



Sustainability Highlights

Academic Year 2025–2026

Empowering Sustainability Through
Research, Education, and Community Action

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Foreword: A Commitment to a Sustainable Oman

At the University of Technology and Applied Sciences (UTAS), we recognise that higher education institutions bear a profound responsibility to lead the transition toward a sustainable future. As the Sultanate of Oman accelerates toward its Vision 2040 and Net-Zero 2050 goals, UTAS serves as an engine of progress. This report highlights our measurable institutional transformation—from embedding environmental education into our curricula to producing world-class, data-driven green technology research.



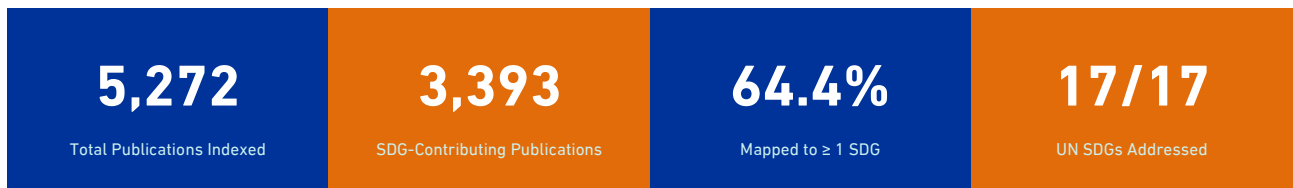
Aligning with Oman Vision 2040 and the SDGs

UTAS's sustainability strategy is deeply aligned with Oman's national Vision 2040 framework, which prioritises knowledge-based economic diversification, environmental stewardship,

and social cohesion. Every initiative in this report maps directly to one or more of the 17 UN Sustainable Development Goals, ensuring our actions contribute to the global agenda.

A Data-Driven Approach: Academic Impact at Scale

We do not just teach sustainability; we research, innovate, and publish at a global scale. According to the Elsevier Scopus SDG Research Impact Dashboard (April 2026), UTAS is driving massive global impact. Out of 5,272 total institutional publications, an incredible 3,393 publications (64.4%) are directly mapped to at least one UN Sustainable Development Goal.



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GOVERNANCE, ETHICS, AND INSTITUTIONAL INTEGRITY

[SDG 4, 8, 10, 16]

UTAS enforces rigorous institutional governance. Our commitment to these principles is backed by 77 research publications on Peace, Justice, and Strong Institutions (SDG 16) and 80 publications on Reduced Inequalities (SDG 10).

77

SDG 16 Publications (Peace, Justice & Strong Institutions)

80

SDG 10 Publications (Reduced Inequalities)

Fostering a Culture of Academic Integrity

During the 2024–2026 academic years, UTAS launched multi-level Academic Integrity training programmes, ensuring every campus champions a culture of honesty and ethical conduct in research and education.

- **UTAS-Salalah** Delivered an unprecedented 15-programme training series for over 200 faculty and staff, focusing on research ethics and a culture of honesty.
- **UTAS-Muscat** Hosted multiple awareness sessions, culminating in an event where 84 students formally signed an Academic Integrity Pledge.

Navigating the AI Era: Ethics in Technology and Research

As Artificial Intelligence transforms academia, UTAS is proactively establishing ethical guardrails. UTAS-Muscat hosted expert-led workshops on 'AI Detection Tools' and 'Ethical Use of AI Proofreading Tools.'

Empowering Regional Governance & Leadership

Governance extends to operational fairness. UTAS-Nizwa partnered with the Oman Chamber of Commerce to deliver the 'Law in the Workplace: Rights and Duties' training, hosting 57 administrative leaders from over 40 government institutions across the Al-Dakhliya Governorate.

57

Administrative Leaders Trained

40+

Government Institutions Represented

UTAS ensures graduates possess practical, market-ready skills to tackle climate challenges. Beyond our specialised MSc programmes in Food Security and Energy Transition and Sustainability, UTAS has systematically mapped its undergraduate and graduate curricula to the UN SDGs, creating one of the most comprehensive sustainability-linked curriculum directories in the region.

Pioneering Master's Programmes: Food Security & Energy Transition and Sustainability

UTAS offers two groundbreaking postgraduate programmes that directly address Oman's strategic priorities: the MSc in Food Security and the MSc in Energy Transition and Sustainability. These programmes equip students with cutting-edge knowledge in sustainable agriculture, renewable energy systems, carbon management, and circular economy principles.

Hands-On Environmental Measurement & 'Envirometrics'

UTAS introduces students to real-world environmental data collection and analysis through the innovative 'Envirometrics' approach, combining field techniques with advanced analytical methods to measure, monitor, and model key environmental indicators across Oman's diverse ecosystems.

