

Al-Ahliyya Amman University



Sustainability Report 2024

English Version





Index

No.	SDG Name	Page
1.	No Poverty	6
2.	Zero Hunger	10
3.	Good Health and Well-being	14
4.	Quality Education	18
5.	Gender Equality	22
6.	Clean Water and Sanitation	26
7.	Affordable and Clean Energy	30
8.	Decent Work and Economic Growth	34
9.	Industry, Innovation and Infrastructure	38
10.	Reduced Inequalities	43
11.	Sustainable Cities and Communities	47
12.	Responsible Consumption and Production	51
13.	Climate Action	55
14.	Life Below Water	57
15.	Life On Land	61
16.	Peace, Justice and Strong Institutions	65
17.	Partnerships for the Goals	69





Prof. Sari Hamdan
President -AAU

The 2030 Agenda for Sustainable Development and the 17 Sustainable Development Goals (SDGs) were adopted by all UN member states in 2015 and set out an ambitious plan for ending poverty, fighting inequality, and building peaceful, just, and sustainable societies by 2030. Achieving the SDGs will require the concerted efforts of all members of society. Prof. Sari Hamdan President AAU

Universities are particularly well-placed to contribute to creating a sustainable future through their research and teaching activities. Universities at the forefront of research generate new knowledge and innovations that provide solutions to the interconnected social, economic, and environmental challenges captured in the SDGs. As educators, universities equip students with the knowledge and skills that enable them to contribute to creating a sustainable future. Of course, the role of universities in sustainable development extends beyond their role in research and teaching. Institutions also contribute to the SDGs through their policies and practice, and increasingly institutions everywhere are working hard to ensure continuous improvement and lead by example. At Al-Ahliyya Amman University (AAU), we recognize and embrace our responsibility to transition to a sustainable future. We are committed to ensuring that our activities, be they research, teaching, community service or operations, advance us to a better place for humanity and the planet. In this report, we outline some of the many activities in our University that contribute to achieving the SDGs. We cannot capture all the fantastic work of our staff and students across research, teaching, engagement/outreach and operations. However, the selection presented here shows an appreciation of the activities happening within our university that are setting us on a path to a more sustainable future for all.



President

Sari Hamdan

Prof. Sari A. Hamdan

president@ammanu.edu.jo

Institutional Achievements and Global Recognition

AAU has been ranked **#1** in the Times Higher Education (THE) Impact Rankings 2024 among Jordanian universities for the fourth consecutive year, excelling in SDG 3 (Good Health), SDG 4 (Quality Education), SDG 11 (Sustainable Cities), and SDG 17 (Partnerships for the Goals). It also secured a spot in the QS World University Rankings 2025 (801–850 band), showcasing excellence in teaching, employability, and environmental impact. These accolades affirm AAU's leadership in sustainability and global engagement.

Better together.....





EXECUTIVE SUMMARY

AAU has demonstrated its steadfast commitment to sustainability and the United Nations' Sustainable Development Goals (SDGs). This report highlights the university's transformative efforts across 17 SDGs, showcasing impactful programs, innovative research, and strategic partnerships. Key achievements include maintaining the top rank among Jordanian universities in the Times Higher Education Impact Rankings, advancing quality education, fostering sustainable cities, and leading initiatives in affordable energy and climate action.

AAU's holistic approach integrates education, research, and community engagement to drive environmental stewardship, economic growth, and social equity. With progressive policies in gender equality, reduced inequalities, and clean water management, AAU is setting benchmarks in ethical sourcing, waste management, and carbon neutrality. The university's partnerships with local and global institutions further amplify its impact, fostering a collaborative spirit for sustainable development. This report underscores AAU's vision of creating a better future by aligning institutional excellence with sustainability imperatives. The outlined initiatives and KPIs reaffirm the university's leadership in sustainability, inspiring a path toward innovation.

Better together.....





1 NO POVERTY





1. No Poverty

1.1. Equitable Access and Admissions

(Social Admissions, Financial Need Assessment, Financial Waiver)

The university is dedicated to advancing "No Poverty" through equitable access to education by prioritizing support for low-income and first-generation students. This commitment includes implementing transparent admissions processes, assessing financial need, and offering financial waivers and scholarships to reduce barriers for economically disadvantaged students. By providing these resources, alongside academic and advisory support, the university ensures that students from all backgrounds have equal educational opportunities, empowering them to succeed academically and contribute meaningfully to society. Through these inclusive policies, the university fosters a learning environment where every student, regardless of financial status, has a fair chance to thrive.

1.2. Low-Income Student Support

(Affordable Housing, Meal Subsidy, Transportation Assistance, Healthcare Support)

The university is dedicated to fostering academic success and continuity for low-income students by providing a supportive educational environment that addresses both financial and non-financial needs. This support encompasses affordable housing, meal subsidies, transportation assistance, and healthcare services, ensuring that essential resources are accessible to students in need. Through these efforts, the university creates an inclusive setting that reduces financial burdens related to living and education costs, empowering low-income students to focus on their studies and thrive academically.

1.3. Scholarship and Financial Aid

(Scholarship Allocation, Low-Interest Loan, Financial Aid)

The university is committed to promoting equitable access to education by providing scholarships and financial aid that reduce financial burdens for low-income students, supporting their academic continuity and success. This approach includes offering scholarships and low-interest loans to ease students' financial pressures, enabling low-income students to continue their education and ensuring equity and inclusivity in the distribution of financial support. Through these efforts, the university fosters an inclusive academic environment where financial challenges do not hinder students' ability to achieve their educational goals.

1.4. Graduation and Retention

(Academic Mentorship, Academic Support, Psychological and Social Support)

The university is dedicated to improving graduation and retention rates by fostering a supportive educational environment, particularly for low-income students. This commitment includes providing academic and professional mentorship, as well as psychological and social support, to ensure students' academic continuity and success. Through mentorship programs, ongoing assistance, and well-being initiatives, the university aims to enhance students' performance, well-being, and overall academic success, empowering them to complete their education and achieve their goals.



1.5. Social and Economic Empowerment

(Entrepreneurship Training, Microloan, On-Campus Employment, Community Empowerment)

The university is committed to advancing the social and economic empowerment of students and the local community by providing entrepreneurship training, supporting small projects, creating on-campus employment opportunities, and building local capacities for sustainable development. Through programs that cultivate entrepreneurship skills, foster innovative thinking, and offer microfinancing for small projects, the university empowers students and community members to strengthen their economic capabilities. These initiatives support both students and the surrounding community in achieving sustainable growth and self-sufficiency.

1.6. International Cooperation to Support Students from Low-Income Countries

(Scholarship Allocation for International Students from Low-Income Countries, Collaboration with International and Local Institutions for Low-Income Student Support)

The university is committed to supporting international students from low-income countries by providing scholarships and fostering partnerships with international and local institutions, ensuring greater access to higher education and enhancing their ability to impact their communities positively. By offering comprehensive scholarships and strengthening collaborative networks, the university enables students from developing countries to pursue higher education and contribute to sustainable development in their home communities. Through these initiatives, the university empowers students from low-income countries to become agents of change and development.

1.7. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Low-Income Admissions Rate	85%	87%	90%
2.	Affordable Housing Beneficiaries	86%	88%	91%
3.	Scholarship Recipients	91%	93%	96%
4.	Low-Income Graduation Rate	92%	94%	97%
5.	Entrepreneurship Trainees	86%	88%	91%
6.	Low-Income Intl. Scholars	93%	95%	98%

1.8. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Workshop on Women's Health / Women's Health Center	GO
2.	AAU Organizes a Volunteering Campaign to Support the Charitable Clothing Bank	GO
3.	Clinical Psychology Students Visit SOS Children's Village	GO
4.	Free medical day in partnership with the Specialized Eye Hospital and Advanced Surgeries	GO
5.	The Department of Optometry at Al-Ahliyya Amman University distributes reading devices to the blind	GO
6.	In Collaboration with Vienna Healthcare Group: AAU Launches Employment Program for Jordanian Nursing Graduates in Austria	GO



Sustainability Report 2024

7.	AAU Organizes Awareness Lecture on the Scourge of Drugs as Part of Student Awareness Week Activities	GO
8.	Career Day at AAU for Major Local and International Companies	GO

1.9. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Islamic Finance In The Era Of Financial Technology: A Bibliometric Review Of Future Trends	GO
2.	Antecedents Of Business Analytics Adoption And Impacts On Banks' Performance: The Perspective Of The Toe Framework And Resource-Based View	GO
3.	Differences In Overall Survival Between Clear Cell Metastatic Renal Cell Carcinoma Patients Versus Population-Based Controls According To Race/Ethnicity In The United States	GO
4.	Survival Of Stage III Non-Seminoma Testis Cancer Patients Versus Simulated Controls, According To Race/Ethnicity	GO
5.	Effect Of Race/Ethnicity On Survival In Surgically Treated Intermediate/High Risk Non-Metastatic Clear Cell Renal Carcinoma	GO

1.10. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Arab Agriculture Forum	GO
2..	Roya Academy for Media Training (Cooperation Agreement for Accredited Courses and Diplomas)	GO
3.	Four Seasons Hotel (Training Agreement)	GO
4.	Jordan Ahli Bank (MoU)	GO
5.	Al-Hussein Technical University (MoU)	GO



2 ZERO HUNGER





2. Zero Hunger

2.1. Campus Food Waste Management

(Food Waste Measurement)

The University is actively working to create a sustainable campus by accurately measuring and reducing food waste. Through structured waste measurement, we track waste volumes to guide data-driven reductions and minimize landfill contributions. To increase awareness, we engage students and staff on the importance of food waste management, and our partnerships with local organizations transform waste into compost and other sustainable resources. Recent efforts include expanding data collection accuracy, offering workshops on waste reduction, and fostering community collaborations, all reinforcing our commitment to an environmentally responsible campus.

2.2. Student Hunger Alleviation

(Sustainable Food Provision)

The University is dedicated to supporting students' well-being and academic success by addressing food insecurity through sustainable food programs. These initiatives provide affordable, nutritious food options, helping to alleviate hunger on campus. Aiming to reduce student food insecurity, the University ensures access to healthy meals and actively promotes awareness of nutritional health. By encouraging students to adopt sustainable, healthy eating habits, these programs contribute to a supportive campus environment where students can thrive academically and personally.

2.3. Sustainability Graduate Enhancement - Agriculture and Aquaculture

(Graduate Tracking in Agriculture and Aquaculture)

The University is advancing sustainability in agriculture and aquaculture by enhancing educational pathways that equip graduates with critical skills in sustainable development. Aligned with global standards, these initiatives focus on preparing students to effectively apply sustainability principles within their fields. Recent developments include the creation of academic programs tailored to sustainable applications in agriculture and aquaculture, along with specialized workshops and training sessions for students and faculty. Additionally, partnerships with local and international institutions strengthen our research and training capabilities, supporting a future-ready workforce committed to sustainable development in these essential sectors.

2.4. Contribution to National Food Security and Sustainable Agriculture

(Farmer Engagement and Support, University Facilities Access Procedure Sustainable Purchasing)

The University actively contributes to national food security and sustainable agriculture by supporting local farmers and promoting environmentally responsible practices. Through strengthened collaborations with local organizations, we facilitate agricultural events and offer farmers access to our facilities, empowering them with resources and knowledge. Recent initiatives include updating sustainable purchasing standards to prioritize local products, reducing environmental impact while supporting regional production. Additionally, training programs are designed to equip farmers with sustainable agricultural technologies, enhancing both their productivity and commitment to sustainable practices, aligning with national food security goals.



