

# MUTAH UNIVERSITY

Working toward a sustainable future



## SUSTAINABILITY REPORT

2022



## Foreword

Mutah University, Jordan's distinguished third public university located in Southern Jordan, shines as an exemplar of education, sustainability, and community involvement. Recognized for its steadfast commitment to environmental stewardship, the university proudly houses the largest solar panel installation in the region, signifying its devotion to clean energy and climate action. Furthermore, Mutah University hosts a state-of-the-art research center dedicated to clean energy and water resources, driving innovations in the battle against climate change. Within this report, we delve into the core of Mutah University's sustainable initiatives, highlighting its academic excellence, community partnerships, and pioneering contributions to environmental preservation. Join us as we explore how Mutah University transcends its role as a mere educational institution, emerging as a catalyst for a sustainable future and embodying the ideals of progress and responsibility in every endeavor.

**Prof. Salameh S. AL Naimat**  
President of the University



# Mutah University: Pioneering Sustainable Innovation in Southern Jordan





# Sustainability at Mutah University

In today's rapidly changing world, the pursuit of sustainability has become more crucial than ever. As we face complex global challenges, it is imperative for educational institutions to take the lead in promoting sustainable practices and fostering a sense of responsibility towards the planet and its inhabitants. At Mutah University, we have embraced this responsibility wholeheartedly, aligning our efforts with the United Nations' 17 Sustainable Development Goals (SDGs) to contribute meaningfully to a sustainable future for all.

Mutah University is deeply committed to advancing the 17 SDGs set forth by the United Nations. Our dedication is not only rooted in global citizenship but also aligns with the national strategic planning, reinforcing Jordan's commitment to the 2030 Agenda for Sustainable Development. We believe that education is the cornerstone of sustainable development, empowering future generations with the knowledge and skills necessary to address the world's most pressing challenges.

To ensure the integration of SDGs into the fabric of our university, Mutah University has introduced comprehensive evaluation tools. These tools serve as a beacon, guiding our faculties and units in their journey toward achieving the SDGs. We have implemented innovative solutions, such as the online tool [<https://forms.office.com/r/e5J99wjcXQ>], designed to collect responses from deans and directors. This tool enables them to share their perceptions of SDGs and document their achievements. By encouraging transparency and accountability, this initiative promotes a culture of continuous improvement and shared responsibility.

Mutah University takes immense pride in its significant achievements in the realm of sustainable development. According to THE Impact Rankings, Mutah University achieved a remarkable 58<sup>th</sup> rank worldwide in SDG7: Clean Energy. This recognition not only showcases our dedication to sustainable energy practices but also underscores our commitment to making a substantial impact on a global scale.

Furthermore, in the 2022 THE Rankings, Mutah University was honored to be among the top 100 institutions worldwide in SDG16: Peace, Justice, and Strong Institutions. This acknowledgment highlights our continuous efforts in promoting peace, justice, and effective governance, aligning our goals with the global vision for a more just and equitable society.

In the following pages, this sustainability report will provide a detailed account of Mutah University's initiatives, progress, and impact in advancing the SDGs. Together, as a community dedicated to creating positive change, we will continue our journey toward a sustainable, equitable, and prosperous future for all.

# Empowering Change

## Mutah University's Pioneering Contributions to SDGs through Scientific Research

During the transformative period from 2020 to 2022, Mutah University emerged as a formidable force in advancing the United Nations' Sustainable Development Goals (SDGs) through its rigorous research and scholarly pursuits, as evidenced by its Scopus-indexed publications. In the fight against poverty (SDG 1), the university's 7 Scopus-indexed publications garnered 31 citations, reflecting a significant impact in addressing economic disparities. Similarly, in the pursuit of eradicating hunger (SDG 2), Mutah University's 10 Scopus-indexed publications amassed 139 citations, emphasizing the importance of agricultural innovation and food security initiatives.

The university's contributions extended to SDG 3, 'Good Health and Well-being,' with 202 Scopus-indexed publications and 1,719 citations, illuminating pathways for enhancing healthcare, disease prevention, and public health policies. In the realm of education (SDG 4), Mutah University's 25 Scopus-indexed publications with an outstanding citation impact of 4.86 showcased its dedication to providing quality education, ensuring inclusive and equitable learning opportunities for all.

Gender equality (SDG 5) found a champion in Mutah University, with 11 Scopus-indexed publications generating 55 citations, promoting research on gender disparities and empowering women and girls. The university's focus on clean water and sanitation (SDG 6) was evident through 33 Scopus-indexed publications and 367 citations, advocating for sustainable water management and improved sanitation facilities.

Energy sustainability (SDG 7) was a key focus, with 86 Scopus-indexed publications amassing 877 citations, emphasizing the importance of clean and affordable energy sources. Decent work and economic growth (SDG 8) were fostered through 24 Scopus-indexed publications, promoting economic development and fair employment practices.

Reducing inequalities (SDG 10) was addressed through 17 Scopus-indexed publications, supported by 129 citations, focusing on bridging societal gaps and promoting social inclusion. Sustainable cities and communities (SDG 11) benefited from 22 Scopus-indexed publications, advocating for urban planning, environmental conservation, and resilient infrastructures.

Mutah University's emphasis on responsible consumption and production (SDG 12) was evident in 27 Scopus-indexed publications, promoting eco-friendly practices and sustainable resource utilization. Climate action (SDG 13) saw 15 Scopus-indexed publications urging urgent measures to combat climate change, supported by 155 citations.

In preserving life below water (SDG 14), 3 Scopus-indexed publications highlighted marine conservation efforts, and in safeguarding life on land (SDG 15), 9 Scopus-indexed publications advocated for biodiversity conservation and sustainable land management.

Furthermore, the university significantly contributed to SDG 16, 'Peace, Justice, and Strong Institutions,' with 22 Scopus-indexed publications and 180 citations, promoting the rule of law, accountable governance, and social justice.

Mutah University's Scopus-indexed publications underscore its dedication to creating a harmonious, equitable, and prosperous world, solidifying its position as a leading institution in sustainable development research and innovation.

SDG	Scholarly Output	Field-Weighted Citation Impact	Citation Count
SDG 1: No Poverty	7	2.61	31
SDG 2: Zero Hunger	10	1.31	139
SDG 3: Good Health and Well-being	202	1.97	1,719
SDG 4: Quality Education	25	4.86	409
SDG 5: Gender Equality	11	0.74	55
SDG 6: Clean Water and Sanitation	33	1.22	367
SDG 7: Affordable and Clean Energy	86	1.74	877
SDG 8: Decent Work and Economic Growth	24	2.05	275
SDG 9: Industry, Innovation and Infrastructure	29	2.06	322
SDG 10: Reduced Inequality	17	1.47	129
SDG 11: Sustainable Cities and Communities	22	1.26	96
SDG 12: Responsible Consumption and Production	27	1.59	207
SDG 13: Climate Action	15	1.28	155
SDG 14: Life Below Water	3	0.53	7
SDG 15: Life on Land	9	2.53	99
SDG 16: Peace, Justice and Strong Institutions	22	2.02	180



# Sustainable Development Goals

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**1** NO  
POVERTY



**Eliminate  
Poverty,  
Empower  
Humanity!**



In previous years, Mutah University made substantial progress towards achieving SDG 1, which aims to eliminate poverty. Researchers at Mutah University conducted investigations into various poverty-related issues during the 2021/2022 academic year. They focused on financial inclusion, quality of life, and child labor, contributing to a deeper understanding of the challenges associated with poverty in the region. Notably, the Deanship of Student Affairs reported an increase in the proportion of students receiving financial aid due to poverty, demonstrating the university's commitment to supporting economically disadvantaged students.

