SDG 12: Responsible Consumption and Production

Woxsen University | ERS Activities Report | January to July 2026

This report presents ERS activities from January to July 2026 that promote responsible consumption and production: reuse, sustainable materials, reduced chemical use and environmental awareness. Activities that connect to SDG 12 through related goals such as climate action, water and life on land are included with the link noted. Total activities in this report: 12.

1. Clothes Distribution Drive: Reuse and Responsible Consumption

Date: January 2026 **Venue:** Woxsen University campus

Participants: 50+ workers, 7 students and 3 faculty (School of Law) **SDG:** SDG 1, 10, 12

Donated clothes were collected, checked for quality and redistributed to campus workers. This extends the life of garments and encourages students to reuse rather than discard.







2. PestVscan: AI Smartphone App for Precision Pest Detection

Date: 23–25 February 2026 **Venue:** XXth DGSI International Geography Conference, Sri Venkateswara University, Tirupati

Participants: 800+ attendees (School of Technology) **SDG:** SDG 12

An AI/ML and geospatial app that identifies pests from a photo and recommends treatment based on Economic Threshold Levels, so pesticide is used only when needed. This cuts excess pesticide use, protects the environment and lowers costs for small farmers.







3. Craft Innovation: Traditional Craft Exploration and Contemporary Design

Date: 17 Feb – 6 March 2026 **Venue:** School of Arts & Design studios

Participants: 25 Industrial Design students, Semester VI **SDG:** SDG 4, 8, 11, 12

Students worked with terracotta and design-thinking exercises to reinterpret traditional craft methods as new product concepts, valuing local materials and responsible design.







4. TerraLab: Portable Science Laboratory

Date: 25 February 2026 **Venue:** ZPHS, Kamkole
Participants: 57 students (School of Technology) **SDG:** SDG 4, 6, 2, 13, 9 (linked to SDG 12)

Students measured water, soil and air quality with low-cost sensors, building the habit of using environmental data to guide responsible use of resources.





5. HydroGuardian 2.0: AI Aquaculture Monitoring

Date: 11 May 2026 **Venue:** Smartgreen Aquaculture Limited
Participants: School of Technology team **SDG:** SDG 14, 9, 6 (linked to SDG 12)

An IoT and machine-learning system monitors water quality and produces a Hydro Stress Index for early warnings, supporting efficient, data-driven fish farming with less risk and waste.






6. Earth Day 2026: “Give to Nature – Sustain the Future”

Date: 22 April 2026 **Venue:** LT-4, Woxsen University
Participants: 100 students and faculty (School of Sciences) **SDG:** SDG 12, 13, 15

A talk on global warming and pollution promoted eco-friendly products and the reduce, reuse, recycle and renew approach. An eco quiz and a debate followed, strengthening everyday sustainable habits.







7. Summer School: Reimagine Your City, Sustainability and Green Buildings

Date: 26, 29 and 30 May 2026 **Venue:** Woxsen University campus
Participants: 60 students of Grades 9–12 **SDG:** SDG 11, 4 (linked to SDG 12)

Introduced passive, low-energy design and green buildings to school students, who finished by making seed balls, an example of low-waste reforestation.





8. Seed Ball Making and Reforestation Drive

Date: 23 June 2026 **Venue:** Woxsen University campus
Participants: 24 B.Arch students (School of Architecture & Planning) **SDG:** SDG 11, 13, 15 (linked to SDG 12)

After a lecture on ecological restoration and native species, students mixed and shaped seed balls by hand using local materials, a low-cost, low-waste method of restoring vegetation.

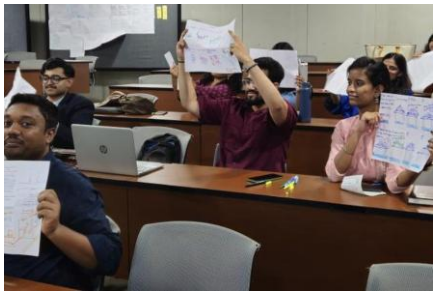





9. Global Goals Jam, Hyderabad: Designing for Urban Resilience

Date: 29–30 June 2026 **Venue:** School of Arts & Design, Woxsen University
Participants: 17 participants (faculty, students, professionals) **SDG:** SDG 11, 13, 15 (linked to SDG 12)

The Hyderabad node of a UNDP-affiliated design sprint. Participants used stakeholder and community-asset mapping and systems thinking to propose solutions for the Durgam Cheruvu lake area.


10. Material Exploration Electives: Bamboo and Leather

Date: 10–22 July 2026 **Venue:** School of Arts & Design, Woxsen University
Participants: 85 students (34 bamboo, 51 leather) **SDG:** SDG 13 (linked to SDG 12)

Students studied bamboo as a rapidly renewable material and made prototypes in bamboo and leather, practising efficient material use, less fabrication waste and durable product design.






11. PLANT-MITRA 3.0: A Green Campus Initiative

Date: 28 July 2026 **Venue:** Forest area opposite Care & Cure, and LT-4
Participants: 100 faculty, staff and scholars (School of Sciences) **SDG:** SDG 13, 15 (linked to SDG 12)

A tree-plantation drive followed by a debate and an interactive quiz to encourage responsible environmental practices.





12. Smile Drive: Donation and Reuse

Date: 22 July 2026 (planned) **Venue:** Community Outreach Centre (off-campus)
Participants: Humanique HR Club with A.A.C.E Organisation **SDG:** Linked to SDG 12 (also 4, 10)

The poster shows donated clothes, books and stationery being collected and passed on to children, encouraging reuse and sharing over disposal.