Comprehensive SDG Curriculum Directory

The following matrix outlines key sustainability-integrated courses across Engineering, Science, and Business departments. This comprehensive mapping ensures every UTAS graduate is exposed to the principles of the green economy.

College of Engineering and Technology

Course Code	Course Name	Primary SDG Alignments
EGRE1230 / EERE2201	Introduction to Renewable Energy	SDG 7, 13, 9, 4, 6
EGCV3230 / CECE3200	Environmental Engineering	SDG 6, 3, 11, 12, 13, 9, 14
EGHS1140	Health, Safety and Environment	SDG 3, 8, 12, 9, 11, 13
EGCV4264	Solid Waste Management	SDG 3, 6, 12, 11, 13, 7, 14, 15
EGQS4261	Sustainability in the Built Environment	SDG 11, 12, 13, 6, 7, 15
EGETS5110	Climate Change and Energy Transition	SDG 12, 13, 9, 7, 11, 8

EGETS5120	Economics and Regs of Sustainable Energy	SDG 7, 13, 8, 9, 12
EGETS5130	Renewable Energy Technologies	SDG 7, 13, 9, 11, 12
EGETS5140	Carbon Management and Life Cycle Assessment	SDG 7, 13, 12, 9, 17
EGETS5220	Hydrogen Energy Systems	SDG 7, 13, 9, 8, 12
EGETS5230	Circular Economy and Waste to Energy	SDG 7, 13, 12, 8, 9, 11
EGETS5241	Energy Data Analytics and Modeling	SDG 7, 13, 9, 11, 12
EGETS5242	Carbon Capture, Utilisation and Storage	SDG 7, 13, 9, 8, 12
EGETS5243	Microbial Energy Conversion Technology	SDG 7, 13, 12, 9
EGETS5251	Advanced Solar and Wind Energy Systems	SDG 7, 13, 9, 8, 11
EGETS5252	Advanced Building Energy Efficiency	SDG 7, 13, 11, 9, 12
EGETS5253	Advanced Materials for Clean Energy	SDG 7, 9, 12, 13
EGCO4220	Artificial Intelligence	SDG 9
EGEL3261	Energy Management and Audit	SDG 7, 12, 13

College of Applied Sciences and Pharmacy

Course Code	Course Name	Primary SDG Alignments
ASES4102	Aquatic Environment	SDG 14, 6, 15
ASES3205	Atmospheric Sciences	SDG 13, 3, 11, 12
ASES3101	Biodiversity and Nature Conservation	SDG 13, 15, 12
ASES4207	Disaster Management	SDG 13, 11, 3, 17
ASES2105	Ecology	SDG 15, 14, 13, 12
ASES3208	Ecotourism Management	SDG 15, 8, 11, 12
ASES4208	Environmental Education and Advocacy	SDG 4, 13, 17, 12
ASES4206	Environmental Impact Assessment	SDG 12, 13, 15, 16
ASES4103	Environmental Monitoring	SDG 6, 15, 12, 13
ASES3206	Environmental Policy	SDG 16, 12, 17, 13
ASES2209	Env Sciences Field Techniques Laboratory	SDG 15, 6, 14, 13
ASES3102	Environmental Toxicology	SDG 3, 12, 15, 6
ASES1205	Fundamentals of Environmental Sciences	SDG 13, 12, 15, 6
ASFB1101	Fundamentals of Biology	SDG 3, 15, 2, 4
ASFC1102	Fundamentals of Chemistry	SDG 4, 12, 6
ASES3207	Geographic Information System (GIS)	SDG 11, 15, 13
ASES2106	Geology	SDG 6, 15, 13, 11
ASES2103	Health, Safety and Environment	SDG 3, 8, 12, 13

ASAB2208	Introduction to Microbiology	SDG 3, 6, 4
ASRE1207	Introduction to Renewable Energy	SDG 7, 13, 9, 8
ASLS1104	Laboratory Safety & Management	SDG 3, 12, 4
ASQA3104	Quality Assurance and Quality Control	SDG 12, 9, 8
ASES4205	Remote Sensing	SDG 15, 13, 11
ASES2102	Soil Science	SDG 15, 2, 6
ASES3103	Solid Waste Management	SDG 12, 11, 13, 6
ASES4101	Wastewater Management	SDG 12, 6, 11, 13
ASAC3208	Green Chemistry	SDG 12, 7, 13
ASAB3208	Nutrition and Health	SDG 3, 2, 12
ASAB3209	Marine Biology	SDG 14, 13, 15, 2
ASAB4104	Pollution and Toxicology	SDG 3, 12, 6, 13
ASAC4103	Polymer Science and Nanotechnology	SDG 9, 12, 7, 4
ASAB2104	Plant Science	SDG 15, 2, 13
ASAB3101	Applied Ecology	SDG 13, 15, 12
ASAB4102	Food Security and Processing Technology	SDG 2, 12, 3
ASAB4206	Plant Biotechnology and Pathology	SDG 2, 15, 9
ASAC2205	Industrial Chemistry	SDG 9, 12
ASFS5101	Introduction to Food Security	SDG 2, 12, 13
ASFS5102	Sustainable Agriculture and Challenges	SDG 2, 12, 13
ASFS5203	Artificial Intelligence in Food Security	SDG 2, 9, 13

