh) ¹	Energy from Solar PV System (kWh)	LPG Consumed (kg) ²	Wood Consumed (in Tons) ³	Diesel Consumed (in litres) (DG+Transport)
1	June	47912	6767	399	3	1689
2	July	27841	7555	475	4	5315
3	August	51855	9347	988	10	5834
4	September	27567	8719	1425	11	5842
5	October	61879	5702	1463	16	5824
6	November	35310	4813	1444	17	5868
7	December	61725	6166	1482	17	5581
8	January	38213	6468	1425	16	5925
9	February	65008	7296	1444	16	5794
10	March	41904	8385	1505	17	5725
11	April	59039	9867	1505	17	1833
12	June	36324	9580	1330	18	1743
Avg.		46215	7555	1240	13.50	4748
Total		554577	90665	14877	162	56973

¹ Cumulative Energy Consumption of 3 LT Services² Cumulative Consumption of 3 Hostels

³ Cumulative Consumption of 2 Hostels

- The average cost of the Electricity is Rs. 11.50/kWh
- The average cost of LPG is Rs.110.4/kg
- The average cost of the Wood is Rs. 3,560/Ton

13.2.2.1 Total energy used

Total energy used is 7310 GJ.

13.2.2.2 Total energy used from low-carbon sources

Total energy used from low-carbon sources is 326 GJ.

Analysis of Total, Electrical and Solar Energy Consumption

S.No.	Month & Year	Total Energy Consumed (kWh)	TNEB Energy (kWh)	Solar Energy (kWh)	Energy Exported (kWh)	Percentage of Solar Energy Utilized
1	June 2022	47912	41145	6767	-	14
2	July 2022	27841	20286	7555	367	27
3	August 2022	51855	42508	9347	436	18
4	September 2022	27567	18848	8719	492	32
5	October 2022	61879	56177	5702	559	9
6	November 2022	35310	30497	4813	573	14
7	December 2022	61725	55559	6166	579	10
8	January 2023	38213	31745	6468	618	17
9	February 2023	65008	57712	7296	630	11
10	March 2023	41904	33519	8385	647	20
11	April 2023	59039	49172	9867	683	17
12	May 2023	36324	26744	9580	716	26
Grand Total		554577	463912	90665	6300	Average: 16

CO₂ Balance Sheet

S.No.	Annual Energy Consumption & CO ₂ Emission			Annual CO ₂ Neutralization		
	Description	Annual Usage	CO ₂ Emission (Tons)	Description	Annual Usage	CO ₂ Neutralized (Tons)
1	Electrical	554577 kWh	454.8	Solar PV	90665 kWh	74.3
2	Wood	162 Tons	307.8	Matured Trees	1435 Nos.	31.3
3	Diesel	56973 Litres	150.4	Solar Thermal System*	18992 kWh	15.6
4	LPG	14877 kg	44.6	-	-	-
Total Emission			957.6	Total-Neutralized		121.2
Balance CO₂ to be Neutralized = 836.4 Tons/Annum						

* Equalled to Electrical Equivalent

Calculation Table:

- For Electricity = [kWh * (0.08 kg of CO₂ Emission / kWh)]
- For Diesel = [Diesel Consumption (Litre) * (2.64 kg of CO₂ Emission / Litre of Fuel Consumption)]
- For LPG = [LPG Consumption (kg) * (3.0 kg of CO₂ Emission / kg of LPG Consumption)]
- For Wood = [Wood Consumption (Ton) * (1.9 Tons of CO₂ Emission / Ton of Wood Consumption)]
- A mature tree is able to absorb CO₂ at a rate of 48 lbs / year (Nearly 21.8 kg) hence total CO₂ to be neutralized is $(2.8 * 1435) / 1000 = 3.13$ Tons / Annum



RAM KALAM CENTRE FOR ENERGY CONSULTANCY & TRAINING
No.8, VPK Garden, Mylampatti, Coimbatore – 641 062
GSTIN: 33AAZFR8890A1Z9



ENERGY AUDIT CERTIFICATE

RAM KALAM/HICET/FEC/EA/June/2023/01

(Audited and Accounted from June 2022 to May 2023)

This is to certify that, we have conducted a detailed **ENERGY AUDIT** in **HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Valley Campus, Pollachi Highway, Coimbatore - 641 032, Tamil Nadu, INDIA** on **02 June 2023**. The college is practicing various energy conservation measures, implemented energy efficient systems, following Best operating Practices (BoP) and utilizing all kind of energy in a Judicious manner.

