

VISHWAKARMA UNIVERSITY

SDG 13 REPORT 2024



**VISHWAKARMA
UNIVERSITY**
Maximising Human Potential

University Grants Commission (UGC) Approved State Private University



Prof.Sweety Thakkar



Maximising Human Potential

About This Report

At Vishwakarma University (VU), our steadfast commitment to sustainable development is profoundly aligned with the United Nations' 2030 Agenda for Sustainable Development. These global goals delineate an aspirational vision for a sustainable future, one that VU has deeply integrated into its institutional framework and curriculum.

Our foundational principle, Unleashing Human Potential, reflects our dedication to cultivating an environment conducive to the holistic development of our students, empowering them with the resilience and confidence required to navigate contemporary challenges.

As part of our sustainability mission, VU has reimagined itself as an Eco-campus, exemplifying innovative and sustainable practices. This report details our continual efforts to minimize our carbon footprint and highlights the impactful partnerships underpinning these achievements. For instance, our Certificate Programme in Sustainability Management, developed collaboratively with Hof University of Applied Sciences, Germany, equips students with advanced competencies in business management and contemporary sustainable practices. Additionally, through a strategic partnership with the Wilo Foundation, we have established the Water Quality Centre of Excellence, aimed at advancing water treatment, purification, and public awareness of clean drinking water.

VU's commitment to sustainability extends beyond environmental stewardship. We have launched a dedicated Center for Sustainability, NEXUS, that undertakes activities aligned with the Sustainable Development Goals (SDGs). Our mission is to cultivate informed, ethical, and skilled individuals who uphold principles of equity, inclusivity, and excellence. By engaging students in practical applications of their knowledge, we bridge the divide between theoretical frameworks and real-world challenges.

Our participatory development model actively involves students and industry stakeholders, ensuring that our academic philosophy equips learners with the competencies essential for addressing the complexities of the modern business landscape. VU's extensive network, encompassing over 45 collaborations with prominent industries and educational institutions—including the Maharashtra State Faculty Development Academy, Queen Mary Technical Institute, Buldhana Urban Cooperative Credit Society, and TATA Technical Limited—facilitates industry projects, live projects, internships, and placements, thus enhancing practical exposure and career prospects for our students.

Furthermore, VU is committed to fostering a well-rounded education and community engagement through initiatives such as the VU-Centre for Communication Development, the Sahyadri Communication Project, and the VU Legal Aid Clinic, all integral components of our VU-iPAR Model. This model emphasizes community involvement, and we encourage student leadership through programs such as the National Service Scheme (NSS) and the Student Council. In alignment with the National Education Policy (NEP) 2020, we offer NEP 2020 courses and have established the VUWCOE – VU Wellness Center of Excellence, supporting holistic development in both academic and wellness dimensions.

In summary, Vishwakarma University's commitment to sustainable development and the SDGs is firmly embedded within our institutional ethos. Through collaborative engagement with diverse stakeholders, we consistently integrate sustainability into our operations, fostering a culture of innovation, research, and learning. VU remains committed to preparing future leaders equipped to drive impactful change, contributing meaningfully to the global vision of sustainable development.

Prof. (Dr) Siddharth Jabade
Vice-Chancellor
Vishwakarma University, Pune, India

VU's Participation in the THE Impact Rankings 2024

Vishwakarma University (VU) also participated last year in Times Higher Education (THE) Impact Rankings 2024, which looks at global universities' commitment and performance in furthering the Sustainable Development Goals (SDGs).

VU took part in the 4 SDGs listed below plus the mandatory SDG 17 and the results were as follows:

Overall Ranking 1001+





13 CLIMATE ACTION



**Climate
Action**

In 2024, Vishwakarma University actively contributed to Sustainable Development Goal 13 –Climate Action because Climate change is now affecting every country on every continent. It is disrupting national economies and affecting lives, costing people, communities and countries dearly today and even more tomorrow.

People are experiencing the significant impacts of climate change, which include changing weather patterns, rising sea level, and more extreme weather events. The greenhouse gas emissions from human activities are driving climate change and continue to rise. They are now at their highest levels in history. Without action, the world's average surface temperature is projected to rise over the 21st century and is likely to surpass 3 degrees Celsius this century—with some areas of the world expected to warm even more.

