SUSTAINABLE DEVELOPMENT GOAL 9

Industry, Innovation and Infrastructure

Woxsen University | Ethics, Responsibility & Sustainability (ERS) Activity Report | January – July 2026

This report presents 6 ERS activities carried out between January and July 2026 that contribute to SDG 9 (Industry, Innovation and Infrastructure). Activities that address several goals are reported under each relevant SDG, so some entries also appear in other SDG reports. Related recurring sessions have been grouped into a single entry.

Gyan-Deep – Honouring Wisdom, Embracing Spring, Celebrating Science

23 Jan 2026, 11:30 am – 12:30 pm | IoT Lab, Woxsen University | School of Sciences | Participants: 100

Reported SDG alignment: SDG 4, SDG 9, SDG 11

A gathering of undergraduates, PhD scholars, faculty and staff that blended India's knowledge traditions with modern scientific inquiry. The programme included a traditional lamp-lighting ceremony and reflections on knowledge, curiosity and ethical responsibility in science.

Participants appreciated the integration of culture and science, and the event highlighted preserving cultural knowledge alongside modern education.







TerraLab – Portable Science Laboratory

25 Feb 2026 | ZPHS, Kamkole | School of Technology (Team Kankyō) | Participants: 57

Reported SDG alignment: SDG 2, SDG 4, SDG 6, SDG 9, SDG 13

A portable laboratory taken to the school so that students of class 9 and above could measure soil moisture, water pH, TDS, turbidity and temperature with sensors, and relate the readings to issues such as water contamination, soil health, acid rain and climate change.

TerraLab replaces textbook-only teaching with hands-on environmental experiments, building data literacy, environmental awareness and problem-solving skills. After the session participants could connect changes in water and soil parameters with real environmental problems around them.









HydroGuardian 2.0 – AI-Powered Aquaculture System

11 May 2026, 10:00 am – 1:00 pm | Smartgreen Aquaculture Limited | School of Technology (Societal Internship Program) | Participants: 4

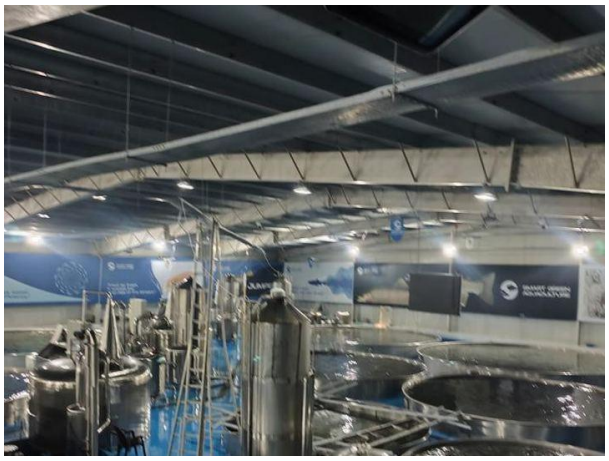
Reported SDG alignment: SDG 6, SDG 9, SDG 14

A student project that combines IoT sensors with AI/ML to monitor aquaculture water quality and compute a real-time Hydro Stress Index, so fish farmers get early warning of risks to fish health.

Traditional monitoring relies on manual observation and experience and often misses early warnings. The team studied aquaculture systems, fish health management and predictive analytics, then built a system that predicts stress conditions and recommends preventive action, supporting sustainable, data-driven fish farming.









Pedda Goppularam School Engagement

Dates: 17 Jun 2026, 14 Jul 2026, 28 Jul 2026 | ZPHS, Pedda Goppularam, Sangareddy District | SOLH – Media Studies

Reported SDG alignment: SDG 4, SDG 9, SDG 10

Media Studies faculty of SOLH built a sustained engagement with Zilla Parishad High School, Pedda Goppularam (Munipally Mandal, Sangareddy), moving from a needs-assessment visit to classroom sessions on digital literacy and English communication.

Needs-assessment visit (17 Jun) (17 Jun 2026; participants: 40). Faculty met the headmaster, teaching and non-teaching staff to understand the school's challenges and plan educational support for the coming academic year.

Digital literacy & English orientation (14 Jul) (14 Jul 2026; participants: 31). An orientation on foundational computer literacy and everyday English communication, led by Dr. Madhu B. Baghel, Dr. N. Praveen Kumar and Dr. Neeraj Bunkar.

Hands-on computer training (28 Jul) (28 Jul 2026; participants: 27). A follow-up session giving rural students practical digital literacy skills through hands-on computer training.









Summary of activities

Date	Activity	Participants
23 Jan 2026	Gyan-Deep – Honouring Wisdom, Embracing Spring, Celebrating Science	100
25 Feb 2026	TerraLab – Portable Science Laboratory	57
11 May 2026	HydroGuardian 2.0 – AI-Powered Aquaculture System	4
17 Jun 2026	School Outreach and Needs Assessment Visit	40
14 Jul 2026	Power to Empower – Digital Literacy and English Communication (14 Jul)	31
28 Jul 2026	Power to Empower – Hands-on Computer Training (28 Jul)	27