2.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Food Waste Total	91%	93%	96%
2.	Hunger Program Beneficiaries	87%	89%	92%
3.	Agriculture & Aquaculture Graduates	83%	85%	88%
4.	Farmer Events Organized	86%	88%	91%
5.	Farmers Using Facilities	88%	90%	93%
6.	Local Sustainable Purchases	89%	91%	94%

2.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Career Day at AAU for Major Local and International Companies	GO
2.	Workshop on Women's Health / Women's Health Center	GO
3.	The Faculty of Agricultural Technology Participates in Petra Livestock Exhibition and Conference	GO
4.	Field Training for AAU Agricultural Technology Students on Plant Tissue Culture Techniques	GO
5.	The Faculty of Agricultural Technology Participates in the Regional Conference of the Food and Agriculture Organization for the Near East	GO
6.	AAU's Faculty of Agricultural Technology Celebrates World and National Olive Day	GO
7.	Al-Ahliyya Amman University of Agricultural Technology Participates in Agricultural Sector Leadership Training Course"	GO
8.	Participation of Dr. Reda Shibli, the Dean of the Faculty of Agricultural Technology at Amman University, in the Smart Food Conference:	GO

2.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Exploring the Nexus between Fintech, natural resources, urbanization, and environment sustainability in China: A QARDL study	GO
2.	Revolutionizing crop disease detection with computational deep learning: a comprehensive review	GO
3.	Assessment of Advanced Machine and Deep Learning Approaches for Predicting CO2 Emissions from Agricultural Lands: Insights Across Diverse Agroclimatic Zones	GO
4.	CNNs in Crop Care: A Comparative Analysis of Tomato Disease Detection Models	GO
5.	Silver Nanoparticles and Biostimulants Affect Chemical Constituents, Total Phenolics, Antioxidants, and Potential Antimicrobial Activities of Santolina chamaecyparissus	GO
6.	Wheat crop genotype and age prediction using machine learning with multispectral radiometer sensor data	GO
7.	Evaluating machine learning performance in predicting sodium adsorption ratio for sustainable soil-water management in the eastern Mediterranean	GO
8.	Enhanced climate change resilience on wheat anther morphology using optimized deep learning techniques	GO



Sustainability Report 2024

9.	Regional classification of extreme droughts across Iran	GO
10.	Integrating Maize Yield and Agricultural Drought Analysis for Sustainable Food Security: A Provincial Study in South Africa (1993–2022)	GO

2.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Arab Agriculture Forum	GO
2.	Global Company Nunhems O-BASF	GO
3.	A Memorandum of Understanding between our University and the National Agricultural Research Center	GO
4.	Al-Balqa Applied University	GO
5.	Agricultural Technology in Ahliyya Amman University signs 4 MoUs with major agricultural companies	GO



3 GOOD HEALTH AND WELL-BEING





3. Good Health and Well-being

3.1. Sustainability Graduate Enhancement - Health Professions.

(Graduate Tracking in Health Professions)

The University is dedicated to preparing graduates in health professions to practice with a strong foundation in sustainability, integrating environmentally and socially responsible principles into their education. By expanding health curricula to include sustainability topics, we ensure that students understand the importance of sustainable practices in healthcare. Practical training and workshops further enhance students' awareness, equipping them to contribute positively to sustainable health initiatives in their future careers. Collaborations with health institutions provide specialized training opportunities, reinforcing our commitment to producing skilled graduates ready to advance sustainable health practices.

3.2. Sustainable Health Services Delivery

(Sexual and Reproductive Health Services, Sexual Health Education, Health Education, Student Mental Health Counseling, Staff Mental Health Support, Providing various health services to the university community)

The University is dedicated to delivering sustainable and inclusive health services that support the well-being of students and staff across various aspects of health. Comprehensive services include mental health counseling, sexual and reproductive health, and general health education to foster a healthy campus environment. Through collaborations with health organizations, we continually improve service quality, and our health awareness programs cover essential topics like mental health and stress management. Additionally, the University has allocated further resources to mental health support, ensuring accessible psychological care that enhances both academic and work life within the community.

3.3 Health Collaboration

(Health Collaborations, Health Sustainability Internship Program, Community Health Outreach, Sports Facilities Access, Postgraduate Scholarship - Health Specialties)

The University is committed to advancing public health and well-being by strengthening partnerships with local and international health institutions. Through these collaborations, we aim to create sustainable opportunities for knowledge exchange and to provide comprehensive, integrated health services that benefit both the university and the broader community. Key initiatives include expanding health collaboration agreements with leading institutions to support both university services and community health, developing an evaluation program for sustainable health internships, and enhancing local health awareness programs with a focus on community sports. Additionally, the University offers postgraduate scholarships in health specialties to cultivate expertise in sustainable health practices, fostering a future-ready, health-conscious community.

3.4. Smoke-Free

(Smoke-Free Policy Implementation)

The University is dedicated to maintaining a smoke-free, health-promoting environment to safeguard the well-being of students, staff, and visitors. Enforcing a strict smoke-free policy across all buildings and open spaces, the University fosters a safe and comfortable campus atmosphere. Key initiatives include continuous awareness campaigns on the dangers of



Sustainability Report 2024

smoking and the benefits of a smoke-free environment, alongside counseling programs to support those interested in quitting smoking. To ensure compliance, an effective system for recording and addressing policy violations has been established, reinforcing the University's commitment to a healthier, smoke-free campus.

3.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1	Health Professions Graduates	93%	95%	98%
2	Health Education Participants	89%	91%	94%
3	Sustainable Health Beneficiaries	91%	93%	96%
4	Health Cooperation Agreements	92%	94%	97%
5	Healthcare Outreach Programs	89%	91%	94%
6	Smoke-Free Policy Compliance	93%	95%	98%

3.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	AAU Health Training Center Concludes Basic Life Support Course	GO
2.	The Women's Health Center holds a workshop entitled Drugs and their effects on the health of women and children	GO
3.	AAU Participates in the First National Conference on Pharmaceutical Security	GO
4.	Workshop on Women's Health / Women's Health Center	GO
5.	Women's Health Center Organizes Awareness Event in Deir Alla	GO
6.	Community awareness day to promote health	GO
7.	Supporting the students of the Faculty of Pharmacy at Amman Ahliyya University to participate in the training program "Biodiversity for Sustainable Health" provided by the Italian University G. d'Annunzio Chieti and Pescara	GO
8.	ECG Course	GO

3.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	The Efficacy and Safety of Metastasis-directed Therapy in Patients with Prostate Cancer: A Systematic Review and Meta-analysis of Prospective Studies	GO
2.	Comparing the Performance of Digital Rectal Examination and Prostate-specific Antigen as a Screening Test for Prostate Cancer: A Systematic Review and Meta-analysis	GO
3.	Repeat Transurethral Resection for Non-muscle-invasive Bladder Cancer: An Updated Systematic Review and Meta-analysis in the Contemporary Era	GO
4.	Targeting Hypoxia-Inducible Factor-1 (HIF-1) in Cancer: Emerging Therapeutic Strategies and Pathway Regulation	GO
5.	Auto-detection of the coronavirus disease by using deep convolutional neural networks and X-ray photographs	GO
6.	Magnetic Resonance Imaging in Prostate Cancer Screening: A Systematic Review and Meta-Analysis	GO
7.	Characteristics of incidental prostate cancer in the United States	GO



Sustainability Report 2024

8.	Trimodal therapy effect on survival in urothelial vs non-urothelial bladder cancer	GO
9.	Multi-objective liver cancer algorithm: A novel algorithm for solving engineering design problems	GO
10.	SARS-CoV-2 journey: from alpha variant to omicron and its sub-variants	GO

3.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Istishari Hospital	GO
2.	JOEWS Medical	GO
3.	An-Najah National University	GO
4.	Ministry of Health	GO
5.	Royal Health Awareness Society	GO



4 QUALITY EDUCATION





4. Quality Education

4.1. Teaching Qualification Enhancement.

(Teaching Certification Program Delivery)

The University is dedicated to improving the teaching qualifications of faculty members and graduates through specialized certification programs and accredited qualifications that enhance teaching skills and align with higher education standards. These programs, which combine practical and theoretical training, aim to ensure high-quality education and boost the effectiveness of the educational process. Recent initiatives include implementing robust evaluation mechanisms to assess the impact of these certifications on teaching performance, as well as strengthening partnerships with international accreditation bodies to expand the availability of recognized certifications. Through these efforts, the University promotes professional growth and excellence in teaching.

4.2. Free Access to Educational Resources

(Free Library and Educational Resources Access)

The University is dedicated to ensuring equal learning opportunities by providing free access to a wide range of educational resources, including library facilities, courses, and digital resources, for both the university and local communities. In line with this commitment, the University is expanding digital access channels to enhance resource availability, while ongoing improvements to digital infrastructure facilitate seamless access for community members. Regular evaluations are conducted to ensure that access to educational resources remains efficient and effective, supporting a culture of knowledge sharing and accessibility for all.

4.3 Equal Opportunity and Non-Discrimination

(Monitoring and Evaluation of Equal Access)

The University is committed to fostering an inclusive environment that upholds equal opportunities and prevents all forms of discrimination in academic and administrative spheres, including education, employment, and service provision. This dedication to equity and inclusion is supported by enhanced awareness and training programs that emphasize the importance of diversity. A transparent, confidential process is in place for submitting and addressing discrimination complaints, ensuring they are handled effectively. Additionally, regular reviews of employment and academic policies are conducted to ensure they align with equal opportunity and anti-discrimination standards, reinforcing a fair and respectful environment for all.

4.4. First-Generation Student Support

(First-Generation Student Mentoring Programs)

The University is dedicated to empowering first-generation students by providing tailored academic and social support to ensure their success and smooth integration into the university community. Specialized mentoring programs offer guidance in both academic and social skills, addressing unique challenges these students may face. To strengthen this support, the University is developing mentoring content specific to first-generation students, increasing the number of academic advisors for personalized assistance, and implementing continuous monitoring to track their academic and social progress. These initiatives create a supportive environment that fosters growth and achievement for first-generation students.



4.5. Managing Educational Activities for the Public (Internal and External) (Educational Events Management- Internal and External)

The University is committed to organizing high-quality public educational activities, both on and off campus, to foster knowledge sharing and broaden educational opportunities for the university and the local community. To ensure these events are impactful, a structured framework is in place for managing educational events, with mechanisms developed to measure community impact and track yearly progress. Collaborations with local partners help extend the reach of external educational initiatives, while ongoing training programs for event organizers enhance the quality of these events. These efforts support sustainable learning and community engagement, reinforcing the University's role in knowledge dissemination.

4.6. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1	Teaching Certification Enrolees	94%	96%	99%
2	Free Resource Users	91%	93%	96%
3	Anti-Discrimination Policy Compliance	93%	95%	98%
4	First-Gen Completion Rate	93%	95%	98%
5	Internal Education Event Participants	93%	95%	98%
6	External Education Event Participants	92%	94%	97%

4.7. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	AAU Health Training Center Concludes Basic Life Support Course	GO
2.	Dean of Architecture and Design Speaks at Petra University's Scientific Day	GO
3.	Interior Design Student "Fatima Al-Saadi" Participates in the 8th International Conference on Advances in Mechanical Engineering	GO
4.	The Department of Multimedia and Graphic Design Organizes a Scientific visit to the Hindiyah Museum of Arts / Jalad Cultural Center	GO
5.	Dr. Maher Al-Hourani Inaugurates the Scientific Training Week at AAU	GO
6.	TEACH YOURSELF	GO
7.	Interior Design organizes a workshop entitled Design Thinking in Product Making	GO
8.	Supporting the students of the Faculty of Pharmacy at Amman Ahliyya University to participate in the training program "Biodiversity for Sustainable Health" provided by the Italian University G. d'Annunzio Chieti and Pescara	GO
9.	The Practical Research Club at Amman Private University: One of the main sources for developing practical research skills among students of the College of Pharmacy.	GO

4.8. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Understanding Continuous Use Intention Of Technology Among Higher Education Teachers In Emerging Economy: Evidence From Integrated Tam, Tpack, And Utaut Model	GO
2.	Assessing Water Production from Air Conditioning Systems As An Unconventional Supply Source: A Focus On Water Quality And Social Acceptance Perspectives	GO



Sustainability Report 2024

3.	Exploring The Role Of Digital Citizenship and Digital Empowerment To Enhance Academic Performance Of Business Students	GO
4.	The Relationship Between Psychological Stress and Mindfulness Among Outstanding Students in The School Basic Stage	GO
5.	Comparison Between Task-Oriented Training and Proprioceptive Neuromuscular Facilitation Exercise on Upper Extremity Function In Spastic Cerebral Palsy	GO
6.	Elevating Physical Education Teacher Through Technology Integration	GO
7.	Post-Editing A Google Translated Output: Experienced Translators Vs. Trainees	GO
8.	Investigating The Motivating Factors That Influence The Adoption Of Blended Learning For Teachers' Professional Development	GO
9.	The Influence of Students' Self-Control And Smartphone E-Learning Readiness On Smartphone-Cyberloafing	GO
10.	Efficiency Of E-Learning In Applied Materials For Visual Communication Students: An Experimental Study	GO

4.9. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Sela Training	GO
2.	Arab Satellite Broadcasting Organization	GO
3.	Pearson Education, UK	GO
4.	The American Heart Association	GO
5.	Roya Academy for Media Training	GO



5

GENDER
EQUALITY





5. Gender Equality

5.1. Non-Discrimination Against Women

(Monitoring and Ensuring Equal Opportunities, Anti-Discrimination Awareness)

The University is committed to organizing high-quality public educational activities, both on and off campus, to foster knowledge sharing and broaden educational opportunities for the university and the local community. To ensure these events are impactful, a structured framework is in place for managing educational events, with mechanisms developed to measure community impact and track yearly progress. Collaborations with local partners help extend the reach of external educational initiatives, while ongoing training programs for event organizers enhance the quality of these events. These efforts support sustainable learning and community engagement, reinforcing the University's role in knowledge dissemination.

5.2 Women's Access to Education Enhancement

(Female Scholarships Provision, Academic Mentoring and Underrepresented Fields)

The University is dedicated to fostering an inclusive environment that promotes equal opportunities for women and prevents discrimination across all academic and administrative areas. Committed to supporting women's rights and active participation, the University works to enhance female representation in academic programs and employment positions. Key initiatives include providing a discrimination-free environment and conducting regular workshops to raise awareness about the importance of equal opportunities and non-discrimination. Through continuous monitoring and targeted awareness programs, the University ensures a respectful and supportive environment for women's growth and success.