Audit conducted and verified by

S.R. Sivarasu

Dr. S.R. SIVARASU

BEE Certified Energy Auditor (EA-27299)
Lead Auditor – ISO 14001: EMS; IGBC AP, GRIHA CP
CII Certified Professional in SWM
ISO-14064: Implementor & Auditor - Carbon Footprint Management



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No.8, VPK Garden, Mylampatti, Coimbatore – 641 062
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ENVIRONMENT AUDIT CERTIFICATE

RAM KALAM/HICET/ENA/June/2023/02

(Audited and Accounted from June 2022 to May 2023)

This is to certify that, we have conducted a detailed **ENVIRONMENT AUDIT** in **HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Valley Campus, Pollachi Highway, Coimbatore - 641 032, Tamil Nadu, INDIA** on **02 June 2023**. The college has upholding excellent Balance of CO2 emission & reduction, providing quality water, preserving great environment system and also educating the same to all the students.

Audit conducted and verified by

S.R. Sivarasu

Dr. S.R. SIVARASU

BEE Certified Energy Auditor (EA-27299)
Lead Auditor – ISO 14001: EMS; IGBC AP, GRIHA CP
CII Certified Professional in SWM
ISO-14064: Implementor & Auditor - Carbon Footprint Management



Energy Audit, Environment Audit and Green Audit Certificates

13.3 ENVIRONMENTAL EDUCATION MEASURES

13.3.1 - Does your university as a body provide local education programmes or campaigns on climate change risks, impacts, mitigation, adaptation, impact reduction and early warning?

Yes. The institution actively engages in educating the community on climate change through a range of programs, workshops, and campaigns. These initiatives are designed to increase awareness of climate change risks, impacts, mitigation strategies, adaptation measures, impact reduction techniques, and early warning systems. The curriculum integrates environmental studies and climate science across disciplines, ensuring that students from various fields understand environmental challenges. Specialized seminars and guest lectures by environmental scientists and sustainability experts highlight real-world climate issues, presenting case studies and discussing the implications of climate change on local and global scales. The institution also organizes tree-planting drives, waste reduction campaigns, and energy-saving workshops to promote sustainable practices. Research initiatives focus on local environmental impacts, developing mitigation techniques, and creating early warning tools for natural disasters. Outreach activities extend to local schools and communities, empowering them with knowledge on climate resilience. Collaborations with environmental organizations further enhance the institution's impact, fostering a culture of sustainability and proactive climate action within and beyond the campus.

SAMPLE EVIDENCE

Event Summary: Mission AmritSarovar – Jal DharoharSanrakshan Initiative

In celebration of India's 75th Independence anniversary, the Ministry of Housing and Urban Affairs (MoHUA), in collaboration with the Ministry of Education (MoE) and the All India Council for Technical Education (AICTE), launched the Mission AmritSarovar – Jal DharoharSanrakshan initiative. The aim of this mission is to understand and address the unique challenges associated with the protection, preservation, and rejuvenation of 300+ traditional water bodies of cultural and historical significance, identified across the country, to promote water security and support community development.