To take initiatives for climate action Vishwakarma University Contributed in various ways by promoting activities regarding awareness about climate, saving water, saving earth, rain water harvesting tree plantation etc. Furthermore, the university celebrated World Water Day, Tree Plantation, World Environmental Day etc.

13.1. Publications:

Air quality measurement, prediction and warning using transfer learning based IOT system for ambient assisted living	Sonawani S.; Patil K.	International Journal of Pervasive Computing and Communications	2024	1742-7371	https://www.emerald.com/insight/publication/issn/1742-7371	https://doi.org/10.1108/IJPC-07-2022-0271	UGC CARE-II (Scopus/Web of Science)	Article
							UGC CARE-II (Scopus/Web of Science)	Conference paper
							UGC CARE-II (Scopus/Web of Science)	Conference paper
Experimental Evaluation of an Internet of Things Powered Sewage Gas Monitoring and Reporting System using Artificial Intelligence Strategy	Anusha P.; Balaji A.; Nithyasundari B.; Patil Y.D.; Ravi S.	Proceedings 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024	2024	9798350-315912	https://www.proceedings.com/70162.html	https://doi.org/10.1109/ACCAI61061.2024.10601957	UGC CARE-II (Scopus/Web of Science)	
Retrieving Energy from an Inline Hydro Turbine of Irrigation-Dependent Hydropower Plant Under Part Flow Conditions	Kurulekar M.; Kumar K.; Joshi S.	Lecture Notes in Mechanical Engineering	2024	2195-4364	https://www.springer.com/series/11236	https://doi.org/10.1007/978-981-99-5755-2_48		

13.2. Low Carbon Energy Use**Policies:**[VU Clean Energy Technology](#)[VU Campus Water Quality Assurance Policy](#)[VU Green Building and Well-being Policy](#)[VU Water Reuse and Maximisation Policy](#)[VU Renewable energy pledge](#)[VU NSS Policy](#)

13.3. Environmental Educational Measures:

<https://www.vupune.ac.in/event/world-water-day-24>



VISHWAKARMA UNIVERSITY
Maximising Human Potential

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WORLD WATER DAY

Organised by Water Quality Centre of Excellence and Department of Engineering Science in collaboration with WILLO

Theme:
"Harboring Hope, Conserving Water: Smart Peace Initiatives"

Chief Guest:
Mr. Ravi Ulangwar
(Head - Water Management, Wilo)

22nd March 2024
09:00 AM to 05:00 PM
Vishwakarma University, Building No. 2

Events

- Ideathon
- Water Themed Refreshments Without Fuel
- Animated Video | • Partum i Orbis

Entry fee
Rs. 100/- per participant

Prizes
E-certificates for participants, medals for winners

Domains
Students of all domains can participate

Register Here



Faculty Coordinators:
Prof. Jupinder Kaur (80544 47035)
Prof. Yogita D. Patil (98604 43455)

Student Coordinators:
Jujhaar Singh (9503906627)
Mrunmayee Datar (8080143493)
Shreta Das (9832764453)
Abhijit Karji (7387697736)

Event Details:

Date: March 22, 2024

Venue: Vishwakarma University, Building No. 02, Pune

Session Attendees:

All students and faculty members of Vishwakarma University, Pune.

About the Event:

The Water Quality Centre of Excellence and the Department of Engineering Science, in collaboration with WILO, are celebrating World Water Day on March 22nd, 2024. Event aimed for raising awareness and spreading the importance of water. Different competitions were organised like Ideathon, Water themed refreshment without fuel, Animated videos etc

Objective:

To create awareness on the importance of water conservation and its role in sustainable living.

To highlight the link between equitable water access, peace, and community well-being.

To encourage adoption of smart and eco-friendly water management practices.

To engage students and community members as active participants in water conservation initiatives.

To align the celebration with SDG 6 (Clean Water & Sanitation) and SDG 16 (Peace, Justice & Strong Institutions).

Outcomes:

The World Water Day celebrated successfully with great efforts, World Water Day seeks to inspire greater appreciation for water, encourage responsible use, and foster global cooperation in protecting this vital resource for future generations.