#### **Together, we have the power to make a significant impact on the lives of those in need**

In 2022, Mutah University also embarked on several initiatives to enhance the capabilities of its stakeholders. Agreements were made with organizations such as the Professional and Technical Skills Development Authority and the Jordan Corporation for the Development of Economic Projects. These agreements aimed to provide training and skills development opportunities, fostering entrepreneurship and employability, particularly in response to the challenges posed by the COVID-19 pandemic.

#### **Bridging financial gaps by scholarships and grants**

The University continued its commitment to reducing poverty through a comprehensive financial aid program. These initiatives have included scholarships, educational loans, and grants. Scholarships encompass postgraduate scholarships, academic excellence scholarships, and research and innovation grants. These financial aid programs have helped reduce the financial burden on students, making higher education more accessible.

#### **Distributing clothes and aid to families in need**

Additionally, the Model School of Mutah University undertook a charitable winter campaign in 2022. Students from the Model School, along with university staff, distributed clothes and in-kind aid to families in need in the Ghor Al-Safi area. The initiative reflects the university's commitment to community service and instilling values of giving in its students.

#### **Charitable Initiative to support families in Jordan Valley**

Furthermore, the Former President of Mutah University, Prof. Arafat Awajan, sponsored a charitable initiative to provide food parcels to families in the southern Jordan Valley. This initiative was made possible through donations from students and employees of the university, highlighting the institution's dedication to promoting generosity and solidarity in the community.

Overall, Mutah University's efforts in 2022 demonstrate its unwavering commitment to achieving SDG 1 by addressing poverty, supporting economically disadvantaged students, and actively engaging in community service to make a positive impact on the lives of those in need.





## Sustainably Fed, Hunger Ends!



In 2022, the university's commitment to ending hunger, improving food security, and promoting sustainable agriculture remained unwavering, as it actively contributed to the global mission of addressing food-related challenges, building upon the substantial progress achieved in 2021.

### **Educational and research contributions to SDG2 in 2022**

In 2022, the proportion of agriculture and aquaculture graduates, which includes sustainability aspects, continued to grow. This sustained emphasis on sustainability underscores the university's dedication to fostering responsible agricultural practices that align with SDG 2 objectives.

According to Scopus data, the university also maintained its impressive momentum in contributing to knowledge creation and sharing in the field of food security. One example is a study led by Amani Al-Dawood and her team to assess students' attitudes and knowledge about pesticide residues in food. It revealed concerns about human health and food safety. While participants desired reduced pesticide use, their knowledge about related topics was moderate. Exposure through food consumption was highlighted, and interest in organic agriculture was noted in the study. Another study by Farah Al Nasir and Mufeed Batarseh, explored organic compound concentrations in soils irrigated with reclaimed wastewater from Mutah University's treatment plant. The research highlighted the complexity of agricultural water reuse and organic compound assimilation, essential for sustainable farming practices.

Furthermore, the university's support for projects related to reducing poverty and unemployment rates persisted. The financial sponsorship for the project titled "The Role of Cooperative Societies in Reducing Poverty and Unemployment Rates: A Case Study of Karak Governorate" exemplifies Mutah University's commitment to addressing the multifaceted challenges that intersect with food security and poverty reduction.

### **Further engagement in food security initiatives**

Throughout 2022, the University continued the collaborative approach established in 2021, by implementing its agreements with food production companies, such as Al Kaseeh for food production, aimed at enhancing the knowledge and skills of workers in the industry. This ongoing partnership underscores the university's commitment to improving food production processes and security through the dissemination of cutting-edge scientific and technological expertise.

Another example is the Faculty of Agriculture's scientific day on "Biodiversity in Livestock and Climate Change," held in December 2022, which served as a platform for discussions and research sharing, enriching the academic landscape and providing practical insights and solutions that contribute significantly to the objectives of SDG 2.

Mutah University's College of Agriculture also remained an active participant in events contributing to food security such as the International Festival of Dates, to share knowledge and best practices with the broader community.

## **Collaborations toward sustainable practices**

In addition to industry collaborations, Mutah University continued to engage with organizations dedicated to agricultural research and food security. A noteworthy example was the scientific workshop conducted in cooperation with the Association of Agricultural Research Institutions in the Near East and North Africa (ARINENA). This workshop focused on addressing food loss and waste while simultaneously enhancing the capabilities of workers in the fields of nutrition and agriculture. Such initiatives remain pivotal in promoting sustainable practices and ensuring that food security is upheld.

On July 26, 2022, when the Faculty of Engineering organized a scientific day, featuring presentations on water and environmental issues, agriculture, and food security. This event facilitated a productive dialogue between academics and researchers from Mutah University, Jordan, and the University of Florida, USA. The discussions not only highlighted the Faculty of Agriculture's role in addressing local agricultural challenges but also explored ways to strengthen collaborative relationships with Jordanian universities, further enhancing the university's research and academic capabilities.

On December 12, 2022, Mutah University forged a collaborative partnership agreement with Dar Abu Abdullah for Charitable Work. The agreement's core objective is the implementation of projects and studies aimed at enhancing economic feasibility on the ground, focusing on critical areas such as food security, poverty reduction, and unemployment alleviation. Moreover, the agreement emphasizes the empowerment of students from the Faculty of Agriculture through practical training and the creation of future employment prospects, directly addressing the goals outlined in SDG2.

## **On-campus catering facilities at reduced prices**

Mutah University realizes the importance of having access to affordable food for both its staff and students. To ensure that, the university has established a dedicated Administrative Supply and Food Unit aiming at providing quality and affordable food items to the university community. The Unit is responsible for sourcing, purchasing, and distributing food items across the university campus. Through this initiative, Mutah University aims to create an enabling environment that supports the academic and personal growth of the staff and students.



## **Activities against hunger at Mutah University**

Throughout the holy month of Ramadan, Mutah University organized regular Iftar gatherings for students from different faculties, fostering a sense of community and unity among students from diverse backgrounds and highlighting the importance of food security and availability amongst community. These events provided opportunities for cultural exchange and meaningful discussions about religion and spirituality, contributing to a more inclusive environment.

Also, the university actively supports and promotes small food production projects, encouraging entrepreneurship and local catering initiatives. This reflects the university's commitment to fostering economic empowerment and sustainable food production, aligning with SDG 2 goals.





## Healthy Lives, Thriving Futures!



In the years 2021-2022, Mutah University has taken significant steps to address the challenges outlined in SDG 3, ensuring healthy lives and promoting well-being for all.