(i) Internship: Protection, Preservation and Rejuvenation of the Stepped Well at Palakkad Fort

Under this initiative, the Stepped Well at Palakkad Fort, Kerala was designated to Hindusthan College of Engineering and Technology, Coimbatore. 15 students from the

Department of Civil Engineering have undergone an internship from 16.07.2022 to 05.08.2022 and carried out an in-depth study on the water site. The scope of the study included:

- Documenting the Historical and Cultural Significance of Palakkad Fort
- Geo-Tagging Key Locations
- Photographic and Videographic Documentation
- Spatio-Temporal Analysis and Digital Elevation Modeling
- Hydrological Studies and Catchment Area Conservation
- Contour Mapping and Drainage Pattern Analysis
- Water Quality Testing and Analysis
- Reimagining the Area as a Vibrant Public Space
- Recommendations and Action Plan for Rejuvenation
- Spreading Awareness among the Community

Mr. A. Alex Livingston Raja, Assistant Professor of Civil Engineering was nominated as the Institute Nodal Officer (INO). Funds worth of Rs. 2,00,000 /- (Rupees Two Lakh Only) was sanctioned by the AICTE for providing stipends for the interns, INO and for other related expenses. Ms. M. Muhsina, Senior Conservation Assistant, Archaeological Survey of India (ASI), Palakkad Fort and Ms. K. V. Abha, Assistant Engineer, Palakkad Municipality were assigned as mentors for this study.

As part of this mission, the study's deliverables and outcomes were submitted and displayed through posters, photographs, maps, and reports on the Government of India Portal. The deliverables were also showcased for spreading awareness among the local community and general public at the 75th Independence Anniversary exhibition organized by the ASI at Palakkad Fort, held from 12.08.2022 to 20.08.2022.



The Stepped Well at Palakkad Fort



Group Photo of the Team at Palakkad Fort



Inauguration of the Poster Exhibition at Palakkad Fort

(ii) Outreach Activity: Cleaning of Palakkad Fort

An outreach activity titled Cleaning of Palakkad Fort for the 75th Independence Day Anniversary Celebrations was organized at Palakkad Fort, in association with the Archaeological Survey of India, Palakkad, and Green Thumbs, HICET, Coimbatore on 11.08.2022. About 81 students and 12 faculty members, participated in the event, focusing on community service and heritage conservation. Ms. N. Muhsina, Senior Conservation Assistant at the Archaeological Survey of India (ASI), Palakkad Fort, led the initiative.

The program allowed students to engage in the preservation of a historical landmark, promoting teamwork, community involvement, and the importance of cultural heritage. The event successfully fostered a sense of social responsibility and contributed to the local community's self-reliance. The activity received positive feedback, with participants expressing a sense of accomplishment and increased awareness of conservation efforts. The outreach program significantly enhanced the students' understanding of community engagement and societal development.



HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Valley Campus, Coimbatore - 641032