College of Economic and Business Administration

Course Code	Course Name	Primary SDG Alignments
BSSL2101	Logistics & Expediting	SDG 9
BSSL2207	Transportation and Distribution	SDG 9
BSSL4101	Maritime, Shipping and Freight Forwarding	SDG 9
BSSL4103	Supply Chain Design, Simulation and Opt.	SDG 9
BSSL4208	Supply Chain Performance Management	SDG 9

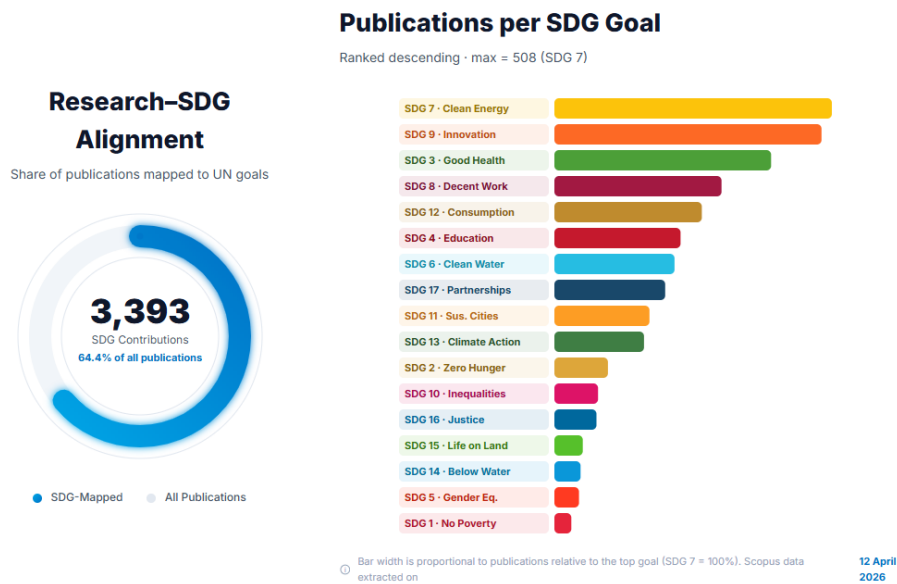
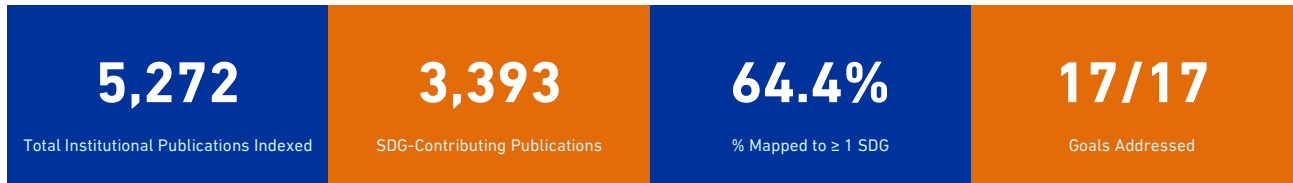
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RESEARCH EXCELLENCE, INNOVATION & EMERGING TECH

[SDG 3, 6, 7, 9, 13]

UTAS By The Numbers: Elsevier Scopus Research Impact Dashboard

UTAS is driving global academic excellence. Data extracted from the Elsevier Scopus ML Classification (April 2026) showcases our profound global footprint across all 17 UN Sustainable Development Goals.



Top 10 SDG Research Output Areas

SDG	Goal Name	Publications
SDG 7	Affordable and Clean Energy	508
SDG 9	Industry, Innovation & Infrastructure	489
SDG 3	Good Health and Well-being	397
SDG 8	Decent Work and Economic Growth	306
SDG 12	Responsible Consumption & Production	270
SDG 4	Quality Education	231
SDG 6	Clean Water and Sanitation	220
SDG 17	Partnerships for the Goals	203
SDG 11	Sustainable Cities and Communities	174
SDG 13	Climate Action	164

Strategic Research Groups: Green Hydrogen & Waste Innovation

Our 508 publications in Clean Energy are spearheaded by teams like the Renewable Energy and Green Hydrogen Research Group (Muscat). Comprising 25 multidisciplinary members, this group has achieved 14 high-impact papers and registered 3 international patents in the UK and India.



