



Sandip University, Nashik
School of Engineering and Technology
Department of Electrical Engineering

Event Report: Rain Water Harvesting Program

Organized by: EE

Date of the Event: 14.08.2026

Venue: G113, SOET, Sandip University, Nashik

Number of Participants: All Second Year

1. Introduction

The Rain Water Harvesting Program was organized for Second-Year Engineering students with the objective of creating awareness about the importance of rainwater conservation and sustainable water management. The session introduced Rain Water Harvesting (RWH) as the process of collecting and storing rainwater from rooftops, land surfaces, or rock catchments for future use. The program covered the importance of RWH in reducing dependency on conventional water sources, recharging groundwater, reducing water scarcity, and promoting sustainable water management. Students were also introduced to different RWH methods, system components, filtration, storage, groundwater recharge, practical calculations, applications, challenges, and implementation procedures.

2. Key Highlights & Activities Conducted

During the session, students were introduced to the following key aspects of Rain Water Harvesting:

- ❖ **RWH Concepts & Types:** Introduction to rainwater harvesting, its importance, and rooftop, surface runoff, and in-situ methods.
- ❖ **System Components:** Overview of catchment, gutters, first-rain separator, filters, storage tanks, distribution, and recharge structures.
- ❖ **Filtration & Storage:** Discussion of mesh, sand, charcoal and UV filters, along with above-ground and underground storage systems.
- ❖ **Groundwater Recharge:** Introduction to recharge pits, trenches, wells, and percolation tanks.
- ❖ **Water Yield Calculation:** Demonstration of rainwater-yield calculation with an example of 64,000 litres/year.
- ❖ **Applications & Challenges:** Discussion of water uses, benefits, challenges, and practical solutions.
- ❖ **Implementation & Case Studies:** Overview of system design, installation, cost estimation, maintenance, and successful RWH implementations.

Outcomes and Impact

- **Water Conservation Awareness:** Improved understanding of rainwater conservation and sustainable water management.
- **Water Conservation Awareness:** Improved understanding of rainwater conservation and sustainable water management.
- **Technical Knowledge:** Gained basic knowledge of RWH components, filtration, storage, and recharge methods.
- **Practical Understanding:** Learned about water-yield calculation, system design, cost estimation, installation, and maintenance.
- **Sustainability Awareness:** Understood the role of RWH in groundwater recharge, flood reduction, and water security.
- **Innovation Awareness:** Introduced to potential RWH projects, including IoT-based monitoring, low-cost filters, water-quality analysis, and mobile applications.

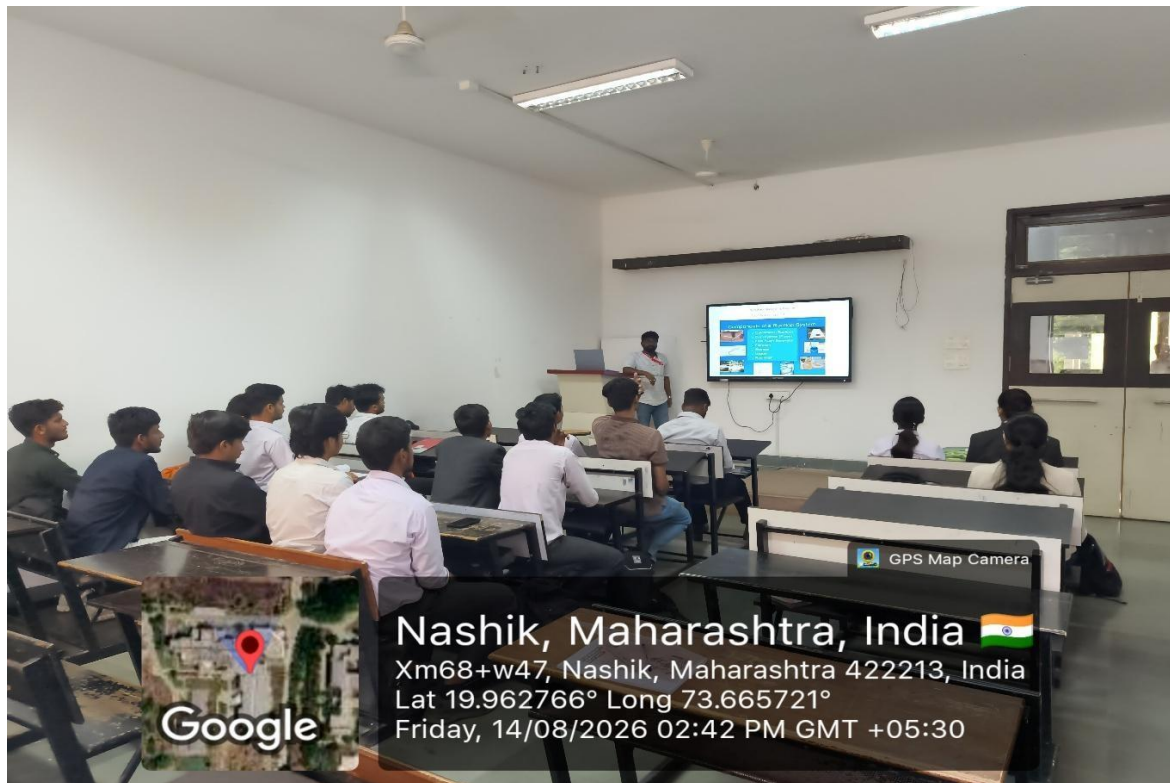
Conclusion

The Rain Water Harvesting Program effectively enhanced students' understanding of rainwater conservation, sustainable water management, and practical RWH systems. The session provided essential technical and practical knowledge, encouraging students to adopt sustainable approaches for water conservation, groundwater recharge, and long-term water security.