DEPARTMENT OF CIVIL ENGINEERING

Organizes An

Outreach Activity & 75th Independence Day Celebrations





75
Azadi Ka
Amrit Mahotsav





11 & 12 August 2022

Co-ordinators
Mr. A. Alex Livingston
Mr. M. Dinesh Kumar

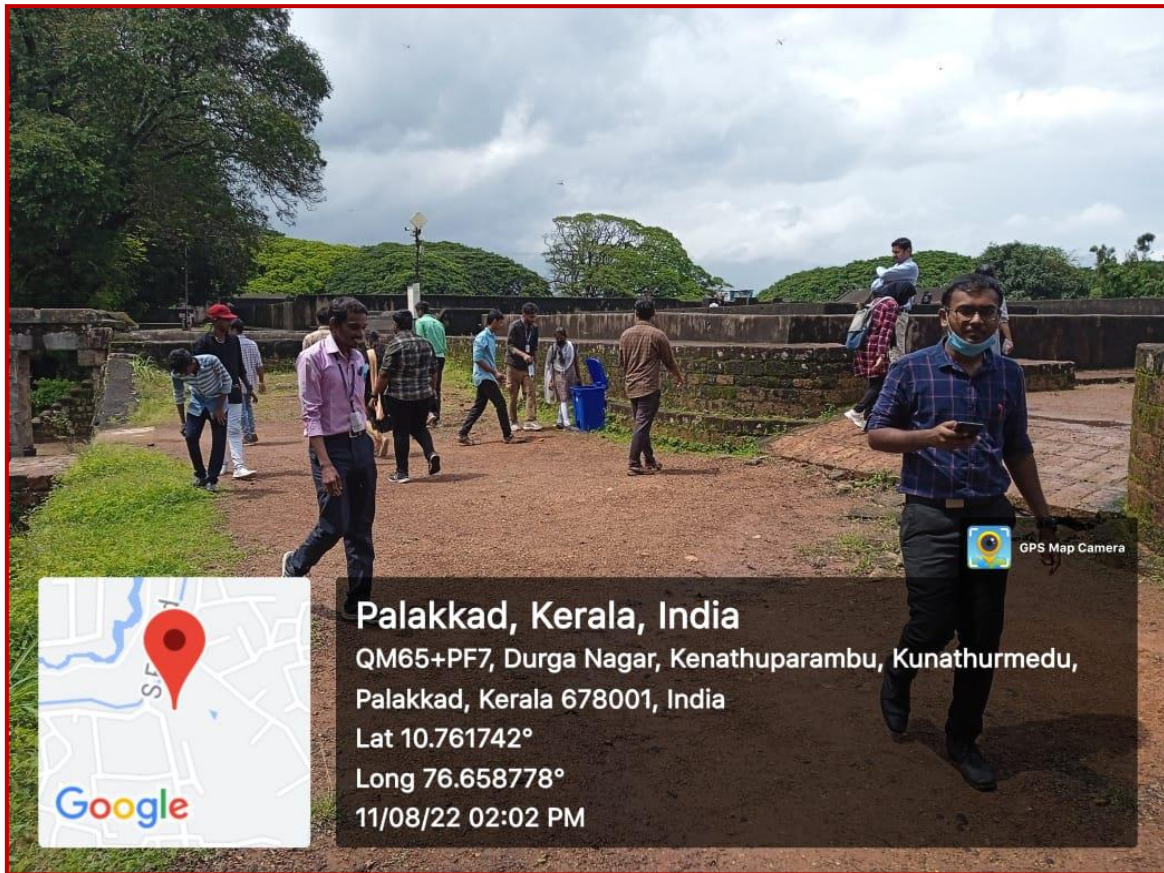
Convenor
Dr. K. Akil
HoD, Civil Engineering

Patrons
Dr. J. Jaya
Principal, HICET

Dr. K. Karunakaran
CEO, Hindusthan Institutions

Flyer of the Outreach Activity





Sample Photographs at the Palakkad Fort

13.3.2 - Does your university as a body have a university Climate Action plan, shared with local government and/or local community groups?

Yes, the institution has established a comprehensive Climate Action plan, collaboratively developed with input from local government and community groups. This plan outlines actionable strategies for reducing greenhouse gas emissions, promoting renewable energy, and enhancing resource efficiency across the campus. Key initiatives include sustainable waste management, water conservation programs, and transitioning to energy-efficient infrastructure. Regular workshops and public consultations ensure the plan remains relevant to evolving environmental challenges. Engagement with local government and NGOs helps extend its impact beyond the campus, fostering a shared commitment to climate resilience. This Climate Action plan underscores the institution's dedication to sustainable development and environmental protection.

13.3.3 - Does your university as a body participate in co-operative planning for climate change disasters, that may include the displacement of people both within a country and across borders, working with government?

No

13.3.4 - Does your university as a body inform and support local or regional government in local climate change disaster/risk early warning and monitoring?

No

13.3.5 - Does your university as a body collaborate with NGOs on climate adaptation?