5.3 Non-Discrimination and Respect for Personal Diversity

(Diversity and Personal Respect Guidelines)

The University is dedicated to creating an inclusive environment that respects personal diversity and prohibits discrimination based on race, religion, gender, disability, or any other personal attributes. This commitment ensures a respectful and supportive educational and work environment that values justice and equality for all. Key actions include establishing a confidential reporting and investigation system for discrimination cases, conducting regular workshops on diversity and cultural understanding, and consistently reviewing policies to align with diversity and equality standards. These efforts uphold the University's dedication to fostering a community grounded in respect and inclusivity.

5.4. Support for Women's Participation (Maternity and Paternity)

(Maternity and Paternity Leave Provision, Flexible Work for Supporting Parents)

The University is dedicated to supporting women's participation and promoting work-life balance through flexible maternity and paternity policies. These policies encourage both parents to share childcare responsibilities, helping employees balance their professional and family roles. Key initiatives include raising awareness on shared childcare through workshops, evaluating the impact of flexible work policies on employee satisfaction and productivity, and providing guidance programs on time management and work-life balance. These efforts support working mothers and fathers, enhance women's workforce continuity, and contribute to a more balanced and supportive work environment for all parents.



5.5. Protection of Whistleblowers Against Discrimination

(Safe Reporting Mechanism, Legal Protection Provision for Whistleblowers)

The University is dedicated to safeguarding individuals who report cases of discrimination by providing a secure environment and protected reporting channels. This commitment includes legal protection to ensure that whistleblowers experience no adverse effects on their academic or professional careers. Efforts to support this initiative involve conducting regular awareness sessions on whistleblower rights and reporting mechanisms, improving follow-up procedures to handle complaints swiftly and effectively, and establishing periodic reviews of reported cases. These measures help maintain a fair and safe educational and work environment, reinforcing the University's commitment to justice and protection for all.

5.6. Parental Participation in Childcare Duties Support

(Work-Family Balance Support Programs)

The University is committed to supporting employees in balancing work and family responsibilities by promoting programs and services that encourage active parental involvement in childcare. Flexible policies allow parents to participate fully in childcare without compromising their career growth. Key initiatives include offering work-family balance programs, such as workshops and awareness events, and fostering partnerships with external organizations to provide discounted childcare services, easing financial burdens. Additionally, the University encourages professional development for parents by providing flexible schedules and online learning platforms, enabling career progression while accommodating family needs.

5.7. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Female Academic Representation	91%	93%	96%
2.	Female Scholarship Recipients	92%	94%	97%
3.	Personal Anti-Discrimination Policy Compliance	93%	95%	98%
4.	Maternity Leave Users	95%	97%	100%
5.	Whistleblower Resolution Rate	95%	97%	100%
6.	Work-Family Program Participants	93%	95%	98%

5.8. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Health Awareness Lecture: "Social Media and its Psychological Effects on Adolescent Girls"	GO
2.	Community awareness lectures for the College of Nursing	GO
3.	Women's Health Center at Amman Private University participates in a workshop entitled Capacity Building for Reproductive Health Networks and Women's, Newborns and Children's Health	GO
4.	The Women's Health Center holds a workshop entitled Drugs and their effects on the health of women and children	GO
5.	The College of Nursing holds a free course entitled: Cardiopulmonary Resuscitation for Mothers	GO
6.	Women's Health Center Organizes Awareness Event in Deir Alla	GO



Sustainability Report 2024

7.	https://www.ammanu.edu.jo/news/dean-of-the-faculty-of-architecture-and-design-participates-in-the-2nd-conference-of-the-regional-network-for-energy-and-women-in-the-middle-east-and-north-africa/	GO
----	---	--------------------

5.9. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Gender disparities among students at Jordanian universities during COVID-19	GO
2.	Empowering Women Through Digital Transformation: Case Studies in Enhancing Gender Equality in Business Leadership	GO
3.	Daisy Miller: A Female Prototype in a Patriarchal Society	GO
4.	Technostress Impact on Educator Productivity: Gender Differences in Jordan's Higher Education	GO
5.	The Association between Marriage Consanguinity and Hearing Loss in Jordan: A Retrospective Analysis	GO
6.	The Effectiveness of a Cognitive Supervision Program in Improving Counseling Skills and Reducing Performance Anxiety among Trainee Counselors in Counseling Programs for Abused Women. Qualitative Study	GO
7.	Health Awareness Lecture: "Social Media and its Psychological Effects on Adolescent Girls"	GO
8.	Community awareness lectures for the College of Nursing	GO
9.	Women's Health Center at Amman Private University participates in a workshop entitled Capacity Building for Reproductive Health Networks and Women's, Newborns and Children's Health	GO
10.	The Women's Health Center holds a workshop entitled Drugs and their effects on the health of women and children	GO
11.	The College of Nursing holds a free course entitled: Cardiopulmonary Resuscitation for Mothers	GO
12.	Women's Health Center Organizes Awareness Event in Deir Alla	GO

5.10. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Ein Al Basha Health Center	GO
2.	RENEW MENA	GO
3.	The Jordanian National Commission For Women	GO
4.	Queen Rania Foundation	GO
5.	SIGI Jordan	GO



6 CLEAN WATER AND SANITATION





6. Clean Water and Sanitation

6.1. Campus Water Consumption Management

(Water Consumption Measurement, Drought-Tolerant Landscaping Building Standards for Water Conservation)

The University is committed to sustainable water management on campus by setting stringent standards for measuring and reducing water usage and enhancing water-use efficiency. Key actions include implementing advanced irrigation systems that utilize smart technology and selecting drought-tolerant plants to minimize water demand in landscaping. Additionally, awareness campaigns are conducted to educate students and staff on water conservation practices. Regular assessments are performed to ensure buildings meet water efficiency standards, with improvements made as needed, supporting the University's goal of environmental sustainability through responsible water consumption management.

6.2 Water Treatment and Reuse

(Waste Water Treatment, Water Pollution Prevention, Water Reuse)

The University is dedicated to sustainable water resource management through best practices in wastewater treatment and reuse, aimed at reducing environmental impact. This commitment includes the development of advanced water treatment systems to ensure high wastewater quality, prevent pollution, and promote the safe reuse of treated water according to health and safety standards. Key initiatives involve regular updates to treatment systems to stay compliant with the latest environmental guidelines, awareness programs for students and staff on the benefits of water reuse, and partnerships with local institutions to extend the use of treated water beyond campus.

6.3 Water Management Education and Awareness

(Community Water Management Education, Water Usage Awareness Campaign)

The University is dedicated to promoting environmental awareness and reducing water consumption through comprehensive educational and awareness programs on water management. By instilling a culture of water conservation, the University encourages sustainable practices within both the campus and local community. Key initiatives include regular awareness campaigns on water sustainability, workshops and training sessions to enhance students' understanding of water resource management, and collaborations with local entities to develop joint programs focused on water conservation and quality improvement.

6.4. Water Security and Conservation Collaboration

(Water Security Collaboration, Off-Campus Water Conservation Support Procedure)

The University is committed to enhancing water security and conservation by collaborating with government and community organizations to promote sustainable water resource management beyond campus. Key initiatives include developing joint programs with governmental and community institutions to share expertise on effective water conservation practices. The University also offers awareness workshops in partnership with these organizations to deepen community understanding of water's importance and conservation methods.



Sustainability Report 2024

6.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Per Capita Water Efficiency Use	92%	94%	97%
2.	Water Conservation Compliance	93%	95%	98%
3.	Water Reuse Rate	89%	91%	94%
4.	Water Education Programs	90%	92%	95%
5.	Water Awareness Campaigns	88%	90%	93%
6.	Water Security Partnerships	87%	89%	92%

6.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	AAU Participates in the Artificial Intelligence Conference on the Water, Energy, Food, and Environment Nexus	GO
2.	A High-Level Delegation from Iraq, in Collaboration with the International Trade Center, Visits AAU	GO
3.	AAU's Faculty of Agricultural Technology Participates in the Arab Forum on Water Scarcity and Management	GO
4.	A Memorandum of Understanding between our University and the National Agricultural Research Center	GO
5.	Al Ahliyya Amman University Hosts Workshops on Water Conservation and Purification Technologies	GO
6.	University Launches Water Conservation Campaign	GO

6.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Assessing water production from air conditioning systems as an unconventional supply source: A focus on water quality and social acceptance perspectives	GO
2.	Photocatalytic Polyaromatic hydrocarbons (PAH) utilizing magnetic CrFe ₂ O ₄ nanoparticle: Green synthesis, characterization, ab initio studies, electronic, magnetic features and water treatment application	GO
3.	Chitosan polymer/ functionalised rambutan peel using carboxylic acid: process optimisation using Box-Behnken Design for brilliant green dye removal	GO
4.	Enhanced properties of PVDF membranes using green ag-nanoclay composite nanoarchitectonics	GO
5.	Determine the Prevalence of Hepatitis B and C During Pregnancy by Using Machine Learning Algorithm	GO
6.	Application of chitosan/acid-treated biomass composite for dye wastewater treatment: Adsorption modeling using Box-Behnken Design	GO
7.	Microbial communities in the Dead Sea and their potential biotechnological applications	GO
8.	Cross-linked chitosan-adipic/zirconia (ZrO ₂) nanocomposite for removal of eosin y dye: insight into physicochemical properties, adsorption modelling, isotherms, and kinetics	GO
9.	Functionalization of chitosan/alumina nanoparticles with carboxylic groups using phthalic anhydride for adsorption of methylene blue dye via response surface methodology	GO



Sustainability Report 2024

10.	Assessment of carbonized himalayan chir pine biomass as an eco-friendly adsorbent for effective removal of industrial dyes	GO
-----	--	--------------------

6.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Ministry Of Water And Irrigation	GO
2.	miyahuna	GO
3.	USAID	GO
4.	Jordan Environment Society	GO
5.	CSOs	GO



7 AFFORDABLE AND CLEAN ENERGY





7. Affordable and Clean Energy

7.1. University Building Energy Efficiency

(Water Security Collaboration, Off-Campus Water Conservation Support)

The University is committed to achieving energy efficiency across all campus buildings and facilities, incorporating advanced standards in both new constructions and renovations to minimize energy consumption and carbon emissions. This commitment aligns with global environmental goals, creating a more sustainable campus. Key initiatives include staying current with international energy efficiency standards, applying these practices in all construction and renovation projects, and conducting workshops to educate faculty, staff, and students on energy-saving practices. Additionally, collaborations with specialized sustainable energy institutions facilitate knowledge exchange and the adoption of cutting-edge technologies, reinforcing the University's leadership in energy efficiency.

7.2 Carbon Management and Emissions Reduction

(Carbon Emissions Management)

The University is dedicated to reducing carbon emissions and minimizing environmental impact through innovative strategies, including the integration of solar panels and other renewable technologies across campus. By enhancing energy efficiency, investing in low-carbon energy sources, and adopting eco-friendly standards in all facilities and future projects, the University aims to foster a sustainable campus environment. Key initiatives include developing a long-term plan with clear targets for carbon reduction, organizing training programs and workshops to promote sustainable practices, and implementing solar panels to support energy needs with renewable power. Regular assessments of carbon management procedures ensure continued effectiveness in achieving the University's environmental goals, positioning it as a leader in carbon management and sustainability.

7.3 Energy Efficiency and Clean Energy Education

(Community Energy Efficiency Education Programs)

The University is committed to promoting energy efficiency and clean energy education through dedicated awareness programs that serve both students and the local community. This initiative aims to enhance understanding of energy conservation and the adoption of clean energy technologies, fostering a culture of environmental sustainability. Key efforts include organizing regular workshops and educational lectures to inform the community about energy efficiency and the advantages of clean energy. Additionally, partnerships with community organizations and government bodies help amplify sustainable energy awareness, while the University continues to integrate renewable energy and energy efficiency topics into its academic programs.

7.4. Innovation and Low-Carbon Economy Support

(Low-Carbon Economy Startups Support, Local Industry Energy Efficiency Consulting)

The University is dedicated to driving innovation and advancing a low-carbon economy by fostering an environment that supports entrepreneurs and startups in clean energy and energy efficiency sectors. Through consulting services and technical assistance, the University actively contributes to the development of sustainable solutions that aid in reducing environmental impact and supporting a green economy. Key initiatives include increasing funding for startups



Sustainability Report 2024

in low-carbon fields, establishing partnerships with industrial sectors to expand consulting services on energy efficiency, and offering specialized training programs to boost skills in clean energy innovation and entrepreneurship. These efforts position the University as a catalyst for sustainable economic growth and environmental stewardship.