### **Expanding healthcare education**

The university has proactively initiated transformative programs aimed at bridging the gap in healthcare services by introducing new educational programs. These initiatives include the launch of a postgraduate medical degree program, the approval for a dentistry program, and the establishment of the Faculty of Allied Medical Sciences, offering a program in respiratory care specialist. Furthermore, a Master of Pharmacy program was introduced in 2021-2022, reflecting the university's commitment to comprehensive education and addressing healthcare challenges in the community.

### **Promoting community health and supporting well-being**

Mutah University's commitment to enhancing community health extends beyond educational programs. In March 2022, the Deanship of Student Affairs, in collaboration with the community police, the blood bank, and the university health center, organized a blood donation campaign. This collaborative initiative exemplifies a shared effort to provide hospitals with crucial blood units from voluntary donors, showcasing the university's dedication to fostering participation, positivity, and shared responsibility among all involved parties. This endeavor aligns seamlessly with the university's broader commitment to Sustainable Development Goal 3, highlighting its holistic approach in promoting community well-being.

In August 2022, The Medical Genetics team (MED GEN) paid a visit to Dar Al-Zahra for the elderly, and the visit included medical check-ups and the presentation of symbolic gifts to the elderly, reflecting the institution's dedication to well-being, aligning with the goals of SDG 3.

In December 2022, a group of medical college students organized an awareness campaign, where they visited the pediatric department at the Karak Government Hospital and received explanations from their fellow resident doctors about the types of cases treated. They also distributed gifts to the children, contributing to promoting well-being and providing a positive impact on their health. This initiative reflects the commitment to raising awareness about healthcare and fostering a sense of community responsibility, aligning with the goals of SDG 3.

### **Research contribution to achieving good health and well-being**

Mutah University's dedication to SDG 3 is further evidenced by its substantial research output. Over the past five years, the university has demonstrated a remarkable increase in publications related to healthcare and well-being. The university's commitment to advancing healthcare research is reflected in this significant growth, with publications rising from 20 in 2017 to 67 in 2021. These publications signify Mutah University's proactive engagement with SDG 3, demonstrating its continuous efforts to contribute meaningfully to the global discourse on health and quality of life.

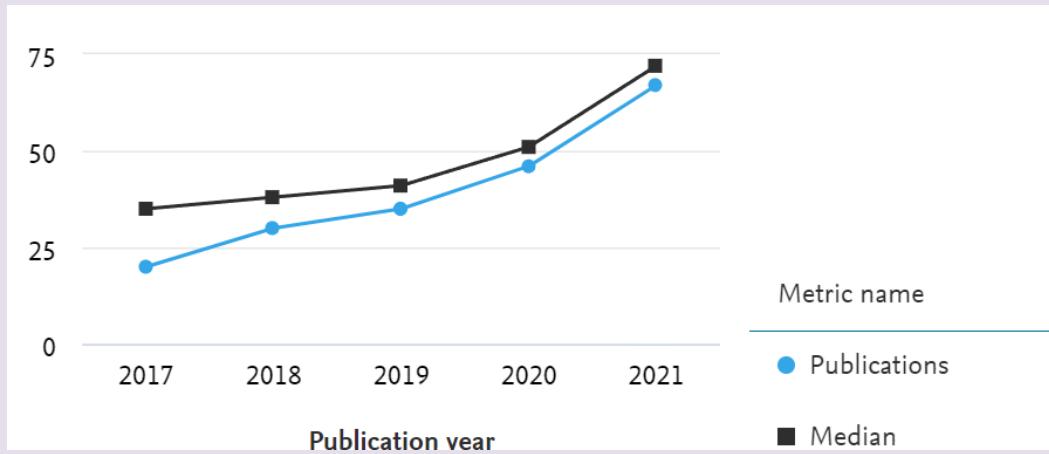
Faculty of medicine 

MODELS CONFERENCES ACHIEVEMENTS ACADEMIC PROGRAMS ▾ SECTIONS ▾ ABOUT THE COLLEGE ▾ MAIN CALL US IMPORTANT LINKS ▾

**Beginning of submitting applications for admission to higher specialization certificate programs in medicine for the academic year 2022/2023:: 04/13/2022**



Mutah University, through the Faculties of Medicine and Postgraduate Studies, established University President Dr. Arafaat Awajan said today, Wednesday, that this program, which will begin teaching in the academic year 2022/2023, aims to qualify and train doctors in the specialties of gynecology, obstetrics, internal medicine, general surgery, and pediatrics, in order to reach the highest quality standards in the educational and scientific outcomes at the university.





In the context of Mutah University's commitment to improve quality education, it has demonstrated substantial progress in enhancing its educational offerings and obtaining accreditation for various programs. This section outlines the university's dedication to Sustainable Development Goal 4 (SDG 4) - Quality Education, highlighting its initiatives to expand program accreditation, foster international accreditations, revise and improve existing educational programs, and introduce new academic offerings.

### **Expanding program accreditation**

Approval was granted for the accreditation of 117 programs offered by the university during the reporting period. Eight programs saw an increase in capacity, while ten others underwent rectification measures to comply with accreditation standards. These steps ensure that educational offerings at Mutah University are aligned with quality and relevance.

### **International accreditations**

Mutah University's commitment to quality education extends to international accreditations. Several programs received international recognition, further enhancing the university's educational standards. The Pharmacy College secured American International Accreditation (ACPE) for 2022/2023, and the Faculty of Medicine obtained international quality assurance and accreditation (WFME) for 2021/2022. The faculties of Information Technology and Engineering are in the process of obtaining international accreditations (ABET), and the Business Faculty became a member of AACSB, as a prelude to obtaining American accreditation for business colleges.

### **Research and scientific publications in education**

In alignment with SDG 4, Mutah University's commitment to education is also reflected in its research contributions. Notable publications, including studies on leadership in organizational excellence, teaching methodologies, and the impact of organizational culture on staff well-being, highlight the university's active role in advancing educational research and promoting sustainable learning opportunities. These publications signify the institution's dedication to enhancing the quality of education and its commitment to providing a conducive learning environment for all.

### **Revision of educational programs**

A comprehensive review of various educational programs led to significant improvements. Programs such as Strategic Management, Criminology, Private Law, Law, Physical Education, Math, Business Administration, and Management Information Systems were enhanced to meet accreditation standards. E-Government Technology opened its doors to new student admissions, highlighting the commitment to academic excellence and accreditation guidelines.

## New programs and promising future

Mutah University introduced 12 new programs, including undergraduate, master's, higher diploma, and specialized medical programs, further expanding educational opportunities. Additionally, seventeen professional diploma programs were established across seven colleges, emphasizing the university's commitment to providing outstanding and sustainable education. Plans for a deanship for technical education and a department for basic humanities and scientific sciences are in progress, reinforcing the university's dedication to a promising future in education.