Photos of events:

Social Media Link for event:

<https://www.instagram.com/p/Cq2UplAOL3e/?igshid=YmMyMTA2M2Y=>

<https://www.facebook.com/100065188080428/posts/>

[pfbid0JcaMFCquMbWdkLUnV3D6NAbuVpYxYXyL4uavxxfrw6UtlGnDqwawqGowvSfacHf5l/?app=fbl](https://www.facebook.com/100065188080428/posts/pfbid0JcaMFCquMbWdkLUnV3D6NAbuVpYxYXyL4uavxxfrw6UtlGnDqwawqGowvSfacHf5l/?app=fbl)

Summary of event:

In conclusion, the World Water Day event at Vishwakarma University was a resounding success, uniting students, faculty, and staff in raising awareness about water sustainability. From Mr. Ravi Ulangwar's enlightening session to engaging competitions, participants demonstrated a deep commitment to addressing water challenges.



13.3.2. World Environment Day Celebration

Date: 05/06/2024

Objectives:

- Educate participants about environmental issues
- Encourage sustainable practices
- Sensitize the participants of their surroundings.
- Theme: "Land Restoration, Drought Resilience, and Combating Desertification."

Google Form Link: <https://forms.gle/e3j7Le33SrbS11WY9>

Online Competition for World Environment Day 2024
 "Our Land, Our Future. We Are #GenerationRestoration"
 Organised by:
 VU Centre For Sustainability Nexus (CSN)
Theme:
 "Land Restoration, Drought Resilience & Combat Desertification"
Committee members:
 Dr. Ashwini Sonawane
 Dr. Jaymala Kumavat
 Prof. Divya Somakumar
 Prof. Aditi Jain

No.	Sub-Themes
1.	Reviving Degraded Lands: "From Barren to Blooming"
2.	Drought-Resilient Landscapes: "Thriving Amidst Aridity"
3.	Combating Desertification: "Green Against the Sand"
4.	Water Conservation and Management: "Every Drop Counts"
5.	Biodiversity and Ecosystem Restoration: "Nature's Comeback"
6.	Community Involvement in Land Restoration: "Hands Together for Earth"
7.	Urban Green Spaces: "Green Cities, Healthier Lives"
8.	Traditional Knowledge and Practices: "Wisdom of the Ancients"
9.	Impact of Climate Change on Land: "Changing Landscapes"
10.	Before and After Restoration: "Transformation Tales"

Photo Contest

Eligibility
 Vishwakarma University Students & Faculties

Judging Criteria
 Creativity, relevance to theme & impact

Scan QR Code

1. Attach a link of your photo from social media
2. Submit your clicked photo

Summary:

The Centre for Sustainability nexus organized an Online Photo Contest to celebrate the World Environment Day 2024. The theme was focused on "Land Restoration Drought Resilience, and Combating Desertification." The contest aimed to raise awareness and inspire action by encouraging participants to capture images of local land restoration efforts and drought resilience projects. There was a total of 12 submissions by both Students and Faculties of Vishwakarma University. This event was also mapped globally to the UNEP Page

World Environment Day Photo Contest
 Vishwakarma University, Pune
 VU-CDN is organizing an online Photo Contest On June 5/2024 for students and faculties as an ongoing way to raise awareness and inspire action for sustainability.

Certificate of Appreciation

Congratulations for contributing to World Environment Day 2024 through your event or activity. The United Nations Environment Programme (UNEP) expresses its appreciation to:

Vishwakarma University, Pune

from

Pune, Maharashtra, India

for joining the #GenerationRestoration movement and making World Environment Day 2024 a huge success. Together, we can restore land, build drought resilience and combat desertification.

worldenvironmentday.global

Congratulations!
 World Environment Day 2024
Winners of Online Photo Contest

Students
 Aarya Deshpande

Faculty
 Prof. Makarand Vishnu Puri

Students
 Sumitra Paliwal

13.3.3. Plantation Drive:

Vishwakarma University, in partnership with the Forengers Organisation, hosted an event on June 23rd and 24th. The goal of the drive was to encourage environmental stewardship and community engagement as a foundation for ongoing sustainability efforts.