7.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Energy Standards Compliance	92%	94%	97%
2.	Energy Efficiency Improvement Rate	93%	95%	98%
3.	CO2 Reduction Rate	92%	94%	97%
4.	Emission Reduction Initiatives	93%	95%	98%
5.	Community Education Programs	89%	91%	94%
6.	Industry Consulting Services	90%	92%	95%

7.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Dean of the Faculty of Architecture and Design Participates in the 2nd Conference of the Regional Network for Energy and Women in the Middle East and North Africa	GO
2.	Al Ahliyya Amman University Hosts Sustainable Energy Challenge for Students	GO
3.	Al Ahliyya Amman University Hosts Workshops on Renewable Energy	GO
4.	University Conducts Energy Efficiency Audits on Campus Buildings	GO
5.	Al Ahliyya Amman University Partners with Clean Energy Start-ups for Innovation	GO

7.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Data-driven interpretable ensemble learning methods for the prediction of wind turbine power incorporating SHAP analysis	GO
2.	A multilayer perceptron neural network approach for optimizing solar irradiance forecasting in Central Africa with meteorological insights	GO
3.	Empowering power distribution: Unleashing the synergy of IoT and cloud computing for sustainable and efficient energy systems	GO
4.	A new intelligently optimized model reference adaptive controller using GA and WOA-based MPPT techniques for photovoltaic systems	GO
5.	An energy-efficient and deadline-aware workflow scheduling algorithm in the fog and cloud environment	GO
6.	An analysis of case studies for advancing photovoltaic power forecasting through multi-scale fusion techniques	GO
7.	Multi-objective Snow Ablation Optimization Algorithm: An Elementary Vision for Security-Constrained Optimal Power Flow Problem Incorporating Wind Energy Source with FACTS Devices	GO
8.	Optimizing grid-connected PV systems with novel super-twisting sliding mode controllers for real-time power management	GO
9.	Optimizing dynamic economic dispatch through an enhanced Cheetah-inspired algorithm for integrated renewable energy and demand-side management	GO



Sustainability Report 2024

10.	Artificial intelligence-based prediction of hydrogen adsorption in various kerogen types: Implications for underground hydrogen storage and cleaner production	GO
-----	--	--------------------

7.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Ministry of Energy and Mineral Resources	GO
2.	National Electric Power Company	GO
3.	Philadelphia Solar	GO
4.	REEE II TA	GO
5.	JREEEF	GO



8

DECENT WORK AND ECONOMIC GROWTH





8. Decent Work and Economic Growth

8.1. Fair and Equitable Wage

(Living Wage Compliance Review, Gender Pays Gap Review, Employee Rights and Pay Appeals)

The University is committed to ensuring fair and equitable wages for all employees, prioritizing living wage standards and promoting pay equity across gender and various demographic groups. This dedication fosters a transparent, balanced work environment that respects employee rights and enhances job satisfaction. Key actions include conducting annual reviews to ensure compliance with living wage standards, establishing a confidential and secure system for reporting pay-related grievances, and guaranteeing fair investigations of these concerns. Additionally, the University promotes internal communication to raise awareness about fair wage policies and encourages feedback to continually improve employee satisfaction and uphold pay equity.

8.2. Labour Rights and Non-Discrimination

(Workplace Anti-Discrimination, Union and Labour Rights Recognition, Long-Term Employment Contract Monitoring)

The University is dedicated to creating a workplace founded on equality and respect for labor rights, free from discrimination, and supportive of equal opportunities for all employees. This commitment includes protecting workers' rights, enhancing union participation, and affirming essential labor standards. To uphold these values, the University prepares annual reports on labor rights and workplace equality, providing senior management with insights for potential policy improvements. Additionally, employees are encouraged to participate in union activities, supported by administrative assistance and a cooperative approach between management and unions. Regular sessions are organized to inform employees of their rights and to guide them on labor and equality policies, ensuring a transparent and fair work environment for everyone.

8.3. Outsourced Labour Rights

(Supplier Labour Rights Compliance Review)

The University is committed to upholding labor rights for outsourced personnel by requiring all suppliers and external partners to comply with established labor standards. This policy ensures a fair and ethical work environment for everyone involved in university activities, regardless of employment type. Key initiatives include implementing a robust system to regularly monitor and evaluate supplier compliance with labor rights, conducting awareness programs to emphasize the importance of these standards, and taking strict actions against non-compliant suppliers, including issuing warnings or contract termination. These measures reinforce the University's dedication to humane and equitable treatment across all partnerships.

8.4. Anti-Forced Labour and Anti-Human Trafficking

(Forced Labour and Human Trafficking Risk Assessment)

The University is firmly committed to preventing forced labor and human trafficking by implementing comprehensive policies and protective measures. This commitment includes establishing procedures to identify, report, and address any instances of forced labor or trafficking, ensuring adherence to both local and international laws. Key actions involve providing training programs for employees and administrators to recognize signs of forced labor and respond appropriately, strengthening partnerships with legal authorities and relevant



organizations to enforce protective policies, and developing secure reporting channels for suspected cases on campus. These initiatives create a safe, rights-respecting work environment and reinforce the University's stance against exploitation.

8.5. Student Work Placement and Development (Student Work Placement Provision)

The University is dedicated to equipping students with valuable practical training opportunities that enhance their job readiness and foster both academic and professional growth. By partnering with local and international companies, the University provides multi-disciplinary fieldwork experiences designed to build essential skills for the job market. To ensure effective training, the University is developing a smart electronic monitoring system to evaluate student performance during and after their placements. Additionally, preparatory courses are offered to help students maximize the benefits of their work placements, ensuring a strong foundation for career success after graduation.

8.6. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Living Wage Employees	94%	96%	99%
2.	Pay Equity Satisfaction Rate	93%	95%	98%
3.	Discrimination Complaints Addressed	95%	97%	100%
4.	Labor Rights Compliance	91%	93%	96%
5.	Anti-Forced Labor Compliance	95%	97%	100%
6.	Post-Placement Employment Rate	90%	92%	95%

8.7. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Career Day at AAU for Major Local and International Companies	GO
2.	Al Ahliyya Amman University organizes a series of lectures entitled "Success Stories of Distinguished Graduates" to enhance professional development	GO
3.	The Practical Research Club at Al Ahliyya Amman University: One of the main sources for developing practical research skills among students of the College of Pharmacy.	GO
4.	AAU Participates in the 29th Arab Forum for Internship Exchange Among Arab Universities	GO
5.	Al-Ahliyya Amman University participates in the 28th forum for the exchange of training offers for Arab universities	GO
6.	New Collaboration: Al Ahliyya Amman University and Four Seasons Hotel Sign Agreement to Boost Student Training in Hospitality Management	GO
7.	AAU Partners with The Ritz-Carlton Hotel for Training Culinary Arts and Hospitality Students	GO
8.	AAU Inks Agreement with Marriott Hotel for Culinary Arts and Hospitality Student Training	GO
9.	In Collaboration with Vienna Healthcare Group: AAU Launches Employment Program for Jordanian Nursing Graduates in Austria	GO
10.	Cooperation Agreement between AAU and Kotler Impact Company	GO



8.8. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Exploring the Nexus between Fintech, natural resources, urbanization, and environment sustainability in China: A QARDL study	GO
2.	An empirical assessment of the effect of natural resources and financial technologies on sustainable development in resource abundant developing countries: Evidence using MMQR estimation	GO
3.	Fintech and contactless payment: Help or hindrance? The role of invasion of privacy and information disclosure	GO
4.	Enhancing Ethiopian power distribution with novel hybrid renewable energy systems for sustainable reliability and cost efficiency	GO
5.	Plant disease recognition using residual convolutional enlightened Swin transformer networks	GO
6.	Optimal sizing and location of grid-interfaced PV, PHES, and ultra capacitor systems to replace LFO and HFO based power generations	GO
7.	Industry 4.0 technologies and circular economy synergies: Enhancing corporate sustainability through sustainable supply chain integration and flexibility	GO
8.	Green entrepreneurial leadership, and performance of entrepreneurial firms: does green product innovation mediates?	GO
9.	Net valence analysis of iris recognition technology-based FinTech	GO
10.	Assessing the role of information technology in promoting environmental sustainability and preventing crime in E-commerce	GO

8.9. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Istiklal Hospital	GO
2.	Abdali Hospital	GO
3.	University Schools Group	GO
4.	Gold lab	GO
5.	Zamzam Exchange	GO
6.	Kotler Impact	GO



9 INDUSTRIES, INNOVATION AND INFRASTRUCTURE





9. Industry, Innovation and Infrastructure

9.1. University Spin-Off Support

(Spin-Off Project Mentorship and Support)

The University is dedicated to fostering innovation and entrepreneurship by supporting spin-off projects that emerge from research and academic innovations within the university community. This commitment includes providing a supportive environment for these initiatives to thrive. Key actions involve allocating additional financial resources to aid spin-off projects in their early stages, offering specialized training programs and workshops for aspiring entrepreneurs, and strengthening partnerships with external entities to secure further funding opportunities. Through these efforts, the University empowers spin-off projects, helping to drive innovation and contribute to the broader entrepreneurial ecosystem.

9.2. Industrial and Commercial Research Funding and Revenue Enhancement

(Industry and Commerce Research Partnership Development)

The University is committed to increasing research funding by cultivating partnerships with industrial and commercial sectors, aiming to drive innovation, support sustainable development, and generate revenue from research projects. To strengthen these efforts, the University is developing strategies to attract new partnerships, providing incentives for researchers and faculty members who secure research contracts, and establishing a database to monitor and evaluate the effectiveness of research collaborations. This approach ensures continuous improvement in research partnerships, fostering mutual benefits that enhance both academic and industry outcomes.

9.3 Academic Resources and Targeted Research Expansion

(Academic Resources Allocation by Subject Area)

The University is dedicated to advancing academic resources and research in strategic fields that foster academic innovation and address industry and community needs. This commitment includes prioritizing the development of key academic disciplines by ensuring optimal allocation of resources and faculty support, thereby strengthening both research and educational capacities. Key initiatives involve regular reviews to assess resource requirements across disciplines, reinforcing partnerships with industry and community organizations to support the expansion of strategic fields, and promoting continuous development and training programs for faculty.

9.4. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Supported Spin-Offs	89%	91%	94%
2.	Industrial Research Income	91%	93%	96%
3.	Industry Research Contracts	92%	94%	97%
4.	STEM Academic Staff	94%	96%	99%
5.	Medicine Academic Staff	94%	96%	99%
6.	Arts & Humanities Staff	93%	95%	98%



9.5. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Engineers" announces the launch of the activities of the Seventh Jordanian International Architectural Conference entitled Architecture and Artificial Intelligence during the period from 27 to 28 April	GO
2.	AAU Participates in the First National Conference on Pharmaceutical Security	GO
3.	The Practical Research Club at Amman Private University: One of the main sources for developing practical research skills among students of the College of Pharmacy.	GO
4.	Memorandum of Understanding between AAU and Pearson Education, UK	GO
5.	AAU Hosts a Delegation from the University of Twente and AgriWatch	GO
6.	MoU Between Al-Ahliyya Amman University and the Arab Agriculture Forum	GO
7.	Professor Sari Hamdan Receives President of IEEE Jordan Section	GO
8.	AAU Inks Memorandum of Understanding with Palestine Technical University	GO
9.	AAU Signs Memorandum of Understanding with Konn Homes for Advanced Building Construction	GO

9.6. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Unlocking corporate social responsibility and environmental performance: Mediating role of green strategy, innovation, and leadership	GO
2.	Toward digital construction supply chain-based Industry 4.0 solutions: scientometric-thematic analysis	GO
3.	A multilayer perceptron neural network approach for optimizing solar irradiance forecasting in Central Africa with meteorological insights	GO
4.	Empowering power distribution: Unleashing the synergy of IoT and cloud computing for sustainable and efficient energy systems	GO
5.	Artificial intelligence-based prediction of hydrogen adsorption in various kerogen types: Implications for underground hydrogen storage and cleaner production	GO
6.	An opportunistic energy-efficient dynamic self-configuration clustering algorithm in WSN-based IoT networks	GO
7.	Securing modern power systems: Implementing comprehensive strategies to enhance resilience and reliability against cyber-attacks	GO
8.	Hybrid genetic algorithm-simulated annealing based electric vehicle charging station placement for optimizing distribution network resilience	GO
9.	The future of competitive advantage in Oman: Integrating green product innovation, AI, and intellectual capital in business strategies	GO
10.	Electric vehicle charging technologies, infrastructure expansion, grid integration strategies, and their role in promoting sustainable e-mobility	GO