## 5 GENDER EQUALITY



### Gender Equality: Empower, Thrive, Unite!



Mutah University is dedicated to advancing Sustainable Development Goal 5 - Gender Equality and has made substantial progress in fostering an inclusive and gender-balanced academic environment. This section highlights the university's achievements, prominent female leaders, scientific research contributions, and selected publications that address gender equality issues.

#### Advancing gender parity

In the pursuit of SDG 5, Mutah University has witnessed remarkable developments in promoting gender equality. During the academic year 2021-2022, the representation of female academic staff increased significantly, a clear step toward achieving gender parity within the faculty. Moreover, the number of female scholarship recipients surged to 45, enhancing educational opportunities for women. The university's commitment to gender equality in leadership positions is evident, with more than 55 women holding executive roles within the institution. The female-to-male student ratio remains consistent at 55:45.

#### Prominent female leaders

Mutah University is deeply committed to promoting gender equality and empowering women in leadership roles. The university proudly counted Professor Rana Abu Alzahab as a member of the Board of Trustees, underscoring its recognition of female expertise and leadership. Dr. Nisserin Mowafwi's appointment as the Dean of the Faculty of Allied Sciences for the academic year 2021-2022 further exemplifies this commitment to fostering female leadership.

#### Scientific contributions to SDG 5

Researchers of Mutah University have conducted several studies that include investigations into women's empowerment, gender-based violence prevention, and female participation in leadership roles. Each of these studies adds a unique perspective to the understanding of gender equality, showcasing the university's multifaceted efforts in promoting gender equity both locally and globally and to fostering an inclusive society where gender disparities are actively addressed and eradicated. Other studies investigated gender disparities in terms of the response to various health and environmental issues. For example, the one titled "Sex Disparities in Food Consumption Patterns, Dietary Diversity, and Determinants of Self-Reported Body Weight Changes Before and Amid the COVID-19 Pandemic in 10 Arab Countries." This research delves into gender-based distinctions in various aspects across 10 Arab nations and sheds light on gender disparities.



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## 6 CLEAN WATER AND SANITATION



### Pure Wates, Healthy Lives!



Clean and safe drinking water is fundamental to human survival and quality of life. Sustainable Development Goal 6 strives to deliver dramatic improvements in access to clean water, especially in the world's most underserved regions. Jordan, the world's second most water-scarce nation, suffers severe water scarcity, making access to clean water a pressing concern. Mutah University has shown a focused commitment to making progress toward this goal in every possible way and year 2022 witnessed several milestones in this regard, including the following as examples.

#### **Educational workshops and multidisciplinary initiatives**

In furtherance of SDG 6, the university encourages its staff and students to participate in local, regional and international workshops, training courses, initiatives and conferences supporting SDG 6 and facilitate their participation, in addition to hosting many of them. For instance, Mutah University's AWWA Student Chapter organized a workshop on dams and wastewater treatment plants. The workshop featured distinguished experts in the field, including the former Minister of Water and Irrigation, Mr Mousa Al-Jamaani and Mrs. Zainab Abu Zeid, who shared their extensive knowledge and experience. The Prince Faisal Center for Dead Sea Research provides training on the proper use of wastewater. The university experts also contribute to that by offering professional training courses on wastewater management.

#### **Global collaboration and Funded water projects**

In collaboration with renowned international institutions, Mutah University has initiated several funded projects related to water and sanitation. Notably, the eMaster in Water Resources Engineering (eWMRE) project involves partnerships with Jordanian, Palestinian, and European institutions, aiming to achieve capacity building and enhance knowledge of the availability and sustainability of water resources. Through these collaborative efforts, numerous activities have been organized in 2022 to support water resource preservation, aligning with the goals of SDG 6. The university's commitment to addressing the global water crisis extends beyond local initiatives, reinforcing the universality of clean water access.

#### **Infrastructure and facilities supporting SDG 6**

Mutah University maintains special artesian wells that contribute to its independence in potable water and ensures sustainable pumping of water. Furthermore, the on-campus wastewater treatment plant treated approximately 182,000 m<sup>3</sup> of sewage for irrigation on the university campus, showcasing the dedication to sustainable water management. Through the Scientific Research Fund and international funded projects, the university has been provided with a variety of equipment and devices that serve boosting research and problem solving, such as the multi-parameter water quality station provided through the eMWRE project and setup on-campus to measure water quality of the main tank.

## Scientific research contributions (2022)

In 2022, significant contributions to water quality and sanitation research were made by Mutah University. In addition to the products of funded projects, several scientific publications were produced, reflecting the university's commitment to this field. These publications covered topics such as the agricultural reuse of reclaimed water and its impact on organic compounds, as well as the effects of chlorination treatment on the composition of gram-negative bacteria in recycled wastewater. These studies provide valuable insights into sustainable water use and effective disinfection methods, aligning with the principles of SDG 6. Various disciplines within the university are directly engaged with water-related research, further highlighting the institution's dedication to addressing water quality and sanitation challenges. Some research visits were dedicated to studying water issues at world-class institutions to exchange experience and raise international awareness of the water crisis in Jordan. One of these was Dr Esraa Tarawneh's summer visit to Glasgow University, where she presented the pressing water situation of Jordan and worked to initiate future collaborations with experts in the field.



## 7 AFFORDABLE AND CLEAN ENERGY



### Powering Progress, Sustaining Earth!



Mutah University has made substantial progress in its commitment to Sustainable Development Goal 7 (SDG 7) – ensuring access to affordable, reliable, sustainable, and modern energy for all. Through innovative projects, international collaborations, training workshops, and the establishment of academic societies, the university has demonstrated its dedication to promoting renewable energy and supporting sustainable development initiatives. Furthermore, Mutah University's commitment to clean energy and sustainable development has gained international recognition through THE Impact Ranking. The university's exceptional efforts in promoting renewable energy are evident in its impressive global ranking and score, highlighting its significant impact in advancing clean energy technologies.

#### **Renewable Solar Energy System Operation Project**

Mutah University's flagship initiative, the Renewable Solar Energy System Operation Project, is a testament to the institution's dedication to SDG 7. Developed in collaboration with European institutions and supported by the European Union, this project has not only pioneered advanced solar energy solutions but also strengthened ties between Jordanian and European scientific communities. The system's effectiveness, efficiency, and affordability make it a groundbreaking development in the field of renewable energy.

#### **Training workshops and academic cooperation**

In line with its commitment to promoting renewable energy education, Mutah University organized a training workshop under the IREEDER project in 2022, supported by the European Union's Erasmus Plus program. This workshop brought together experts from multiple universities, fostering academic and technical cooperation. The practical training sessions held in the modern energy laboratory equipped participants with hands-on experience, enhancing their skills and preparing them to meet the demands of the labor market.

#### **Fostering collaboration and expertise**

The establishment of a Chapter of the Society of International Energy Engineers on Mutah University's campus is a significant milestone. This move not only showcases the university's global recognition in the field of renewable energy but also provides a platform for knowledge exchange and collaboration. The Society serves as a hub for students, faculty, and professionals to engage in discussions, share expertise, and contribute to developing comprehensive plans and programs related to renewable energy.

