SUSTAINABLE DEVELOPMENT GOAL 14

Life Below Water

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

This report presents 1 ERS activity carried out between January and July 2026 that contribute to SDG 14 (Life Below Water). 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.

HydroGuardian 2.0 – AI-Powered Aquaculture System

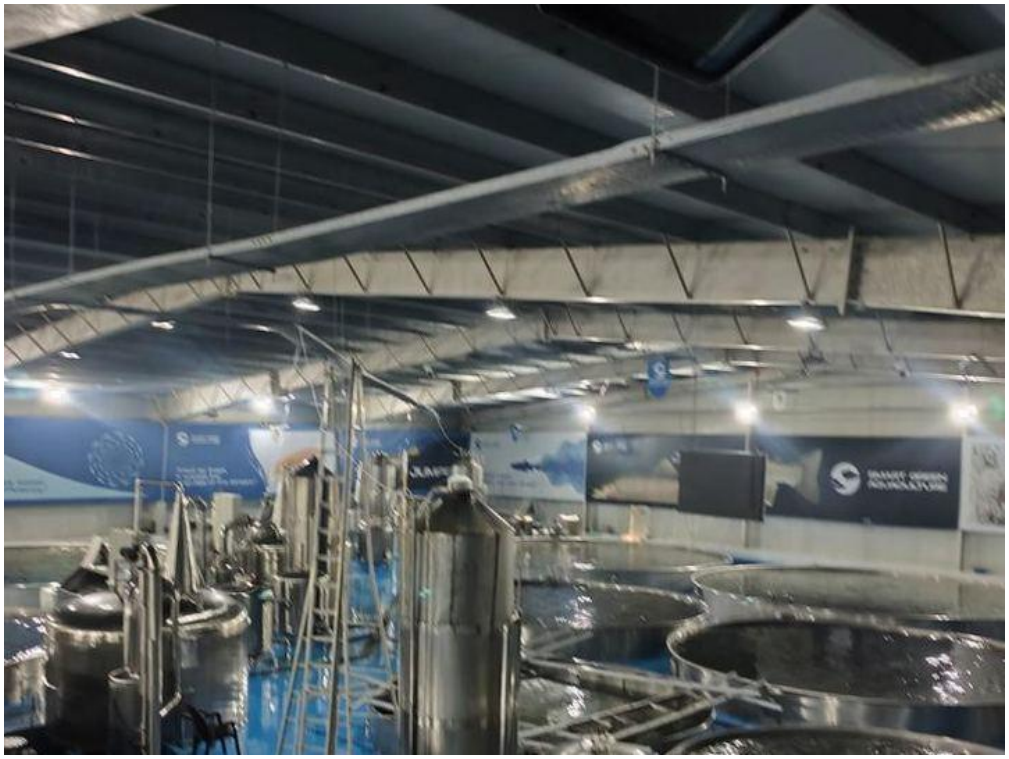
Date and time	11 May 2026, 10:00 am – 1:00 pm
Venue	Smartgreen Aquaculture Limited
School / Department	School of Technology (Societal Internship Program)
Participants	4
SDG alignment	SDG 6, SDG 9, SDG 14

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.











Summary of activities

Date	Activity	Participants
11 May 2026	HydroGuardian 2.0 – AI-Powered Aquaculture System	4