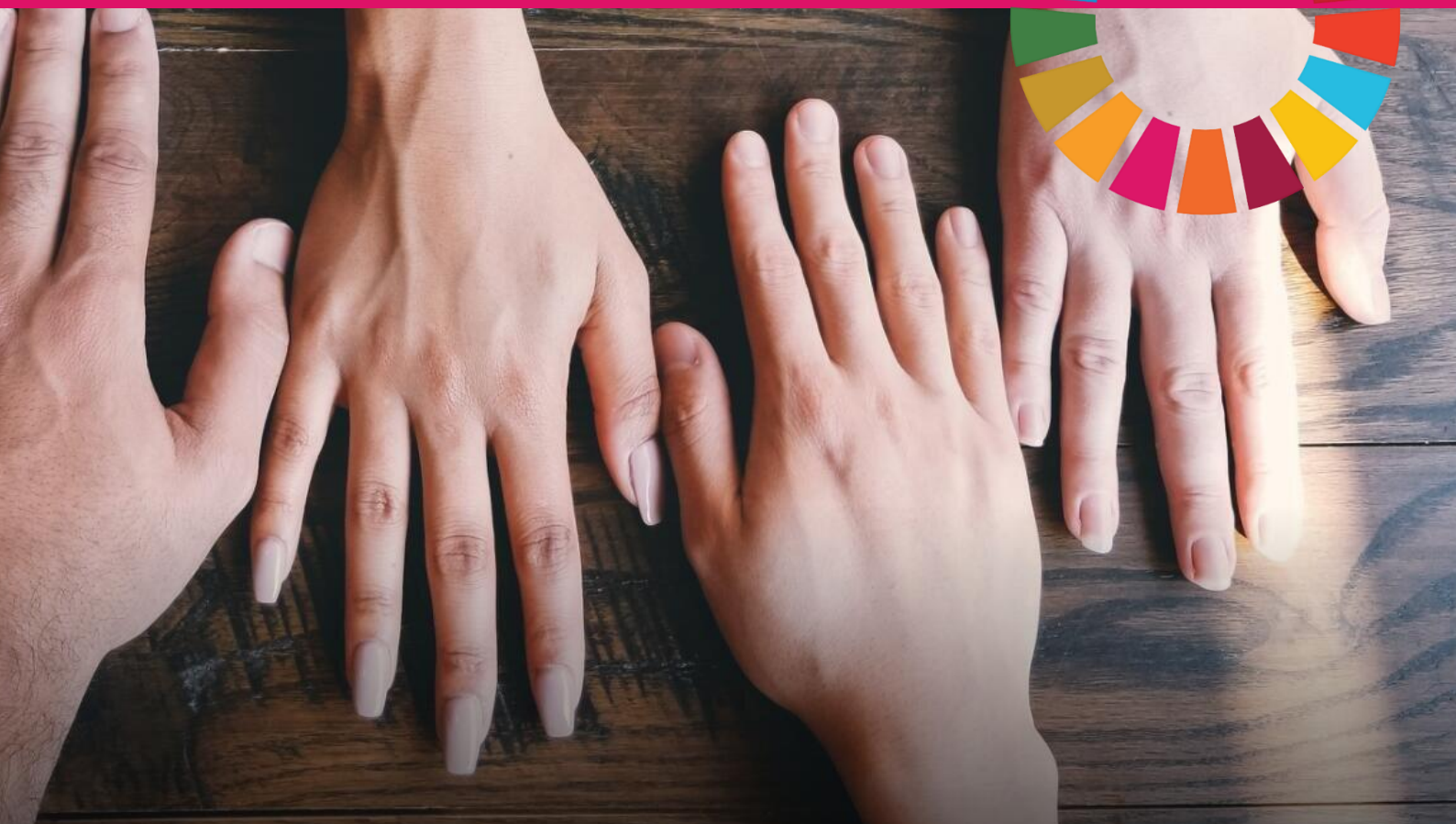


9.7. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Jordanian Engineers Association	GO
2.	Pearson BTEC	GO
3.	AgriWatch	GO
4.	Arab Forum for Agriculture	GO
5.	Palestine Technical University - Kadoorie	GO



10 REDUCED INEQUALITIES





10. Reduced Inequalities

10.1. First-Generation Student Support

(Tracking First-Generation Students, Mentoring Programs for First-Generation Students)

The University is dedicated to supporting first-generation students by providing tailored mentoring and academic support programs that foster their academic success and help them adapt to university life. Key initiatives include developing specialized mentoring programs to strengthen their academic skills, offering additional scholarships and financial aid to alleviate financial burdens, and organizing awareness events to promote their engagement in university activities. These efforts aim to create a supportive environment that encourages first-generation students to build meaningful academic and social connections, enhancing their overall higher education experience.

10.2. International Students from Developing Countries Support

(Scholarships for International Students from Developing Countries)

The University is committed to supporting international students from developing countries by offering accessible educational opportunities, including scholarships, academic support, and a range of services designed to foster an inclusive educational environment. These initiatives promote cultural diversity and knowledge exchange, while also contributing to the development of students' home countries. Key efforts include expanding scholarship programs to increase the number of seats for international students, developing tailored academic and social support services such as orientation and mentoring programs, and strengthening partnerships with universities and institutions in developing countries to enhance academic collaboration and student exchange opportunities. Through these measures, the University builds a welcoming and enriching environment for international students.

10.3. Disability Inclusion and Support

(Accessible Facilities for People with Disabilities, Disability Support Services - reasonable accommodation- including adequately funded)

The University is committed to supporting international students from developing countries by offering accessible educational opportunities, including scholarships, academic support, and a range of services designed to foster an inclusive educational environment. These initiatives promote cultural diversity and knowledge exchange, while also contributing to the development of students' home countries. Key efforts include expanding scholarship programs to increase the number of seats for international students, developing tailored academic and social support services such as orientation and mentoring programs, and strengthening partnerships with universities and institutions in developing countries to enhance academic collaboration and student exchange opportunities. Through these measures, the University builds a welcoming and enriching environment for international students.

10.4. Anti-Discrimination and Anti-Harassment

(Anti-Discrimination and Anti-Harassment Complaints, Anti-Discrimination Workshops Procedure)

The University is committed to fostering a safe and inclusive environment by preventing all forms of discrimination and harassment, ensuring fair treatment and mutual respect for all community members. This policy promotes equality in both work and study settings, aligned



with applicable regulations. Key initiatives include expanding training programs on anti-discrimination and anti-harassment for staff and students, improving confidential reporting channels for complaints, and conducting annual reviews of policies and procedures to maintain a high standard of inclusivity. Through these actions, the University supports a respectful and equitable environment for everyone.

10.5. Diversity and Equality Support (Support Programs for Underrepresented Groups)

The University is committed to fostering diversity and equality by implementing comprehensive programs and policies that support the representation and inclusion of underrepresented groups within the university community. This commitment includes creating a fair and inclusive environment, promoting cross-cultural understanding, and encouraging mutual respect among all members. Key initiatives include expanding diversity and equality awareness programs to involve the local community alongside students and staff, developing regular training for faculty and administrative staff on inclusive practices, and establishing dedicated campus spaces for open discussions on diversity and equality. These efforts build an integrated, understanding campus community that celebrates diversity and supports all individuals.

10.6. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	First-Generation Students	91%	93%	96%
2.	Intl. Students from Developing Countries	93%	95%	98%
3.	Accessible Facilities Rate	94%	96%	99%
4.	Disability Support Beneficiaries	94%	96%	99%
5.	Discrimination & Harassment Complaints Addressed	95%	97%	100%
6.	Underrepresented Group Beneficiaries	93%	95%	98%

10.7. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Strengthening partnership between the Women's Health Center/College of Nursing with the government health sector and the local community in Balqa Governorate.	GO
2.	AAU Organizes a Volunteering Campaign to Support the Charitable Clothing Bank	GO
3.	AAU Launches its Annual Ramadan Charity Campaigns to Support Members of the Local Community in Al Balqa Governorate.	GO
4.	Strengthening partnership between the Women's Health Center/College of Nursing with the government health sector and the local community in Balqa Governorate.	GO
5.	AAU Organizes a Volunteering Campaign to Support the Charitable Clothing Bank	GO
6.	AAU Launches its Annual Ramadan Charity Campaigns to Support Members of the Local Community in Al Balqa Governorate.	GO
7.	Al Ahliyya Amman University Hosts Diversity and Inclusion Workshop	GO
8.	University Launches Scholarship Program for Underprivileged Students	GO



Sustainability Report 2024

9.	University President Launches Accessible Education Initiative for Disadvantaged Communities	GO
10.	University Organizes Community Outreach Program to Empower Marginalized Groups	GO

10.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Oil, gold and international stock markets: Extreme spillovers, connectedness and its determinants	GO
2.	Extreme quantile connectedness and spillovers between oil and Vietnamese stock markets: a sectoral analysis	GO
3.	Survival of stage III non-seminoma testis cancer patients versus simulated controls, according to race/ethnicity	GO
4.	The cryptocurrency conundrum: the emerging role of digital currencies in geopolitical conflicts	GO
5.	Empowering Women Through Digital Transformation: Case Studies in Enhancing Gender Equality in Business Leadership	GO
6.	Leveraging Aquaculture and Mariculture for Sustainable Economic Growth in Sri Lanka: Challenges and Opportunities	GO
7.	The Impact of the Outputs of the Development and Employment Fund in Reducing Poverty and Unemployment in Jordan	GO
8.	Embracing Disruption: The Intersection of FinTech, RegTech, and Artificial Intelligence	GO
9.	Environmental Factors and Risks Affecting the Adoption Of E-Wallets By Small And Medium-Sized Enterprises During Disasters: The Case Of Covid-19 Pandemic	GO
10.	Unmet health-care needs among Jordanian Roma with chronic diseases	GO

10.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Renew Mena, World Bank	GO
2.	MOSD	GO
3.	Islamic Relief	GO
4.	Jordan River Foundation	GO
5.	The Jordanian National Commission for Women	GO



11 SUSTAINABLE CITIES AND COMMUNITIES





11. Sustainable Cities and Communities

11.1. Arts and Cultural Heritage Support

(Public Access to Heritage Buildings and Landscapes, Public Arts Events Organization)

The University is dedicated to supporting the arts, preserving cultural heritage, and increasing public access to culturally significant facilities, including heritage buildings and landscapes. By organizing cultural and artistic events, the University enriches the cultural experience for students and the local community while raising awareness of heritage and the arts. Key actions include expanding open cultural events to enhance community participation, strengthening collaborations with local cultural institutions to diversify activities, and developing student training programs on the significance of cultural preservation. These efforts foster appreciation for heritage and ensure its continuity for future generations.

11.2. Sustainable Commuting and Housing Practices

(Sustainable Commuting Measurement and Promotion, Affordable Housing Provision for Students and Staff, Remote Working and Telecommuting Encouragement)

The University is committed to promoting sustainable commuting practices and providing affordable housing options for students and faculty, as well as supporting remote work options for employees. This approach aims to reduce both environmental and economic impacts associated with commuting, contributing to a more sustainable campus life. Key initiatives include increasing the number of electric vehicles charging stations to encourage the use of electric cars, developing bike lanes and other facilities that support sustainable commuting, and offering awareness programs to highlight the environmental benefits of these practices. Additionally, affordable housing options are provided for students and staff, and remote work options are encouraged to further reduce the need for daily commuting. These efforts support a greener, more inclusive university experience.

11.3. Sustainable Building and Campus Planning

(Sustainable Building Standards, Pedestrian Access Priority, Local Authority Collaboration for Community Planning)

The University is dedicated to integrating sustainable building and campus planning practices to create an environmentally responsible and accessible campus. By adhering to sustainable building standards, the University minimizes its environmental footprint and supports a healthier, more efficient infrastructure. Key initiatives include prioritizing pedestrian access across campus to encourage walkability, reducing the need for vehicle use. Collaboration with local authorities further enhances community planning efforts, ensuring that campus developments align with broader sustainability and community accessibility goals. In addition, efforts to promote sustainable commuting, such as expanding electric vehicle charging stations, reinforce the University's commitment to an eco-friendly and accessible campus environment.

11.4. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Public Arts Events	93%	95%	98%
2.	Sustainable Commuting Rate	94%	96%	99%
3.	Affordable Housing Units	93%	95%	98%
4.	Remote Work Participation	81%	83%	86%
5.	Sustainable Building Compliance	95%	97%	100%
6.	Local Authority Projects	91%	93%	96%



11.5. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	The Department of Optometry at Al-Ahliyya Amman University distributes reading devices to the blind	GO
2.	The Department of Optometry at Al-Ahliyya Amman University organizes a training course for teachers of Al-Diaa Association	GO
3.	Al-Ahliyya Amman University participates in Al-Dhia Association for the Visually Impaired White Cane Event	GO
4.	INTERNATIONAL SCIENTIFIC CONFERENCE ON PLANT BIODIVERSITY & SUSTAINABILITY	GO
5.	AAU Hosts a Delegation from the University of Twente and AgriWatch	GO
6.	MoU Between Al-Ahliyya Amman University and the Arab Agriculture Forum	GO
7.	MoU Between Al-Ahliyya Amman University and Al-Hussein Technical University	GO
8.	The Faculty of Allied Medical Sciences Organizes a "Change Day"	GO
9.	Inauguration of the "Jordanian Center for Hearing Aids Laboratory" at Al Ahliyya Amman University	GO
10.	AAU Organizes Awareness Lecture on the Scourge of Drugs as Part of Student Awareness Week Activities	GO

11.6. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Exploring the Nexus between Fintech, natural resources, urbanization, and environment sustainability in China: A QARDL study	GO
2.	VANET Network Traffic Anomaly Detection Using GRU-Based Deep Learning Model	GO
3.	A Hybrid Best-Worst Method (BWM) - Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) Approach for Prioritizing Road Safety Improvements	GO
4.	A FAHP-VIKOR model for evaluating single point interchange operational performance	GO
5.	Enhancing preservation outcomes for architectural heritage buildings through machine learning-driven future search optimization	GO
6.	Enhancing internet of things security: evaluating machine learning classifiers for attack prediction	GO
7.	Multi-criteria sustainability assessment of solid waste management in Jordan	GO
8.	Vehicular Fog Resource Allocation Approach for VANETs Based on Deep Adaptive Reinforcement Learning Combined with Heuristic Information	GO
9.	Tour guides' interpretation and tourists' pro-environmental behavior: differences across cultural and natural world heritage sites	GO
10.	Enhancing Najran's sustainable smart city development in the face of urbanization challenges in Saudi- Arabia	GO



11.7. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	ISCPB&S	GO
2.	AgriWatch	GO
3.	University of Twente	GO
4.	Arab agro forum	GO
5.	Jordanian Engineers Association	GO



12 RESPONSIBLE CONSUMPTION AND PRODUCTION





12. Responsible Consumption and Production

12.1. Ethical Sourcing of Food and Supplies

(Supplier Ethical Sourcing Assessment)

The University is committed to promoting sustainability and social justice through ethical sourcing practices for food and supplies, ensuring that all partners within its supply chain adhere to responsible environmental and social standards. To reinforce this commitment, the University has established regular review and evaluation mechanisms to assess supplier compliance with ethical sourcing standards. Efforts also include raising awareness within the university community about the importance of ethical sourcing, encouraging students and faculty to support these practices. Additionally, the University develops strategic partnerships with suppliers who prioritize sustainability, strengthening a supply chain that aligns with environmental and social responsibility values.