#### **Research contributions to SDG 7**

Mutah University researchers conducted pivotal research studies that emphasize the vital contribution of scientific inquiry in optimizing renewable energy technologies and underscore the importance of scientific research in facilitating universal access to affordable, reliable, and modern energy, aligning seamlessly with the objectives of SDG 7.

Mutah University's initiatives, from its Renewable Solar Energy System Operation Project to the establishment of international academic partnerships and the formation of the Society of International Energy Engineers Chapter, exemplify its dedication to Sustainable Development Goal 7. Through these efforts, the university not only contributes significantly to the global energy transition but also serves as an inspiring model for other institutions striving to achieve sustainable development goals and create a cleaner, more sustainable future for all.

### Research metric details for SDG 7: Affordable and Clean Energy

THE Impact Rankings 2023 · University of Mutah





This report presents an overview of Mutah University's continuous commitment to advancing Sustainable Development Goal 8 (SDG 8) – Decent Work and Economic Growth in the years 2021 and 2022. The university's unwavering dedication to creating an inclusive and equitable work environment for all employees is analyzed, showcasing various policies, initiatives, and developments undertaken to ensure the well-being and rights of its workforce.

### **Recognition of unions and labor rights**

In 2021 and 2022, Mutah University actively reinforced its recognition of unions and labor rights. The university's Staff Club, operating under defined bylaws, played a pivotal role in defending the rights of employees. Regular elections ensured the club's representation of diverse staff groups, fostering open dialogue and cooperation between employees and the university administration.

### **Commitment against all forms of abuse**

Mutah University's commitment against forced labor, modern slavery, human trafficking, and child labor continued to be a central focus in 2021 and 2022. The university diligently implemented its policy to combat malpractices in the labor market, aligning with national efforts and international standards(<https://www.mutah.edu.jo/Documents/sug/Policy%20to%20combat%20malpractices%20in%20the%20labor%20market.pdf>). Through awareness campaigns and training sessions, the university actively contributed to eradicating these unethical practices from the labor market.

### **Policy against discrimination in the workplace**

Throughout 2021 and 2022, Mutah University maintained its strong stance against workplace discrimination. The Equality Promotion Policy and Combating Discrimination document, implemented in 2021, served as a cornerstone for promoting a discrimination-free environment. The university actively enforced non-discrimination policies, ensuring equal opportunities for all employees during this period.

### **Guaranteeing equivalent rights for outsourced activities**

In 2021 and 2022, Mutah University reaffirmed its commitment to ensuring equivalent rights for workers engaged in outsourced activities. The university's policies aligned with fair labor principles, emphasizing ethical conduct among third-party contractors. This commitment positively impacted not only the university's immediate workforce but also those engaged in outsourced activities.

### **Pay scale equity and gender pay gaps**

The university also continued to uphold pay scale equity and gender equality regulations. The university remained dedicated to equal treatment for all employees, irrespective of gender, ensuring fairness and equity in all employment processes.

## Employee appeals process

The university's transparent employee appeals process remained a cornerstone of its commitment to employee rights. The university's established committee for handling employee concerns and the availability of an online appeals form provided employees with accessible avenues to address their issues related to rights and pay. This period witnessed an increased emphasis on efficiency and responsiveness, further enhancing employee satisfaction and confidence in the university's processes. (Different online tools to collect feedback and evaluation to from the employees and staff are found on <https://www.mutah.edu.jo/Pages/evaluation.aspx>).

## Incentive program for excellent performance

Mutah University applies a unique incentive program to recognize and reward outstanding employee performance. The university's clear rules, as outlined in the document titled "Instructions for Incentive Increases, Certificates and Discretionary Rewards at Mutah University" provided a framework for acknowledging diligence and excellence among its staff. This initiative not only motivated employees but also fostered a culture of innovation and continuous improvement within the university (<https://www.mutah.edu.jo/Instructions/instructions32.pdf>).



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## Performance evaluation links

Evaluating the performance of the head of the department council

Presenting the strategic plan to internal parties

SWOT analysis survey

Submission form (suggestion - complaint - thank)

Deans' Council performance evaluation form

A model for measuring the competency level of Mutah University graduates from the point of view of employees

Values, mission and objectives evaluation form

Library and learning resources evaluation questionnaire

Final year graduate student satisfaction questionnaire

Department Council performance evaluation form

College Council performance evaluation form

## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



### Innovate, Build, Progress - Connect the World!



Mutah University has continued the outstanding improvement in fostering industry and innovation, marking an impressive increase in publications in this field compared to the previous years. This remarkable progress underscores the success of all dedicated efforts and commitment to the plans formulated.

#### **Intellectual property and patent initiatives**

Recognizing the importance of intellectual property in driving innovation, the Council of Deans at Mutah University has adopted an Intellectual Property Policy. This strategic move has paved the way for exploring potential patents, and several agreements have already been signed by a researcher who received university support.

#### **Renewable Energy Laboratory and cutting-edge education**

In line with SDG 9, Mutah University has established the Renewable Energy Laboratory as part of the (IREEDER) project. This initiative aims to enhance the educational landscape by offering courses in electrical engineering, renewable energy, the Internet of Things, its applications, and information security. The laboratory also provides specialized software for students in the electrical engineering department and the broader college. Our focus on fostering innovation extends to education, empowering students with the knowledge and skills needed for the industries of the future.

#### **Research income and academic growth**

Mutah University has experienced a notable increase in research income from the industry. Additionally, the academic staff specializing in science, technology, engineering, and mathematics (STEM) disciplines have increased. In the clinical and health sectors, there has been nearly a 1% increase, reflecting the contributions of the healthcare colleges. The demand for research in these areas was amplified by the challenges posed in the recent few years by the COVID-19 pandemic, leading to numerous projects and initiatives. This growth underlines our commitment to advancing industry and innovation while actively contributing to SDG 9.

#### **Entrepreneurship and Innovation**

Mutah University's dedicated Entrepreneurship and Innovation Center plays a pivotal role in advancing industry and innovation. Through numerous organized activities, it actively fosters entrepreneurial initiatives, incubator programs, and innovative projects, contributing to economic growth and technological advancement. The center celebrated the Global Entrepreneurship Week with a wide range of activities and achieved a distinguished success.

The center also launched in May 2022 the Mutah Award for Entrepreneurship and Innovation to foster an entrepreneurial culture and spirit of innovation among university.

In May 2022 also, Mutah University's engineering students, under faculty guidance, presented an exhibition featuring innovative medical, nutritional, and cosmetic products. This initiative fosters students' practical skills and aligns with SDG 9, promoting innovation and economic self-sufficiency.



**10** REDUCED  
INEQUALITIES



**Equal  
Opportunities,  
Inclusive  
Communities!**



Sustainable Development Goal 10 (SDG 10), which focuses on Reduced Inequalities, is actively pursued by Mutah University. In the academic year 2022, substantial progress was achieved in promoting inclusivity and decreasing disparities within our community. A significant increase in the percentage of students from developing countries and low- to middle-income backgrounds was observed. Additionally, 10% of new student admissions were allocated to international students, expanding educational access globally. Emphasis is placed on enhancing access for students from poor socioeconomic backgrounds and refugees, aligning with our commitment to equity.