Conclusion

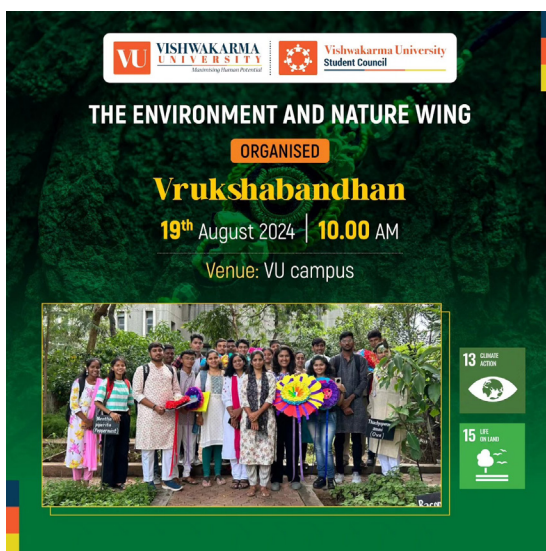
Vishwakarma University made significant strides in 2024 towards achieving

Social Media Post:

https://www.linkedin.com/posts/vishwakarmauniversity_plantation-drive-activity-7216040798193127425-GQHc?utm_source=share&utm_medium=member_desktop
https://www.instagram.com/p/C9KSkX_BUfo/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==

13.3.4. Vrukshabandhan

The Environment and Nature wing, Vishwakarma University celebrated Vrukshabandhan. The university's Raksha Bandhan celebrated featured with handmade rakhees crafted from waste and leftover decorative materials by Abhivyakti wing of student council, promoting sustainable practices. The university's Raksha Bandhan celebrated featured with handmade rakhees crafted from waste and leftover decorative materials by Abhivyakti wing of student council, promoting sustainable practices.



"Climate change knows no borders, so it's time humanity unites to protect our planet. This initiative stems from India's tradition of loving and caring for nature."
- Clifford Gumireshe,
2nd Year Travel and Tourism student



"The university's Raksha Bandhan celebration featured handmade Rakhees crafted from waste and leftover decorative materials by the Abhivyakti wing of the student council, promoting sustainable practices."
- Prof. Vaibhav Thakare,
Director, Student Welfare Association

Nature:
Tying Rakhis to trees on campus to symbolize our commitment to protecting them

Participants:
Environment and Nature committee members



Conclusion

Climate change knows no border, so its time humanity unites to protect our planet. This initiative stems from Indian's tradition of loving and caring for nature. Vishwakarma University celebrated Vrukshabandhan on August 19th, 2024 showcasing their commitment to a greener future! Students tied Rakhi's to trees, symbolizing their dedication to protecting the environment. These beautiful Rakhi's were crafted from waste materials, reflecting their focus on sustainability's.

Social Media Post:

[Facebook](#)

[Vrukshabandhan | Vishwakarma University - VU](#)

13.3.5. Guest Session:

Date of activity: 4 Sep 2024

Vishwakarma University arranged guest session on SDG-based Environment and Climate Education for B.Tech Computer Engineering students on September 04th, 2024, featuring experts Mrs. Bharati Chavan and Mr. Dr Vikrant Kulkarni, coordinated by Dr.Kavita Kumavat and Prof. Suhas Chavan.



Social Media Post:

https://x.com/VU_Connect/status/1829438146414592205

https://www.instagram.com/p/C_SZ2qpyw4u/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==

[#sdgenvironmenteducation](#) [#btechcomputerengineering](#) [#guestsession](#) [#sustainablefuture](#)
[#vishwakarmauniversitypune](#) | Vishwakarma University - VU

13.4.1. Commitment to carbon neutral university:

Vishwakarma University is committed to becoming a carbon-neutral campus by integrating clean energy solutions, sustainable infrastructure, and eco-friendly practices. A major step in this direction is the promotion and adoption of electric vehicles (E-vehicles) and facility for charging to significantly reduce greenhouse gas emissions from campus transport.



Rain Water Harvesting:

As part of its commitment to sustainability and SDG 13 – Climate Action, Vishwakarma University has adopted Rainwater Harvesting (RWH) as a key initiative to conserve water and promote eco-friendly practices on campus.