12.2. Hazardous Waste Management

(Hazardous Waste Disposal Management)

The University is dedicated to the safe and responsible management of hazardous waste, ensuring compliance with environmental standards to protect the university community and surrounding environment. By implementing best practices in hazardous waste disposal, the University upholds its commitment to sustainability and safety. Key actions include providing regular training for staff and students on proper hazardous waste handling, developing an electronic tracking system to monitor waste from generation to disposal, and collaborating with specialized waste management entities to ensure environmentally responsible disposal. These measures reinforce the University's dedication to maintaining a safe campus and promoting environmental health.

12.3. Recycled Waste Management and Measurement

(Waste Generation and Recycling Measurement)

The University is committed to promoting environmental sustainability by effectively managing recycled waste and reducing landfill contributions. Through structured waste reduction processes, the University aims to increase the percentage of recycled waste, advancing a culture of sustainability on campus. Key initiatives include incorporating sustainability and recycling education into the curriculum to enhance student awareness, strengthening partnerships with local and international waste management organizations to adopt best practices, and organizing regular campus clean-up campaigns. These efforts engage students and staff in active recycling participation and foster a shared responsibility for waste reduction. An emphasis on measuring waste generation and recycling rates allows the University to track progress and continually improve waste management practices.

12.4. Plastic and Disposable Item Minimisation

(Plastic Reduction in Consumables)

The University is committed to minimizing the use of plastic and non-biodegradable items throughout its facilities and departments by adopting sustainable alternatives and raising awareness about the environmental impact of plastic pollution. This initiative aims to create a more sustainable campus environment that reduces waste and enhances environmental health. Key actions include expanding environmental awareness campaigns, incorporating training



Sustainability Report 2024

sessions on transitioning to eco-friendly alternatives, and collaborating with suppliers to ensure access to sustainable options over single-use plastics. Regular surveys are conducted to monitor compliance with plastic reduction efforts in colleges and departments, with feedback provided to support continuous improvement. These efforts collectively reinforce the University's commitment to reducing plastic waste and promoting responsible consumption practices.

12.5. Disposable Item Use Minimisation (Disposable Item Reduction on Campus)

The University is dedicated to minimizing the use of disposable items on campus by promoting sustainable alternatives and encouraging the adoption of reusable products. This commitment aims to reduce waste generated from single-use items and cultivate a culture of sustainable consumption among students, faculty, and staff. Key initiatives include expanding awareness programs that highlight the importance of reducing single-use items, working with campus vendors to provide reusable products at competitive prices, and developing training programs for faculty and staff on best practices in waste reduction and sustainability. These actions support an eco-friendlier campus environment and reinforce responsible consumption practices.

12.6. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Ethical Sourcing Compliance	89%	91%	94%
2.	Hazardous Waste Safety Rate	95%	97%	100%
3.	Waste Recycled	90%	92%	95%
4.	Plastic Consumption Reduction	93%	95%	98%
5.	Reusable Products on Campus	91%	93%	96%
6.	Consumption Awareness Initiatives	90%	92%	95%

12.7. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	University Launches Sustainable Product Campaign to Reduce Plastic Use	GO
2.	Vice President Launches Zero-Waste Initiative to Promote Sustainability	GO
3.	University Hosts Workshop on Sustainable Resource Management	GO
4.	University Implements Green Procurement Policy to Promote Sustainability	GO
5.	University Launches Research Initiative on Circular Economy	GO

12.8. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Unlocking corporate social responsibility and environmental performance: Mediating role of green strategy, innovation, and leadership	GO
2.	Artificial intelligence-based prediction of hydrogen adsorption in various kerogen types: Implications for underground hydrogen storage and cleaner production	GO
3.	Understanding continuous use intention of technology among higher education teachers in emerging economy: evidence from integrated TAM, TPACK, and UTAUT model	GO
4.	Industry 4.0 technologies and circular economy synergies: Enhancing corporate sustainability through sustainable supply chain integration and flexibility	GO



Sustainability Report 2024

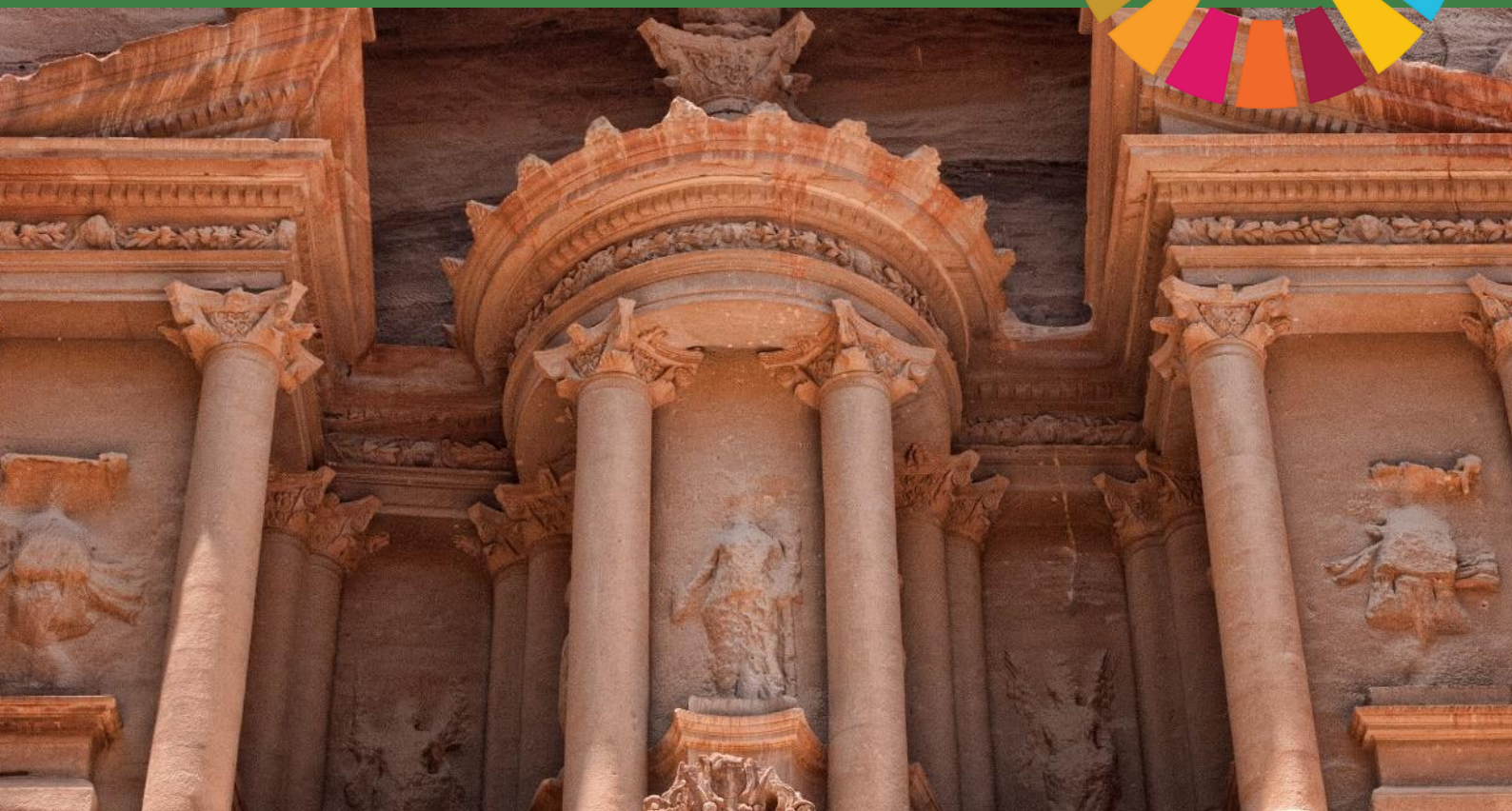
5.	The role of social media marketing and marketing management promoting and developing brand sustainability strategy	GO
6.	Multi-criteria sustainability assessment of solid waste management in Jordan	GO
7.	Enhancing employee sustainability through employee quality of life: the role of top management support	GO
8.	Societal sustainability consciousness and its influence on corporate responsibility uptake in Jordan's business sector	GO
9.	Leveraging BIM for Sustainable Construction: Benefits, Barriers, and Best Practices	GO
10.	Sustainable Marine and Coastal Tourism: A Catalyst for Blue Economic Expansion in Sri Lanka	GO

12.9. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Ministry of Environment	GO
2.	Ibrahim Jazr company	GO
3.	Jocycle company	GO
4.	Issa qawwas company	GO
5.	UNEP	GO



13 CLIMATE ACTION





13. Climate Action

13.1. Low Carbon Energy Use

(Low Carbon Energy Measurement)

The University is dedicated to increasing the use of low-carbon energy on campus to reduce carbon emissions and improve energy efficiency, supporting sustainable development and minimizing environmental impact. This commitment includes actively measuring and tracking low-carbon energy usage to ensure effective implementation of energy-efficient practices across campus. By incorporating renewable energy sources and optimizing energy systems, the University aims to foster an eco-friendly environment that aligns with global sustainability goals. These efforts contribute significantly to reducing the University's carbon footprint and advancing its role in promoting responsible energy use.

13.2. Climate Change Education

(Climate Change Education Campaigns, Community and Government Climate Action Planning)

The University is committed to enhancing education and awareness around climate change by offering targeted educational programs and campaigns that benefit both the university and the broader community. This initiative aims to increase understanding of environmental risks, promote adaptation to climate change impacts, and foster the development of sustainable solutions. Key actions include collaborating with government entities and non-profit organizations to conduct joint workshops, refining educational content to incorporate the latest climate change research, and extending awareness campaigns to surrounding communities. Through these efforts, the University actively supports climate resilience and empowers individuals to participate in meaningful climate action planning.

13.3. Carbon Neutrality Target

(Carbon Neutrality Target Implementation, Emissions Reduction and Clean Energy Initiatives Procedure)

The University is committed to achieving carbon neutrality by reducing emissions and promoting clean, sustainable energy sources through integrated strategies and innovative initiatives. This commitment includes a clear timeline and actionable steps to reach carbon neutrality goals. Key initiatives involve strengthening partnerships with clean energy organizations for technical support on emission-reducing technologies, conducting workshops to raise awareness about carbon neutrality within the university community, and implementing advanced technologies aimed at minimizing emissions. Efforts such as improving building energy efficiency and utilizing renewable energy sources reinforce the University's dedication to a sustainable future and meeting its carbon neutrality target.