SDG Mapping:

- SDG 4 – Quality Education: Enhanced students' knowledge and practical awareness of sustainable water management and conservation techniques.
- SDG 6 – Clean Water and Sanitation: Promoted rainwater conservation, groundwater recharge, and sustainable management of water resources.
- SDG 11 – Sustainable Cities and Communities: Encouraged sustainable water-management practices that contribute to resilient and environmentally sustainable communities.
- SDG 12 – Responsible Consumption and Production: Encouraged responsible and efficient use of water resources.







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GPS Map Camera

Nashik, Maharashtra, India 
Xm68+w47, Nashik, Maharashtra 422213, India
Lat 19.962766° Long 73.665722°
Friday, 14/08/2026 02:25 PM GMT +05:30



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NASHIK

RAIN WATER HARVESTING Program

Collect Today, Conserve Tomorrow

Organized by

Department of Electrical Engineering

-  **DATE**
Friday, 14 August 2026
-  **TIME**
02:00 PM – 03:00 PM
-  **VENUE**
G113, SOET, Sandip University,
Nashik
-  **EVENT COORDINATORS**
Mr. Shankar Pandit & Mr. Imran Ahamad
-  **PARTICIPANTS**
All Second-Year B.Tech.
Electrical Engineering Students



CONSERVE WATER

Reduce dependency on conventional water sources.



RECHARGE GROUNDWATER

Enhance groundwater level and ensure water security.



SUSTAINABLE FUTURE

Promote environmental balance and sustainable development.



LEARN

- RWH Concepts & Types
- System Components
- Filtration & Storage



CALCULATE

- Rainwater-Yield Calculation
- Example: 64,000 Litres/Year
(100 m² roof, 800 mm rainfall,
0.8 runoff coefficient)



IMPLEMENT

- System Design
- Installation
- Testing & Maintenance



INNOVATE

- IoT-Based Smart RWH
- Low-Cost Filter Designs
- RWH Projects & Ideas



MAKE AN IMPACT

- Conserve Today
- Ensure Water Security
- Build a Better Tomorrow



EVERY DROP COUNTS. EVERY ACTION MATTERS.





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SANDIP UNIVERSITY, NASHIK
School of Engineering and Technology
Department of Electrical Engineering

ATTENDANCE SHEET - Rain Water Harvesting Program For SE EE

Date:

Time:

Venue:

Sr. No.	Student Name	Roll No.	Division	Mobile No.	Signature
1	Krushna D Pawar	250101081024	A1	8446377810	<i>[Signature]</i>
2	Laxmi Kalwar	250101081048	A1	7353852398	<i>[Signature]</i>
3	Nayshavi Patil	26SUN2053	A3	8956166142	<i>[Signature]</i>
4	Prasad Lavhat	250101081027	A1	8492960082	<i>[Signature]</i>
5	Aman Ghokh	250101081022	A2	9325830479	<i>[Signature]</i>
6	Abhay Vishwakarma	250101081003	A1	2118231507	<i>[Signature]</i>
7	Piyush Naire	250101081031	A1	9552585702	<i>[Signature]</i>
8	Sunil Kulkarni	250101081037	A1	9999131379	<i>[Signature]</i>
9	Nikhil Paswan	26SUN2762	A2	6299152957	<i>[Signature]</i>
10	Mukesh V. Chaudhary	250101081013	A1	8208236678	<i>[Signature]</i>
11	Shayeshin Patil	260101082004	A2	9286954188	<i>[Signature]</i>
12	Mukesh Jadhav	250101081005	A2	9226880468	<i>[Signature]</i>
13	Mangur Patil	260101082003	A2	9402450565	<i>[Signature]</i>
14	Mangresh Pednekar	250101081034	A1	9960342844	<i>[Signature]</i>
15	Harsh Sankar	250101081027	A2	7757001180	<i>[Signature]</i>
16	Shubham Jhaige	250101081001	A2	9809238626	<i>[Signature]</i>
17	G. Siddhartha	250101081039	A2	9075996195	<i>[Signature]</i>
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Total Participants Present:

17

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Faculty Coordinator Signature:
HOD Signature:
[Signature]
14/8/26

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Event coordinator sign

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H.O.D.
Electrical Engineering
School of Engineering and Technology
Sandip University, Nashik

