



## Template for Evidence(s) UI GreenMetric Questionnaire

University : Samarra  
 Country : Iraq  
 Web Address : [www.uosamarra.edu](http://www.uosamarra.edu)

### [6] Education and Research (ED)

#### [6.1] Number of Courses/Subjects Related to Sustainability Offered

SAMPLE

Faculty / Department	Course Title	Notes & Sustainability Integration
Agriculture	Sustainable Agriculture	The core curriculum focusing on soil health, biological pest control, and biodiversity conservation.
Agriculture	Aquaponics & Hydroponics Systems	An applied subject focused on food and fish production using closed-loop systems that save 90% of water.
Agriculture	Water Resources Management & Harvesting	Studies modern irrigation techniques to combat water scarcity and climate change impacts in Iraq.
Applied Sciences	Environmental Biotechnology	Focuses on "Bioremediation" using microorganisms to clean up oil and industrial pollutants.
Applied Sciences	Green Chemistry	A curriculum aimed at reducing toxic chemical emissions during laboratory experiments and adopting eco-friendly reagents.
Applied Sciences	Renewable Energy Physics	Specialized study of Photovoltaic (PV) cells and improving the efficiency of solar energy conversion.
Engineering	Energy Efficiency Policies in Construction	An officially mandated course for Architectural Engineering focusing on climate-responsive design and reducing thermal waste.
Engineering	Green Architecture (Graduation Projects)	Yearly capstone projects centered on designing sustainable cities and buildings that rely entirely on natural resources.
Education (Pure Sci)	Soil and Water Pollution & Treatment	Analytical studies in the Biology Department aimed at finding technical and sustainable solutions for local environmental issues.
Education (Pure Sci)	Ecology and Biodiversity	A course focused on protecting indigenous plant and animal species as part of environmental sustainability.
Geography	Sustainable Agricultural Development	A specialized course for postgraduate students (MA/PhD) linking spatial planning with sustainable food security.
Education	Sustainability & Digital Transformation	An educational course aimed at digitizing learning to reduce the consumption of paper and energy within the institution.



Arts (Media)	Green Media (Environmental Journalism)	Academic activities for media students on crafting impactful awareness campaigns for sustainability issues.
Physical Education	Physical Health & Sustainability	Connects athletic activity with environmental preservation (e.g., eco-friendly outdoor sports and healthy lifestyles).
Law / Education	Human Rights & Environmental Citizenship	Integrates the "Right to a Clean Environment" as a fundamental human right within general university requirements.
University Requirement	Professional Ethics & Social Responsibility	A general course for all students, updated to include individual responsibility toward societal and environmental sustainability.

### University of Samarra: Curriculum Greening Progress Report

Faculty / Academic Sector	Total Courses Offered	Sustainability-Embedded Courses	Integration Percentage (%)
Faculty of Agriculture	120	15	12.5%
Faculty of Applied Sciences	149	27	18.1%
Faculty of Engineering	80	10	12.5%
Faculty of Education (Pure Sci)	70	10	14.3%
Postgraduate Studies (Edu/Geo)	90	25	27.8%
Faculty of Arts & Humanities	60	14	23.3%
Physical Education & Other Depts	50	12	24.0%
Grand Total	619	113	18.25%

#### Description:

The table above illustrates the academic courses that have undergone updates as part of the "**University of Samarra Curriculum Greening Strategy.**" This initiative aims to embed sustainability, environmental ethics, and social responsibility into the core content of all academic departments.

These courses are not limited to purely scientific disciplines like Engineering and Agriculture; they extend to Humanities and Educational sciences to ensure a comprehensive environmental consciousness. The curriculum also features applied subjects that provide students with practical skills in renewable energy, modern irrigation technologies, and sustainable digital transformation, ensuring that sustainability is an integral part of our graduates' professional practice.

- **Total number of sustainability-embedded courses (2024-2026):** Over 50 academic activities and subjects distributed across various faculties

**Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):**

[Officially the University of Samarra in Green Metrics - University of Samarra](#)

[The University of Samarra - College of Applied Sciences installs an integrated solar energy system - University of Samarra](#)