#### **Global inclusivity and fee reduction initiatives**

Reducing inequalities is a global commitment we uphold, with numerous international students originating from low- or low-middle-income countries. To facilitate their education, we provide fee-reduction grants, improving accessibility for disadvantaged individuals. The impact of this initiative is reflected in our substantial presence in the educational markets of several countries, such as Iraq, Malaysia, the Philippines, Indonesia, and Syria. Our goal is to foster a more equitable learning environment by removing economic barriers to education.

#### **Supporting students with disabilities**

Accommodation for 100 students with disabilities is provided by the university, offering them convenient facilities and services at no additional cost. These services include a dedicated hotline and fully accessible buildings, ensuring that every student can access the resources they need. This extends also to the faculty members who have identified disabilities. Additionally, designated parking slots are offered across campus to cater to disabled staff members. The Deanship of Students Affairs plays a pivotal role in facilitating procedures to support students with special needs, ensuring their full participation in university activities.

#### **Prince Marad's Visit and MOU Signing**

In March 2022, Prince Marad Bin Raad, President of the Higher Council for Persons with Disabilities, visited Mutah University to strengthen collaboration in supporting students with disabilities. A Memorandum of Understanding was signed during the visit to enhance cooperation in serving disabled students, reaffirming the university's commitment to inclusivity and reducing inequalities, in line with the principles of SDG 10.

In October 2022, the university hosted the 'I Am Energy, Not Disability' Project's closing day, promoting inclusivity and recognizing the achievements of individuals with disabilities.





Mutah University's commitment to SDG 11 is evident through various initiatives undertaken in 2022. The university has been actively contributing to the sustainability action plan (2021-2025), reinforcing the dedication to fostering sustainable urban development and communities.

#### **Community engagement and access**

In a bid to bolster the principles of SDG 11, Mutah University has adapted its educational framework to facilitate community access to its resources. Facilities like the library, drawing center, and heritage museum are now available to the local community. Moreover, the university has orchestrated a multitude of activities aimed at promoting Jordanian cultural heritage. These initiatives encompassed student visits to historical locations, as well as drawing workshops focusing on archaeological and cultural landmarks like Karak Castle.

#### **Collaboration with public sector**

The recently signed Memorandum of Understanding between Mutah University and the Institute of Public Administration signifies a strategic partnership aimed at exchanging knowledge and promoting sustainable development. This collaboration seeks to enhance the capabilities of public sector employees, bolstering their commitment to the welfare of their nation and community. By offering professional diploma programs and strategic consultations, this agreement aligns with our focus on providing insights and comprehensive assessments of government bodies. The Director-General of the Institute of Public Administration, and Dr. Arafat Awajan, Former President of Mutah University, celebrated this collaborative step, emphasizing the remarkable progress that this partnership promises to bring. They highlighted the potential for increased competence in the public sector through professional diploma programs. This collaboration is geared towards improving governmental functions and services, further contributing to sustainable urban development.

#### **Ensuring wider impact**

Dr. Arafat Awajan also noted that Mutah University is actively engaged in promoting technical education and job readiness. By establishing the Institute of Strategic Studies, the university aims to harness the potential of strategic studies in determining national priorities and serving the community, whether in government institutions or the southern region in general. The collaborative agreement is expected to boost the capabilities of the Institute and help serve the southern region's development and the enhancement of the country's provinces by providing training, capacity building, and other benefits to employees across the entire Kingdom.



## Consume Wisely, Produce Sustainably!



In 2022, Mutah University took significant steps to align its strategies with SDG 12 by adopting sustainable practices and reducing its environmental footprint. This report highlights the university's efforts in promoting sustainable consumption and production patterns.

### Paperless strategy implementation

One of the notable initiatives undertaken by Mutah University was the implementation of various electronic systems aimed at achieving a paperless environment. These electronic systems streamlined both administrative and academic processes, leading to a substantial reduction in paper usage.

Mutah University successfully transitioned to electronic systems for student registration and program applications, eliminating the need for conventional paper forms. This approach enhanced efficiency and significantly reduced paper consumption. The university also implemented electronic systems that replaced traditional paper-based workflows in different areas of employee management. Processes such as leave requests, document submissions, and communication were streamlined electronically, contributing to the reduction of paper usage across the campus.

As part of the paperless strategy, Mutah University transitioned its printing processes to electronic versions. For instance, the university's journal, previously printed on paper, was shifted to digital platforms, saving resources and reducing environmental impact.

### Impact and benefits

The implementation of these electronic systems and the shift to digital platforms brought several significant impacts and benefits:

- Reduction in paper consumption: leading to conserving natural resources.
- Increased efficiency: Electronic systems streamlined administrative and academic processes, benefiting both students and staff members.
- Cost savings: The university experienced cost savings related to printing, storage, and distribution of paper-based materials.
- Environmental conservation: The reduction in paper consumption decreased the university's environmental footprint.

### Plastic Waste Reduction Policy

In the early 21<sup>st</sup> century, Mutah University launched a comprehensive Plastic Waste Reduction Policy, implementing actions like replacing plastic bottles with eco-friendly options and organizing awareness seminars. These steps exemplify the university's commitment to SDG 12, promoting responsible consumption and production. The Policy can be found through [Plastic Waste Reduction Guidelines - Mutah University](#).

**13** CLIMATE ACTION



**Act Now,  
Secure Our  
Planet's  
Tomorrow!**



Mutah University's persistent commitment to environmental sustainability witnessed substantial advancements in 2022 through the effective implementation of its comprehensive Climate Action Plan, planned for 2021 to 2025. This strategic initiative encompasses a multitude of measures dedicated to mitigating carbon emissions and fostering climate change awareness. A pivotal achievement includes the successful transition to solar energy, significantly reducing the university's carbon footprint. The installation of solar panels across campus facilities not only diminished the institution's environmental impact but also cultivated a greener, more sustainable campus environment.

#### **Global dialogue and knowledge exchange on climate change**

Mutah University's active involvement in global dialogue and knowledge dissemination was evident through its hosting of the international conference on October 25<sup>th</sup> to 26<sup>th</sup>, 2022, with the theme "Climate Change and its Effects on Water Resources and the Environment." This significant event, aligned with the United Nations' SDG 13 on Climate Action, brought together leading experts and scientists from across the globe. Through intensive discussions and knowledge exchange, the conference shed light on the critical challenges posed by climate change, particularly its impact on water resources and the environment. Mutah University's role as the host of this conference played a crucial role in enhancing climate change awareness and substantively contributing to the SDG 13 objectives.