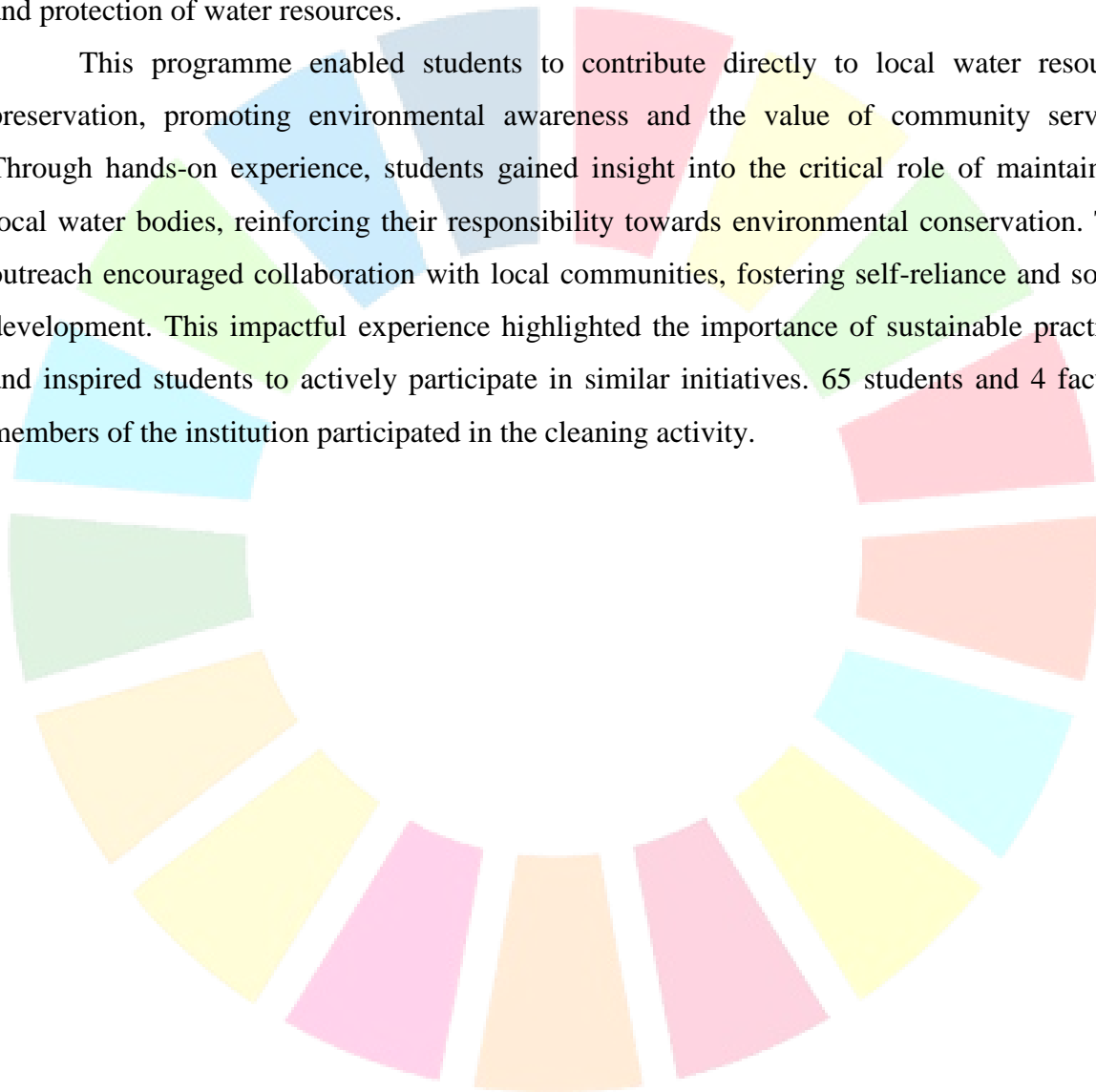
Yes. The institution actively collaborates with various NGOs on climate adaptation projects aimed at building resilience within the campus and local communities. These partnerships support initiatives such as sustainable agriculture workshops, afforestation programs, and water resource management to combat drought and soil erosion. NGOs bring valuable expertise and resources, enabling joint awareness campaigns and skill-building workshops on climate resilience practices. Through these collaborations, the university also engages students in practical adaptation efforts, enhancing their understanding of climate challenges. Together, the institution and its NGO partners are working to create adaptive strategies that support long-term environmental sustainability and community resilience.

