

Template for Evidence(s)
QS

2025

University : Al-Furat Al-Awsat Technical University
Country : Iraq - Najaf Ashraf - Kufa

Web Address : <http://en.atu.edu.iq/>

Document	Title:
Environmental changes work shop and courses – Al-Furat Al-Awsat Technical University (ATU)	
Prepared	for: QS Sustainability Rankings
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In line with the commitment of Al-Furat Al-Awsat Technical University (ATU) to sustainable development and climate action, this training programme has been designed to build capacity among **academic staff, administrative personnel and students**. The programme directly supports the **Sustainable Development Goals (SDGs)**, especially SDG 4 (Quality Education), SDG 7 (Affordable and Clean Energy), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production) and SDG 13 (Climate Action).

The initiative includes **10 professional workshops** covering key sustainability themes: carbon footprint measurement, renewable energy, climate-smart agriculture, circular economy, green skills, and sustainable pedagogy.

No.	Workshop Title	Target Audience	Duration (hours)
1	Carbon Footprint Measurement & GHG Protocol Fundamentals	Staff & Students	12
2	Green Engineering: Low-Carbon Design & Renewable Energy	Staff & Students	16
3	Climate Change & Public Health: Impacts & Adaptation	Staff & Students	8
4	Climate-Smart Agriculture & Water Resources Management	Staff & Students	8
5	Circular Economy & Waste-to-Resource Technologies	Staff & Students	8
6	Green Skills for Employment in a Sustainable Economy	Students	6
7	Integrating Sustainability into Curricula (for Academic Staff)	Staff	12
8	Sustainable Transport & Low-Carbon Mobility	Staff & Students	6
9	Green Finance & Sustainable Business Models	Staff & Students	8
10	Annual Sustainability Symposium – Climate Change in Iraq	Staff & Students	8



Al-Samawah Technical Institute)

"Climate-Smart Agriculture and Sustainable Water Management in Arid Environments"



College of Health and Medical Techniques – Kufa)"

"Climate Change and Public Health: Building Resilient Healthcare Systems"

3. Programme Objectives

- Enable participants to measure their own carbon footprint and identify reduction opportunities.
- Promote energy efficiency and the use of solar, wind and biomass technologies.
- Develop adaptation strategies for water scarcity and drought in arid regions.
- Apply circular economy principles to reduce waste and promote resource efficiency.
- Equip students with **green skills** demanded by the future labour market.
- Empower academic staff to embed sustainability concepts into their teaching.

4. Training & Assessment Methodology

Each workshop follows an interactive, practice-oriented approach:

- **Interactive lectures** with case studies from the Iraqi context.
- **Hands-on exercises** (e.g., calculating the carbon footprint of a campus building).
- **Group projects** for longer workshops (12–16 hours).
- **Pre- and post-training tests** to measure knowledge improvement.
- **Certificate of completion** issued by ATU for $\geq 80\%$ attendance.

5. Estimated Training Volume & Participants

Audience	No. of Workshops	Total Training Hours (institution-wide)	Estimated Participants
Academic Staff	3	36	90
Students	2	14	100
Mixed (Staff & Students)	5	48	200
Total	10	98 hours	390 participants

6. Implementation Phases

Phase	Main Activity
1	Scheduling workshops and identifying internal trainers
2	Opening registration for participants
3	Delivering workshops in central training halls
4	Conducting assessments and issuing certificates
5	Following up on final projects and outcomes

7. Expected Outcomes (Contributing to Sustainable Development)

- At least **three carbon footprint reports** for individual university departments.
- **Preliminary designs** for small-scale solar PV projects on campus.
- Student-led **waste separation and recycling initiatives**.
- **Updated course syllabi** incorporating sustainability modules (by participating staff).
- A **measurable 40% increase** in climate literacy (pre-/post-test results).

8. Conclusion

This short yet comprehensive training programme represents a concrete step towards embedding **sustainable development** into the daily life of ATU. By offering 10 targeted workshops on climate change, low-carbon technologies, green skills and circular economy, the university prepares its staff and students to become active agents of change.