13.4. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Low-Carbon Energy Use	93%	95%	98%
2.	Climate Education Programs	89%	91%	94%
3.	Climate Action Partnerships	88%	90%	93%
4.	Carbon Neutrality Target - 2027	93%	95%	98%
5.	Emission Reduction Rate	91%	93%	96%
6.	Clean Energy Initiatives	94%	96%	99%



13.5. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	AAU Participates in the Artificial Intelligence Conference on the Water, Energy, Food, and Environment Nexus	GO
2.	Greater Salt Municipality thanks Al-Ahliyya Amman University	GO
3.	Advancing Environmental Solutions: Dean's Contribution to Climate Change Workshop	GO
4.	AAU Participates in the Artificial Intelligence Conference on the Water, Energy, Food, and Environment Nexus	GO
5.	Greater Salt Municipality thanks Al-Ahliyya Amman University	GO
6.	Al Ahliyya Amman University Launches Climate Change Awareness Campaign	GO
7.	Al Ahliyya Amman University President Launches Carbon Footprint Assessment Initiative	GO

13.6. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Unlocking corporate social responsibility and environmental performance: Mediating role of green strategy, innovation, and leadership	GO
2.	Exploring the Nexus between Fintech, natural resources, urbanization, and environment sustainability in China: A QARDL study	GO
3.	Optimizing grid-connected PV systems with novel super-twisting sliding mode controllers for real-time power management	GO
4.	Green banking practices and environmental performance: navigating sustainability in banks	GO
5.	Hybrid genetic algorithm-simulated annealing based electric vehicle charging station placement for optimizing distribution network resilience	GO
6.	An optimal task scheduling method in IoT-Fog-Cloud network using multi-objective moth-flame algorithm	GO
7.	Enhancing Ethiopian power distribution with novel hybrid renewable energy systems for sustainable reliability and cost efficiency	GO
8.	Electric vehicle charging technologies, infrastructure expansion, grid integration strategies, and their role in promoting sustainable e-mobility	GO
9.	Selection of electric bus models using 2-tuple linguistic T-spherical fuzzy-based decision-making model	GO
10.	Optimal sizing and location of grid-interfaced PV, PHES, and ultra capacitor systems to replace LFO and HFO based power generations	GO

13.7. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Ministry of Environment	GO
2.	Jordan Environment Society	GO
3.	Civil Society Organizations	GO
4.	JCCAP	GO
5.	Royal Scientific Society RSS	GO



14 LIFE BELOW WATER





14. Life Below Water

14.1. Aquatic Ecosystems Education Support

(Fresh-Water Ecosystems Education Outreach, Sustainable Fisheries and Aquatic Tourism Awareness)

The University is dedicated to promoting the importance of aquatic ecosystems through comprehensive education and outreach initiatives. This commitment supports the conservation of freshwater ecosystems and advocates for sustainable fishing practices by engaging both the university and local community. Key initiatives include launching regular awareness campaigns that highlight the need to protect aquatic environments, expanding educational programs and workshops for students and community members on ecosystem conservation, and fostering partnerships with government and non-profit organizations to enhance collaborative environmental sustainability projects. These efforts not only raise awareness but also encourage responsible practices around sustainable fisheries and aquatic tourism, reinforcing the University's role in environmental stewardship.

14.2. Aquatic Ecosystems Conservation Action

(Marine Resource Conservation Events, Aquatic Ecosystems Protection Research and Development)

The University is committed to the conservation and sustainability of aquatic ecosystems through targeted initiatives that protect water resources and implement best practices for safeguarding threatened aquatic systems. Key actions include establishing partnerships with government agencies dedicated to environmental and water resource protection to align university policies with broader national and local strategies. Additionally, the University encourages faculty and researchers to collaborate with international and local institutions on water resource protection projects, offering research grants for innovative studies in this area. Academic programs are also being developed to focus on the sustainability and conservation of aquatic ecosystems, providing students with practical learning through field visits and case studies. These efforts support marine resource conservation and advance research in aquatic ecosystem protection.

14.3. Marine Resources Sustainability and Waste Disposal

(Water Quality Standards for Waste Discharge, Plastic Waste Reduction Action Plan, Sustainable Aquatic Food Sourcing)

The University is dedicated to promoting sustainable practices in marine resource management and reducing marine pollution, implementing strict environmental standards to protect water quality and minimize waste, particularly plastic. This commitment supports the sustainable use of water resources and fosters awareness of the importance of aquatic ecosystem preservation. Key initiatives include organizing field trips to environmentally significant marine and aquatic areas for students and staff, strengthening partnerships with environmental organizations and NGOs to conduct community awareness campaigns on marine protection, and collaborating with local tourism institutions to establish sustainable tourism standards that aid in marine conservation. Additionally, the University actively promotes plastic waste reduction and sustainable aquatic food sourcing, ensuring a responsible approach to marine resource sustainability.



14.4. Local Aquatic Ecosystems Stewardship

(Aquatic Ecosystems Health Monitoring, Watershed Management and Community Collaboration)

The University is committed to protecting and ensuring the sustainability of local aquatic ecosystems through comprehensive programs focused on monitoring environmental health and regularly assessing ecosystem status. This commitment also includes fostering partnerships with the local community for effective watershed management, supporting biodiversity conservation and sustainable water resource use. Key initiatives involve collaboration with local and international organizations specializing in aquatic ecosystem protection to gain scientific insights and develop innovative sustainability programs. Additionally, the University integrates water sustainability education and training into its curriculum, preparing students to contribute to ecosystem protection. Advanced scientific research on water protection technologies and biodiversity conservation is encouraged, with grants and incentives available for researchers and students working on sustainable solutions to address aquatic ecosystem challenges. These actions strengthen the University's role in aquatic ecosystem stewardship and long-term environmental health.

14.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Freshwater Education Programs	91%	93%	96%
2.	Fisheries Awareness Events	87%	89%	92%
3.	Marine Conservation Events	86%	88%	91%
4.	Water Quality Compliance	95%	97%	100%
5.	Sustainable Aquatic Food Rate	91%	93%	96%
6.	Watershed Projects with Communities	89%	91%	94%

14.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	University Launches Marine Conservation Workshops to Promote Ocean Protection	GO
2.	University Hosts Beach Cleanup at Aqaba Sea to Support Marine Conservation Efforts	GO
3.	University Launches Research Initiative on Marine Ecosystem Preservation	GO
4.	University Partners with Marine NGOs to Advance Ocean Conservation	GO
5.	University Launches Sustainable Fishing Practices Awareness Campaign	GO

14.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Preliminary Investigation of Bioaccumulation of Microcystins in Hypereutrophic Irrigation Ponds Case Study – the Jordan Valley	GO
2.	Sustainable Marine and Coastal Tourism: A Catalyst for Blue Economic Expansion in Sri Lanka	GO
3.	Leveraging Aquaculture and Mariculture for Sustainable Economic Growth in Sri Lanka: Challenges and Opportunities	GO
4.	Carbon dioxide emission evaluation of biochar based vegetation concrete for ecological restoration projects	GO



14.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Royal Marine Conservation Society of Jordan (JREDS)	GO
2.	United Nations Environment Programme	GO
3.	The ROYAL MARINE CONSERVATION SOCIETY OF JORDAN - JREDS	GO
4.	Minister of Environment	GO
5.	Aqaba marine park	GO



15 LIFE ON LAND





15. Life On Land

15.1. Sustainable Campus Food Farming

(Campus Sustainable Food Farming Practices Monitoring)

The University is dedicated to promoting sustainable food farming on campus, implementing environmentally responsible practices that support biodiversity and minimize ecological impact. By adhering to recognized environmental standards, the University contributes to sustainable food production and natural resource conservation. Key initiatives include conducting specialized workshops for students and staff to raise awareness of sustainable farming's environmental benefits, expanding designated areas on campus for sustainable farming, and collaborating with external specialists to adopt best practices. Monitoring systems ensure the effectiveness of these practices, reinforcing the University's commitment to sustainability in food farming and ecological stewardship.

15.2. Terrestrial Ecosystems Conservation and Restoration

(University Terrestrial Ecosystems Restoration, Sustainable Land Ecosystems

Education Programme Delivery)

The University is dedicated to the conservation and restoration of terrestrial ecosystems through comprehensive programs designed to protect and rejuvenate natural environments both within and around the campus. These initiatives focus on sustainable management of forests and agricultural lands, enhancing biodiversity, and ensuring ecosystem sustainability for future generations. Key actions include increasing collaboration with local and international environmental organizations to support restoration projects, implementing monitoring mechanisms to assess ecosystem health regularly, and encouraging the use of modern technology in restoration efforts and sustainable land management. Additionally, the University integrates these practices into its educational programs, providing students with knowledge and skills in sustainable land ecosystem management. These efforts reinforce the University's commitment to terrestrial ecosystem stewardship and environmental sustainability.

15.3. International Union for Conservation of Nature [IUCN] Red List Species Protection

(Threatened Species Monitoring and Protection)

The University is dedicated to the protection of threatened species listed on the IUCN Red List, ensuring the sustainability of their natural habitats in areas related to the campus. This commitment supports biodiversity conservation through the application of rigorous sustainability standards and adherence to the requirements set by the International Union for Conservation of Nature (IUCN). Key initiatives include implementing specialized training programs to raise awareness about the importance of conserving threatened species, developing a comprehensive management plan for natural areas on campus to safeguard biodiversity, and strengthening partnerships with environmental organizations to bolster local and international conservation efforts. Through these measures, the University plays a proactive role in the monitoring and protection of vulnerable species and their ecosystems.



15.4. Alien Species Impact Reduction (Alien Species Control and Eradication)

The University is committed to minimizing the negative impact of alien species on the campus environment through dedicated policies and procedures designed to control their spread and protect local biodiversity. This approach includes specialized awareness programs for students and staff to educate them on the environmental risks associated with alien species and the importance of managing their presence. Regular monitoring procedures are in place to detect and swiftly address any occurrences of alien species on campus. Additionally, the University collaborates with environmental organizations to conduct joint research on effective impact and control methods, reinforcing its role in safeguarding campus ecosystems and supporting local biodiversity.

15.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Sustainable Campus-Grown Food	93%	95%	98%
2.	Restored Ecosystem Areas	91%	93%	96%
3.	Ecosystem Education Programs	89%	91%	94%
4.	Sustainable Land Management Programs	87%	89%	92%
5.	IUCN Standards Compliance	90%	92%	95%
6.	Alien Species Impact Reduction	94%	96%	99%

15.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Dean of Architecture and Design Speaks at Petra University's Scientific Day	GO
2.	EU GREEN Blended Intensive Programmes (BIPs)	GO
3.	International Scientific Conference On Plant Biodiversity & Sustainability	GO
4.	MoU Between Al-Ahliyya Amman University and the Arab Agriculture Forum	GO
5.	Faculty of Agricultural Technology Participates in Workshop on "The Reality and Future of University Agricultural Education" at the Agricultural Engineers Association	GO
6.	Students from the Faculty of Agricultural Technology Visit Ajloun Reserve	GO

15.7. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Augmented weighted K-means grey wolf optimizer: An enhanced metaheuristic algorithm for data clustering problems	GO
2.	Artificial intelligence-based prediction of hydrogen adsorption in various kerogen types: Implications for underground hydrogen storage and cleaner production	GO
3.	Identification of Oil Degrading Bacteria from Oil-Contaminated Soil in the Northeastern Part of Jordan	GO
4.	Dynamic interactions in a two-species model of the mammalian predator–prey system: The influence of Allee effects, prey refuge, water resources, and moonlights	GO
5.	Sustainable Marine and Coastal Tourism: A Catalyst for Blue Economic Expansion in Sri Lanka	GO



Sustainability Report 2024

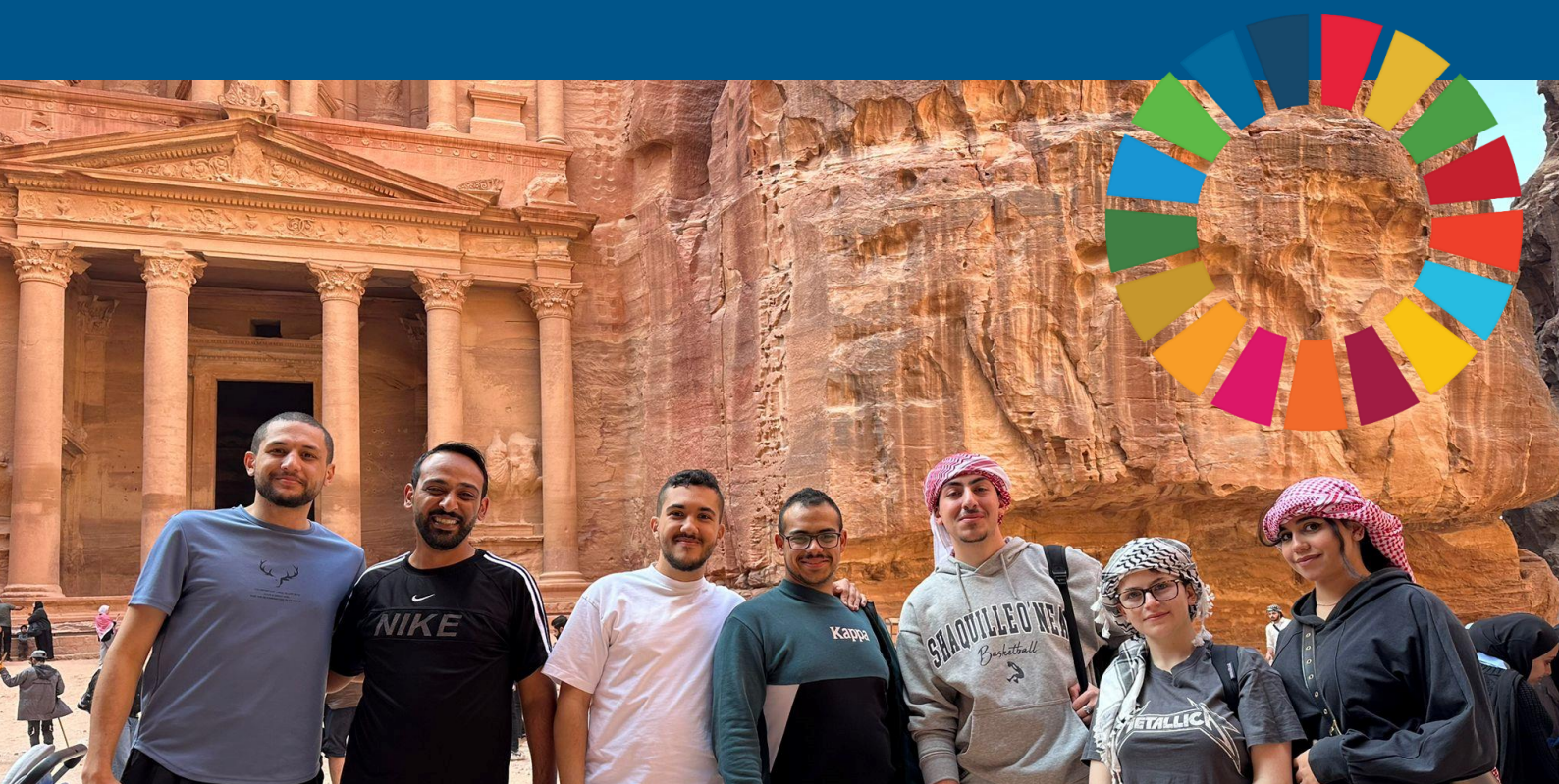
6.	Antioxidant Activity and UHPLC-MS/MS Characterization of Polyphenol and Nicotine Content in Nicotiana Glauca Leaf Extracts: A Comparative Study of Conventional and Deep Eutectic Solvent Extraction Methods	GO
7.	Evaluating machine learning performance in predicting sodium adsorption ratio for sustainable soil-water management in the eastern Mediterranean	GO
8.	Cryopreservation of Arum palaestinum plant callus as a strategy for mitigating extinction risks	GO
9.	Carbon dioxide emission evaluation of biochar based vegetation concrete for ecological restoration projects	GO