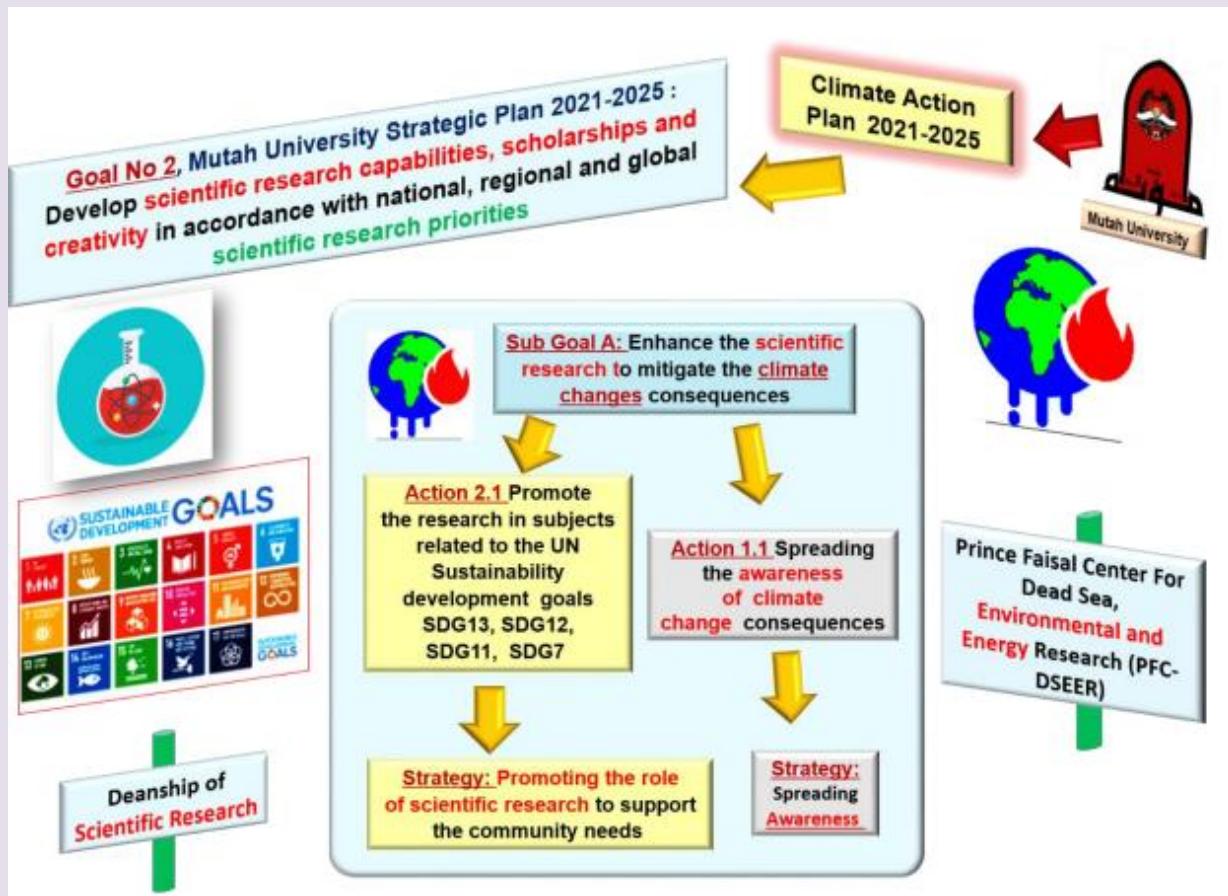
#### **Academic collaboration and renewable energy initiatives**

In embracing collaborative initiatives, Mutah University actively participated in the renewable energy workshop funded by the European Union under the Erasmus Plus program, conducted on February 22, 2022. This workshop provided a platform for 12 trainers from various institutions to engage in theoretical lectures and hands-on training related to renewable energy. The event underscored the significance of academic collaboration in ensuring the sustainability of projects and fostering international scientific connections. Mutah University's active involvement in this workshop highlights its commitment to promoting renewable energy practices.

For comprehensive details regarding these efforts and their progress, please refer to Mutah University's official Climate Action Plan (2021–2025), accessible on the university's website. These endeavors signify Mutah University's profound commitment to combatting the effects of climate change and paving the way for a more sustainable future.

#### **Pioneering research contributions to SDG 13**

Mutah University's substantial contributions to SDG 13 are exemplified through various research endeavors published in reputable journals, distinctly aligns with SDG 13's objectives, marking a significant step towards a greener, more sustainable future.





## Protect Oceans, Preserve Life!



Mutah University contributes to safeguarding Jordan's national wealth, particularly in the southern region, influenced significantly by its proximity to the Gulf of Aqaba. This can be reflected in its multifaceted activities and initiatives.

### **Research and Naval Station**

Mutah University's active involvement in marine life research is evident through the Naval Research Station, which consistently conducts an array of studies. These studies involve marine ecosystems and fishery studies, fostering a deeper understanding of aquatic environments.

### **Educational and research contribution**

The university furthers its marine conservation efforts through a variety of scientific courses focusing on marine life and fishing, with a particular emphasis on the unique characteristics of Aqaba. These educational programs are conducted by specialized academic departments such as the Department of Animal Production in the College of Agriculture. The university actively participates in activities aimed at cleaning the Gulf of Aqaba and its beaches, underscoring its commitment to preserving this vital marine ecosystem. Furthermore, Mutah University showcases a profound interest in the Dead Sea, actively monitoring scientific studies related to this unique natural wonder. This is achieved through the dedicated Prince Faisal Center for Dead Sea, Environment and Energy Research, which is in charge of several projects and initiatives regarding sea water and operates a network of measurement stations in various locations, including the Dead Sea.

### **Water resource sustainability**

In addition to its marine conservation efforts, Mutah University plays a significant role in ensuring water stability, not only at the university level but also throughout Jordan. The university operates a water treatment plant, effectively filtering and treating water for agricultural purposes. This water resource supports the needs of the surrounding area's farms, contributing to regional agricultural sustainability. Mutah University's commitment to water preservation extends to its academic departments, particularly the Department of Civil Engineering, Water and Environment, and the various departments within the College of Agriculture. These departments and affiliated research centers are dedicated to the study of water and the sustainability of its sources, actively working to safeguard this invaluable resource. Studying freshwater production using sea water desalination and its impact on the ecology of sea water is a research priority that Mutah University researchers have been investigating.



**Prince Faisal Center For DeadSea,  
Environmental and Energy Research**



**15** LIFE  
ON LAND



## Nature's Guardians, Sustain the Land!



Mutah University's commitment to address SDG 15, Life on Land, is evident through its improved approach encompassing education, research, and active participation in projects that emphasize the importance of land ecosystems and their preservation.

### **Educational campaigns, initiatives, and practical engagement**

The university prioritizes land ecosystem research through various courses and master's discussions, particularly focusing on agricultural land use and the preservation of green spaces. By offering these educational programs, Mutah University seeks to create awareness about the significance of maintaining and enhancing land ecosystems. It also conducts awareness campaigns designed to encourage the utilization of agricultural spaces. These campaigns aim to inspire action by implementing agricultural activities, such as planting forest trees in vacant areas. Furthermore, students and staff members are actively involved in these hands-on activities, fostering a sense of responsibility towards land ecosystems.