MoHERI-Funded Breakthroughs: Microplastics & Biomedical Research

Backed by our 397 publications in Good Health (SDG 3), UTAS-Sur hosted a critical laboratory workshop on 'Innovative Techniques in PBMC-Based Fluorescence Microscopy and Microplastic Detection.' Sponsored by MoHERI, this trained 37 specialists from Omani hospitals, directly supporting national public health and water quality preservation.

Global Platforms: Hosting International Conferences

EESD 2026 (Sohar): Hosted the 3rd International Conference on Environmental Sciences and Engineering for Sustainable Development, drawing 76 research papers from 13 countries.



Waste Management & The Circular Shift

UTAS is leading the transition from linear waste generation to a circular economy. UTAS-Muscat hosted the highly successful 'From Bins to Business: The Circular Shift' symposium, educating staff and students on the transformative business opportunities hidden within waste innovation. Environmental Science students also conducted field visits to the Al Amerat Landfill to observe real-world solid waste management.

Eco-Friendly Campus Upcycling: Palm Frond Paper & Recycled Art

UTAS-Rustaq serves as a creative hub for the circular economy. The campus organised hands-on workshops on making paper from palm fronds, utilising local natural resources to reduce waste. Furthermore, the campus Languages Club hosted a Gallery Walk Exhibition showcasing student artwork produced entirely from recycled materials.



Smart Water Management & Landfill Field Studies

Supported by 220 research publications in Clean Water and Sanitation (SDG 6). Also, UTAS-Nizwa hosted an international webinar on 'Smart Water Quality Management Using IoT and AI Technologies.' Additionally, UTAS-Muscat collaborated with Nama Water Services for a major event exploring Oman's water treatment technologies and decarbonisation pathways.

220

SDG 6 Publications (Clean Water & Sanitation)

Protecting Oman's Coastlines & Dunes

UTAS students are frontline defenders of Oman's unique ecosystems:

- **Dhofar Coastlines:** The UTAS-Salalah 'Friends of the Environment' partnered with the Dhofar Cleanup Patrol for the 'Our Environment is Our Responsibility' campaign, executing major cleanups at Mirbat, Hasik (a marine turtle breeding site), and Aftlaqt beaches.
- **Bousher Sand Dunes:** The UTAS-Muscat Business Student Club organised a massive outdoor clean-up campaign, mobilising over 80% of its members to preserve this iconic natural space.



Climate-Adaptive Landscapes & The 'Green Campus' Initiative

- **Strategic Tree Planting (Nizwa):** UTAS developed a proposal to plant scientifically selected, drought-tolerant native trees—such as Ghaf, Sidr, and Neem—across the campus to enhance shade cover, reduce heat, and boost biodiversity.

- **Campus Greening (Al Musana):** Installing water-efficient irrigation and planting native flora to turn the campus into a living laboratory of climate-adaptive design.

Community Agriculture & Education

- **"Tender Seeds" Campaign (Nizwa):** A university-wide seed donation drive to promote food self-sufficiency, urban gardening, and sustainable agriculture across Nizwa and surrounding communities.
- **Bani Omar School Outreach:** The UTAS-Sohar Engineering Department opened its advanced chemistry labs to local school students to conduct oil extraction and diesel combustion experiments, inspiring the next generation of scientists.

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STRATEGIC PARTNERSHIPS & GLOBAL LEADERSHIP

[SDG 17]

With 203 research documents dedicated to Partnerships for the Goals (SDG 17), UTAS leverages multi-sectoral alliances across government, industry, media, and civil society to achieve its sustainability targets.

203

SDG 17 Publications – Partnerships for the Goals

Government Alliances: Oman Environment Authority (OEA) & Regional Municipalities

UTAS operates in lockstep with national policymakers. In 2026, the Oman Environment Authority officially requested UTAS-Nizwa to nominate students to serve on the prestigious National Environmental Student Council. Furthermore, the OEA formally invited UTAS to co-organise the 2025 National Seminar on 'Sustainability and Innovation in Environment and Society.'

Industry & Media Collaborations

- **Corporate Forums (Sohar):** UTAS-Sohar hosted a two-day Industry-Academic Forum on 'Emerging Technologies for Green Economy,' featuring industry leaders from Vale, Oman Aluminium Rolling Company, and Oman Cables.
- **Nama Water Services:** Collaboration with Nama Water Services exploring Oman's water treatment technologies and decarbonisation pathways.

- **Be'ah (National Waste Management):** Partnership supporting national waste management and circular economy initiatives aligned with Oman's Vision 2040 environmental targets.

National Competitions: Driving the 'Green Campus' Movement

UTAS is an active competitor and leader in the National 'Green Campus' Competition, organised by the Environment Society of Oman (ESO) and the Ministry of Higher Education. UTAS teams are implementing real-world solutions across energy efficiency, water conservation, and carbon offsetting, proving that the university is a vital incubator for Oman's sustainable future.