15.8. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Jordan GBC	GO
2.	Arab Agriculture Forum	GO
3.	National Agricultural Research Center	GO
4.	The Royal Society For The Conservation of Nature	GO
5.	Ministry of Environment	GO



16 PEACE, JUSTICE AND STRONG INSTITUTIONS





16. Peace, Justice and Strong Institutions

16.1. University Governance Representation

(University Governance Representation Selection)

The University is committed to fostering inclusive governance by ensuring structured representation of diverse university community members within the highest administrative body. This policy supports effective and democratic participation in decision-making processes that shape the university's future, establishing clear mechanisms for electing representatives from students, faculty, and staff. To reinforce this commitment, the University enhances awareness programs to encourage participation in representation elections, offers targeted support to encourage women and students to run for positions, and regularly reviews election procedures to ensure transparency and trust in the process.

16.2. Transparency and Anti-Corruption

(University Financial Data Publication, Anti-Corruption and Organized Crime Compliance Review)

The University is committed to upholding the highest standards of transparency and integrity across all academic and administrative activities to prevent corruption and organized crime. This commitment ensures accountability and credibility by regularly publishing financial data and enforcing strict policies that monitor compliance with transparency and anti-corruption standards. Key actions include developing training programs to instill a strong culture of transparency and integrity among employees, establishing secure reporting channels for corruption cases with protections for whistleblowers, and continually enhancing internal controls to ensure adherence to transparency standards.

16.3. Academic Freedom Support

(Academic Freedom Compliance Review)

The University is committed to upholding academic freedom by providing a supportive environment that enables faculty members and students to freely select their research and teaching fields, express their opinions, and share innovative ideas. This policy fosters academic independence and encourages intellectual exploration. Key initiatives include developing mechanisms to receive and address complaints related to restrictions on academic freedom, conducting workshops to raise awareness among faculty and students about their rights and responsibilities under academic freedom, and regularly reviewing university policies to ensure alignment with internationally recognized principles.

16.4. Local Stakeholder Engagement

(Local Stakeholders Identification and Engagement)

The University is committed to fostering effective collaboration with local stakeholders by implementing mechanisms that ensure their identification and meaningful participation in decision-making processes with a community impact. This approach aims to build sustainable partnerships that align with the aspirations of both the University and the local community. Key initiatives include updating and refining engagement mechanisms to enhance stakeholder involvement in University decisions, organizing specialized training programs and workshops to help stakeholders understand their roles in these processes, and establishing a digital platform for continuous communication. This platform keeps local stakeholders informed and connected, reinforcing the University's commitment to active community collaboration and shared growth.



16.5. Government Collaboration

(Government Expert Consultation, Neutral Platform for Political Dialogue)

The University is dedicated to strengthening collaboration with government entities to advance sustainable development goals through specialized academic consultations, contributions to policy development, and joint research initiatives. This commitment facilitates partnerships that drive impactful progress on sustainability. Key initiatives include enhancing follow-up and evaluation mechanisms to ensure successful outcomes from government partnerships, increasing joint events and platforms for discussing critical development issues, and allocating additional resources to support research and consultation teams. By establishing a neutral platform for political dialogue and expert consultation, the University plays a pivotal role in bridging academic expertise with governmental efforts toward sustainable development.

16.6. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	Student Governance Participation	93%	95%	98%
2.	Financial Transparency Compliance	95%	97%	100%
3.	Academic Freedom Policy Compliance	95%	97%	100%
4.	Local Stakeholder Participation	93%	95%	98%
5.	Joint Meetings with Stakeholders	92%	94%	97%
6.	Expert Consultations to Government	89%	91%	94%

16.7. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	Awareness lecture entitled: "National Integrity Standards and the Importance of Combating Corruption for Academics, Administrators and Students	GO
2.	AAU Organizes an Awareness Lecture Titled "National Integrity Standards and the Importance of Combating Corruption for Academics, Administrators, and Students"	GO
3.	AAU Board of Trustees Approves the Formation of the Deans' Council for the 2024/2025 Academic Year	GO
4.	Seminar on Human Rights and the Aggression on Gaza Strip at AAU	GO
5.	Seminar on Cybercrimes within the 911 Ambassadors Program at AAU	GO
6.	Launching of the 11th Scientific Research Conference in cooperation between the Jordanian Society for Scientific Research and Amman Ahliyya	GO

16.8. SDG Scientific Research (2023)

SN	Article Name	Link
1.	Impact Of User Satisfaction With E-Government Services On Continuance Use Intention And Citizen Trust Using Tam-Issm Framework	GO
2.	The role of social media marketing and marketing management promoting and developing brand sustainability strategy	GO
3.	Enhancing Najran's sustainable smart city development in the face of urbanization challenges in Saudi- Arabia	GO
4.	The Social Impact of Dental Implant Research: an Altmetric Analysis	GO
5.	The Historical Development of Armed Terrorism and Its Movement and Effects on the Hashemite Kingdom of Jordan from 1989 to 2019	GO



Sustainability Report 2024

6.	The Relationship Between E-Government Effectiveness And E-Government Use: The Mediating Effect Of Online Trust And The Moderating Effect Of Habit	GO
7.	Digital Human Rights in Jordanan Legislation and International Agreement	GO
8.	The role of virtue ethics in enhancing reputation through combatting financial crimes	GO
9.	The Effectiveness of a Cognitive Supervision Program in Improving Counseling Skills and Reducing Performance Anxiety among Trainee Counselors in Counseling Programs for Abused Women. Qualitative Study	GO

16.9. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	RENEW MENA	GO
2.	Jordan Society for Scientific Research	GO
3.	National Agricultural Research Center	GO
4.	Social Security Corporation (government institution)	GO
5.	National Cyber Security Center	GO
	National Center for Security and Crisis Management	GO



17 PARTNERSHIPS FOR THE GOALS



American
Heart
Association®



17. Partnerships for the Goals

17.1. Participation in SDG Development strategies

(Participation in SDG Policy and Strategy Development, Reporting on SDG Issues and Challenges)

The University is dedicated to actively participating with key stakeholders in the development of Sustainable Development Goals (SDG) policies and strategies at both national and regional levels. This engagement includes sharing knowledge, offering insights, and contributing expertise to address challenges and opportunities associated with SDG achievement. To enhance these efforts, the University strengthens partnerships with national and international institutions to expand specialized research on SDG implementation. An electronic platform has been developed to publish SDG-related reports and studies produced by the University, ensuring accessible and transparent information sharing. Additionally, regular workshops are provided for faculty, students, the local community, and partners to deepen their understanding of the SDGs and the University's role in supporting these goals, reinforcing its commitment to impactful SDG participation and policy development.

17.2. International Collaboration for SDG Data Collection

(International SDG Data Collection Collaboration)

The University is committed to advancing international collaboration in data collection and analysis related to Sustainable Development Goals (SDGs) by participating in global initiatives and projects that drive progress toward these goals. Leveraging its resources and expertise, the University contributes to the development of evidence-based solutions for sustainable development. Key initiatives include providing specialized training and ongoing support for academic and administrative departments to engage effectively in international data projects, establishing an electronic platform to facilitate data and expertise exchange with global partners, and forming dedicated task forces to contribute to international studies and initiatives in SDG-related data collection and analysis. Through these efforts, the University strengthens its role in global SDG collaboration and impact.

17.3. SDG Progress Reporting and Publication

(SDG Progress Reporting)

The University is committed to enhancing transparency and accountability by preparing and publishing comprehensive reports on its progress toward achieving Sustainable Development Goals (SDGs). These reports document the University's contributions to sustainable development at local, national, and international levels, raising awareness of its impact. Key actions include regularly updating and publishing accessible progress reports on the University's website, expanding distribution to reach external entities and partners, and organizing workshops to educate the university community on the importance of these reports in supporting SDG efforts. Through these initiatives, the University reinforces its commitment to transparent SDG reporting and active engagement with stakeholders.



17.4. SDG Education and Sustainability Culture Development

(SDG and Sustainability Courses, Community SDG Educational Outreach, University community Sustainability Culture Measurement)

The University is committed to fostering a deep understanding of Sustainable Development Goals (SDGs) and cultivating a culture of sustainability within and beyond the campus community. This commitment includes developing educational and outreach programs that focus on SDGs, increasing knowledge of sustainability concepts, and encouraging sustainable practices among students, faculty, staff, and the local community. Key initiatives involve expanding partnerships with local and international institutions to exchange expertise and develop sustainability-focused academic courses, organizing conferences and workshops that address SDG topics and feature international experts, and utilizing digital technology to enhance environmental awareness through applications and educational platforms. These efforts contribute to a robust culture of sustainability, empowering the University community and surrounding region to actively support and advance SDG goals.

17.5. Strategic Key Performance Indicators (KPIs)

SN	KPI	2021/2022	2022/2023	2023/2024
1.	National/Regional SDG Meetings	93%	95%	98%
2.	International Data Projects	93%	95%	98%
3.	Progress Reports Published	95%	97%	100%
4.	SDG Courses Offered	94%	96%	99%
5.	Sustainability Outreach Activities	94%	96%	99%
6.	Sustainability Knowledge Rate	91%	93%	96%

17.6. Activities and initiatives achieved (2023/2024)

SN	Activities / Initiatives	Link
1.	AAU Inks MOU with An-Najah National University of Palestine	GO
2.	Memorandum of Understanding between AAU and Pearson Education, UK	GO
3.	AAU Hosts a Delegation from the University of Twente and AgriWatch	GO
4.	MoU Between Al-Ahliyya Amman University and Al-Hussein Technical University	GO
5.	MoU Between Al-Ahliyya Amman University and the Arab Agriculture Forum	GO
6.	AAU Signs Cooperation Agreement with Roya Academy for Media Training to Offer Accredited Courses and Diplomas	GO
7.	New Collaboration: Al Ahliyya Amman University and Four Seasons Hotel Sign Agreement to Boost Student Training in Hospitality Management	GO
8.	MoU Between Jordan Ahli Bank and AAU to Develop Students' Skills in Innovation and FinTech	GO
9.	MoU between Al-Ahliyya Amman University and the French Institute in Amman	GO
10.	MoU Between AAU and Al-Manar Media Production Company – CYBERX	GO



17.7. SDG Partnerships (2023/2024)

SN	Partner Name	Link
1.	Ministry of Health	GO
2.	Royal Health Awareness Society	GO
3.	American Heart Association	GO
4.	International Scientific Conference On Plant Biodiversity & Sustainability	GO
5.	University Schools Group	GO



What's Next?

AAU aims to further its sustainability agenda by focusing on:

AAU is committed to building on its sustainability achievements by taking bold steps toward future goals. Key focus areas include achieving carbon neutrality by 2027 through expanded use of renewable energy and enhanced emission reduction measures. The university also plans to

integrate sustainability more deeply into its curriculum, equipping students with the skills and knowledge to address global challenges. Strengthening global partnerships will remain a priority, enabling AAU to share its expertise, collaborate on groundbreaking research, and adopt best practices from around the world.

In addition, AAU aims to expand its community outreach initiatives to empower underrepresented groups, support local economies, and advance social equity. Efforts will also focus on enhancing transparency and accountability through improved systems for tracking and reporting sustainability progress. By pursuing these ambitious goals, AAU reaffirms its dedication to driving innovation, fostering inclusivity, and leading the way toward a sustainable future for all.

Better together.....