HYALINE WATER CORPORATION
C: Flat no. 2, Pradhyangadhi - A, off Sinhgadi Road, Parvati,
Pune - 411035
R: Flat no. 18, Govind Smriti, 1427 Sadashiv Peth, Pune -
411030
Web site: www.hyaline.in Contact no: 9660164787

Date: 22-09-15

TO WHOMSOEVER IT MAY CONCERN

WORK COMPLETION CERTIFICATE

This is to certify that we had designed, supervised and installed the rain water harvesting system, storm water collection for rain water harvesting, percolation pit designs, filtration media specifications for VIIT & VIM (for wing 1 to 6), Sr. No. 3/4, Kondhawa-Bk, Tal – Haveli, Pune. The rain water harvesting system has been satisfactorily commissioned and handed over to you.

Thanking you,

Yours faithfully,

For, Hyaline Water Corporation.

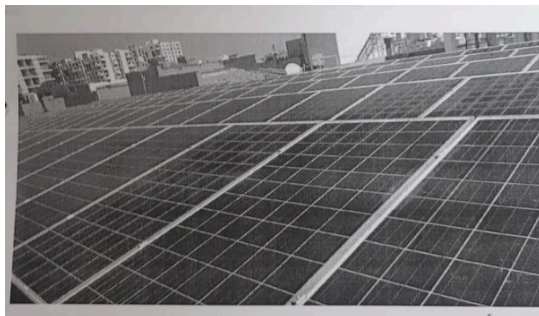
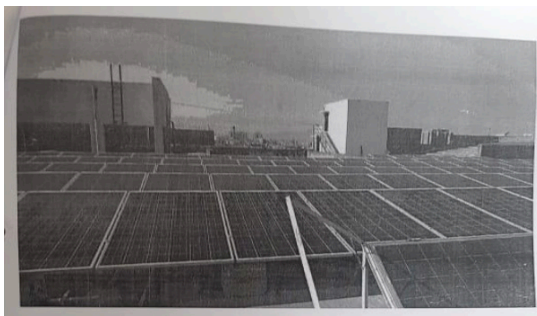


Authorized signatory.



Solar System and Sensor Light Installation Facility: Solar Power System

Purpose: To generate clean, renewable electricity for powering lights and other electrical needs.



Sensor-Based Lighting System

Purpose: To automate lighting, save energy, and improve safety/security.



Key Outcomes

Awareness & Engagement – Multiple events (World Water Day, World Environment Day, Plantation Drive, Vrukshabandhan, Guest Sessions) successfully raised awareness on climate action, sustainability, and conservation among students, faculty, and the community.

Academic Contribution – Research publications and conference papers on climate-related technologies (IoT for air quality, sewage gas monitoring, hydropower solutions) contributed to global knowledge aligned with SDG 13.

Policy Initiatives – Implementation of VU Clean Energy Technology, Water Reuse & Maximisation Policy, Renewable Energy Pledge, and Green Building Policy demonstrated institutional commitment to low-carbon energy use.

Community Outreach – Activities like plantation drives and sustainable celebrations (e.g., eco-friendly rakhees for Vrukshabandhan) fostered environmental stewardship beyond campus.

Global Linkages – Events were mapped with international observances (UNEP World Environment Day, UN's SDGs) showcasing VU's alignment with global sustainability goals.

Commitment to Carbon Neutrality – The university reaffirmed its mission towards becoming a carbon-neutral campus.

Summary Note for SDG 13

In 2024, Vishwakarma University made significant strides towards Sustainable Development Goal 13: Climate Action through research, policies, and community-driven activities. The institution fostered climate awareness and sustainable practices by celebrating World Water Day, World Environment Day, Plantation Drives, and unique initiatives like Vrukshabandhan. Research outputs in renewable energy and IoT-driven environmental monitoring showcased academic contributions to addressing climate challenges.

The adoption of clean energy, water reuse, and green building policies highlighted the university's institutional commitment. With active student and faculty participation, and global alignment to UNEP and SDG frameworks, Vishwakarma University strengthened its role as a sustainability leader. The overall efforts emphasized awareness, responsibility, and innovation, reaffirming its pledge to work towards a carbon-neutral future.



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