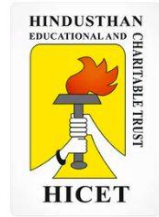
SAMPLE EVIDENCE

Event Summary: Cleaning of Perur Lake

The "Cleaning of Perur Lake" outreach activity was held on 03.08.2022 at Perur Lake, Coimbatore, organized by Hindusthan College of Engineering and Technology in association with the National Service Scheme (NSS) and KovaiKulangalPathukappuAmaippu (KKPA). This regional-level initiative engaged student participants, focusing on community service and protection of water resources.

This programme enabled students to contribute directly to local water resource preservation, promoting environmental awareness and the value of community service. Through hands-on experience, students gained insight into the critical role of maintaining local water bodies, reinforcing their responsibility towards environmental conservation. The outreach encouraged collaboration with local communities, fostering self-reliance and social development. This impactful experience highlighted the importance of sustainable practices and inspired students to actively participate in similar initiatives. 65 students and 4 faculty members of the institution participated in the cleaning activity.





HINDUSTHAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
 An Autonomous Institution, Approved by AICTE, New Delhi
 Affiliated to Anna University, Chennai, Accredited by NAAC with 'A' Grade
 OTHAKKALMANDAPAM, COIMBATORE - 641 032



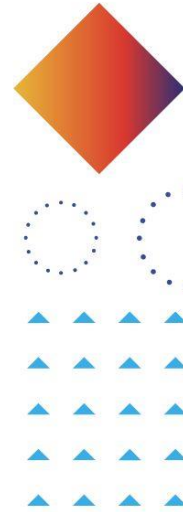
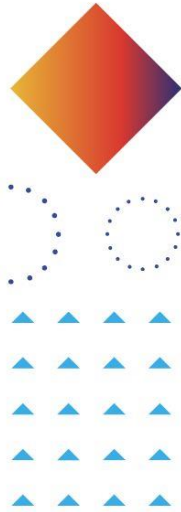
DEPARTMENT OF CIVIL ENGINEERING