The university also carries out systematic activities that educate students on the importance of land and space within the campus. These initiatives work towards providing high-quality seedlings, trees, and seeds at affordable costs, ensuring the sustainable development of land resources.

### **Scientific workshops and green policies**

Mutah University actively supports the promotion of land ecosystems through scientific workshops organized by the College of Agriculture and the Center for Entrepreneurship and Innovation. These initiatives align with the university's policy to transform into a green university, emphasizing sustainability and environmental consciousness.

### **Scientific Research**

Mutah University's researchers have conducted several studies, published in international and regional journals, focusing on life on Earth, particularly highlighting the significance of agricultural land, and the percentage of scientific citations related to these publications has seen substantial growth. The Deanship of Scientific Research actively supports numerous projects that encompass vital aspects of land ecosystems. For instance, research projects investigating the germination of date palm showcase Mutah University's dedication to the sustainability of land ecosystems.

### **Celebrating Tree Day**

Top of Mutah University annually celebrates Tree Day by planting trees and engaging the university community in activities that emphasize the importance of preserving land ecosystems and promoting a green environment.



## 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



### Justice for All, Peace in Our Hands!



Mutah University embraces a multifaceted approach that revolves around peace, justice, and inclusive governance. The university's commitment to these principles is evident in its university governance, community engagement, and dedication to online education.

#### **Inclusive university governance and community engagement**

Mutah University places inclusivity at the core of its decision-making processes. The University Council comprises diverse representatives, including students, academic and non-academic staff, and community members. The university extends its commitment to peace and justice through community engagement and social initiatives.

#### **Research advancements and knowledge dissemination**

Mutah University's research endeavors span a wide spectrum, focusing on leadership, governance, counterterrorism, strategic planning, and cybercrime. The effectiveness of graduate programs in strategic management, criminology, political science, and Islamic law has notably contributed to the surge in research output. This surge is evident through a substantial increase in the number of published papers in these domains, accompanied by a significant rise in scientific citations in comparison to previous years.

#### **Empowering student governance and awareness**

Mutah University underscores its commitment to governance by fostering the elected Union of Mutah University Students. This initiative, under the auspices of the Deanship of Student Affairs and through various student bodies and clubs, represents a cornerstone of rational management. The university places a strong emphasis on enhancing human value, promoting the student's societal role, and elevating political awareness among its student body. Graduates in law and civil enforcement make up 7% of the university's total graduates, further underscoring its commitment to producing well-informed professionals in these areas.

#### **Dedication to academic freedom, integrity, and transparency**

Mutah University upholds various policies that encompass academic freedom, integrity, anti-corruption measures, and democratic practices. The annual election of the university's staff club, aimed at fostering democracy, is a testament to these values. The institution's commitment to transparency is evident through the publication of financial statements and the annual budget within approved functional bodies. The Internal Audit and Control Department plays a pivotal role in instilling ethical values and principles within the university's work performance. Additionally, it ensures effective control over the university's finances and decisions, adhering to best practices and professional standards, while operating independently and objectively.





Mutah University has contributed to the global collaboration through addressing challenges, developing solutions, and shaping future prospects in partnership with governmental bodies and regional non-governmental organizations. The university's commitment to sustainability and adaptive management has been exemplified through various initiatives undertaken in the years 2021-2022. Through these partnerships, the university contributed to problem-solving, policy development, and the modeling of potential futures. Interventions were monitored, documented, and reported, empowering adaptive management practices.

### **International collaboration and partnership**

Through strategic alliances with prestigious universities worldwide, Mutah University has made significant strides in promoting education, research, and cultural exchange. In 2022, the university continued its partnership in several international projects focusing on sustainability, such as "More than a Job," Jo-Job, SHELTERs, eMWRE and CAR-ECO. Simultaneously, the university concentrated its national initiatives on addressing issues related to the United Nations' Sustainable Development Goals (SDGs).

Mutah University is dedicated to nurturing intellectual and cultural bonds with esteemed academic institutions globally. By establishing partnerships with universities in several countries worldwide, it has paved the way for enriching academic experiences and fostering international understanding. The table below shows a list of institutions that are represented in these collaborations.

No.	University	Country
1	Qatar University	Qatar
2	University of Basra	Iraq
3	University of Ohio	United States of America
4	Gdansk University	Poland
5	European University	Cyprus
6	BEZMILAM VAKIF University	Turkey
7	University of Fujairah for Science and Technology	United Arab Emirates
8	With Samarra University	Iraq
9	Anadolu University	Turkey
10	Tishk International University	Iraq
11	UNESCO-IHE Institute for Water Education	Netherlands
12	With Soran University	Iraq
13	Doha Institute for Graduate Studies	Qatar
14	Open University of Libya	Libya
15	University of Tripoli	Libya
16	Al Zawiya University	Libya
17	University of Sirte	Libya
18	Misurata University	Libya
19	Libyan Academy for Higher Studies	Libya
20	Alberta University	Canada
21	West Attica University	Greece

## Strategic initiatives

Mutah University views these international partnerships as catalysts for academic excellence and cultural enrichment. These collaborations have enabled our faculty, researchers, and students to engage in diverse multidisciplinary projects, joint research endeavors, and collaborative conferences. Moreover, Mutah University has actively participated in +Erasmus projects, signing 10 academic exchange agreements with prominent European universities in Italy, Romania, Britain, Turkey and others.

### Achievements in academic exchange:

The university's commitment to academic exchange is exemplified through the following partnerships:

No.	University	Country
1	Delistudi di Romala Spaniza University	Italy
2	University of Babes Bolyai (Romania)	Romania
3	University of Lincoln	Britain
4	Ankara University	Turkey
5	Ataturk University	Turkey
6	Aristotelio Panepistimio Thessalonikis	Greece
7	University of Economics Verna (Bulgaria)	Bulgaria
8	Powislanski University	Poland
9	Koc University	Turkey
10	Vrije Universiteit Brussel	Belgium
11	Sakarya University of Applied Science	Turkey
12	Ataturk University	Turkey

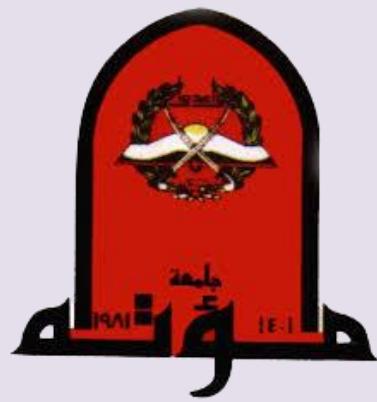
### Promoting mutual growth

These agreements emphasize academic exchange programs for both students and faculty members, enabling collaborative research projects, seminars, workshops, and shared database access. Mutah University has also taken proactive measures to offer training programs, enhancing scientific and managerial skills for university staff members.

### Conclusion

Mutah University remains steadfast in its dedication to SDG17, fostering partnerships that empower its academic community and contribute to a more interconnected and sustainable global society. Through these collaborative efforts, we continue to enrich educational experience, advance research, and nurture a future generation equipped with the skills and perspectives necessary to address the world's most pressing challenges.





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