Organizes an Outreach Activity on

Cleaning of Perur Lake

In Association With

**National Service Scheme (NSS), HICET &
 Kovai Kulangal Pathukappu Amaippu (KKPA)**



Co-ordinator

Mr. S. Vivek

Assistant Professor
 Civil Engineering, HICET

Convenor

Dr. K. Akil

Professor & Head
 Civil Engineering, HICET



Principal

Dr. J. Jaya

HICET

Co-ordinator

Mr. N. Prasanna Venkatesan

NSS Program Officer
 HICET

Chief Executive Officer

Dr. K. Karunakaran

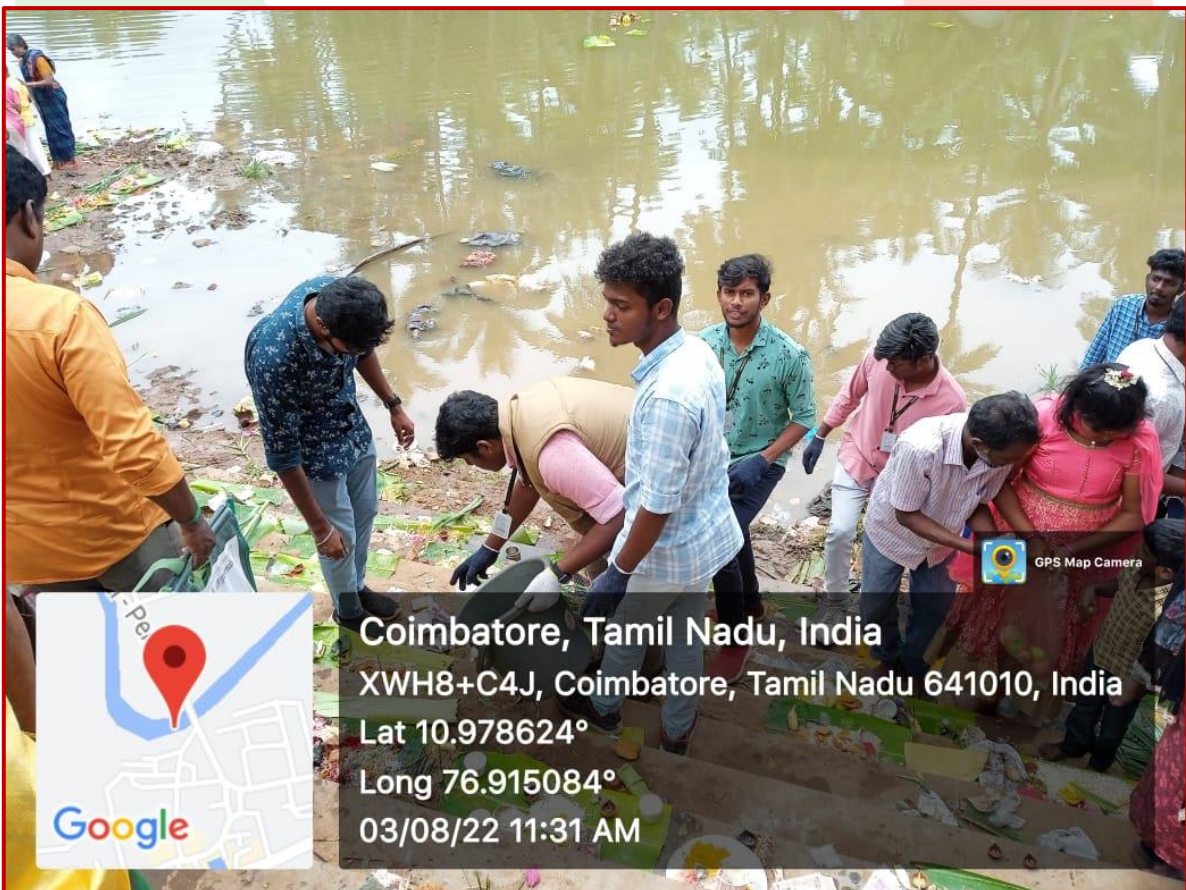
Hindusthan Institutions



03.08.2022, Wednesday at 10:00 AM
Venue: Perur Lake, Coimbatore



Flyer of the Activity





Photographs of the Outreach Activity

13.4 COMMITMENT TO CARBON NEUTRAL UNIVERSITY

13.4.1 - Does your university as a body have a target date by which it will become carbon neutral according to the Greenhouse Gas Protocols?

Yes, Hindusthan College of Engineering and Technology (HICET) is committed to achieving carbon neutrality as part of its sustainability initiatives. The institution has set a target date of 2050 to become carbon neutral, specifically addressing Scope 1 and Scope 2 emissions in accordance with the Greenhouse Gas Protocols. This involves reducing direct emissions from on-campus activities, such as energy use and fuel consumption, as well as indirect emissions from purchased electricity. To achieve this target, HICET has implemented measures like transitioning to renewable energy sources, enhancing energy efficiency in campus facilities, promoting sustainable commuting practices, and minimizing the use of fossil fuels. The campus also plans to expand green infrastructure, such as solar installations and energy-efficient buildings. Regular audits and tracking of emissions ensure adherence to milestones. HICET aims to lead by example in sustainability, fostering a culture of environmental responsibility among its community.

13.4.2 - Achieve by 2050

Hindusthan College of Engineering and Technology (HICET) aims to achieve carbon neutrality by 2050, focusing on reducing Scope 1 and Scope 2 emissions. The plan emphasizes energy efficiency through retrofitting buildings and adopting green technologies, while transitioning to renewable energy sources like solar and wind. Sustainable transportation initiatives include promoting electric vehicles, carpooling, and cycling. A robust waste management system focuses on recycling and composting, alongside efforts to expand green cover and support afforestation projects for carbon offsetting. HICET prioritizes community engagement through awareness campaigns, integrating sustainability into academics, and encouraging research on climate solutions. A dedicated task force will monitor progress, conduct regular audits, and publish reports. The institution plans to collaborate with government, NGOs, and industries, becoming a model for sustainability and fostering innovation to inspire broader environmental stewardship.