

FEBRUARY 2026



Newsletter



Faculty of Science

ISSUE NO.1



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- Faculty News
- Academic Achievements
- Conferences and Scientific Visits
- Lectures and Workshops

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————— Edition 1 2025/2026 —————



“Education is the foundation for building human capacities and shaping the future of nations.”

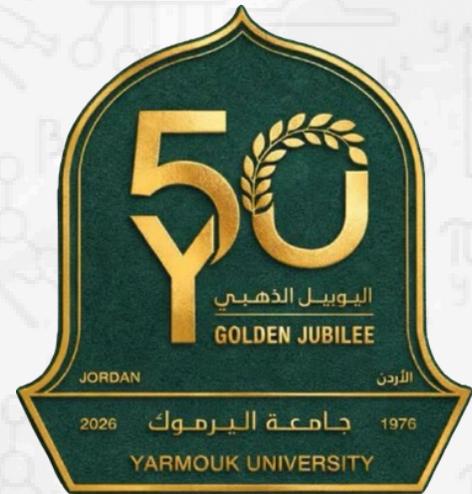
— His Majesty King Abdullah II ibn Al Hussein

Yarmouk University

Faculty of Science

1976 – 2026

Welcome to our Newsletter 2026



Golden Jubilee
50 Years of Academic Excellence

The Faculty of Science was established alongside Yarmouk University in 1976, originally named the Faculty of Science and Arts, and became an independent faculty in 1981. Since then, it has embarked on a journey dedicated to innovation, discovery, and community service.

The faculty comprises seven distinguished academic departments, all offering Bachelor's and Master's degrees except for the Department of Basic Sciences, which provides primarily elective courses that support university-wide education requirements.

The academic programs are designed to equip students with the knowledge, skills, and competencies needed to excel in their fields and prepare them for the job market. The faculty continuously updates its curricula to stay at the forefront of global scientific advancements.



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University President's Message



Dear students, faculty members, and guests,
It gives me great pleasure to welcome you all to Yarmouk University, one of Jordan's most distinguished and leading universities. As the President of this esteemed institution, I am honored to share with you our educational strategy, which is the cornerstone of our success.

At Yarmouk University, we believe in providing our students with a comprehensive and challenging education that prepares them for success in a rapidly changing world.

Our strategy is built on the principles of academic excellence, innovation, and student-centered learning. We are committed to ensuring that our students have access to the best possible resources, facilities, and faculty members who are experts in their respective fields.

Our educational strategy is centered around the concept of creating an inclusive learning environment that fosters critical thinking, intellectual curiosity, and lifelong learning. We strive to provide our students with a well-rounded education that not only prepares them for their chosen careers but also instills in them a sense of social responsibility and civic engagement.

Our approach to education is holistic and interdisciplinary, with a focus on promoting creativity, problem-solving, and collaboration. We believe that by exposing our students to diverse perspectives and experiences, we can equip them with the skills and knowledge they need to succeed in today's complex and interconnected world.

In conclusion, I would like to welcome you all once again to Yarmouk University, where we are committed to providing our students with an exceptional education that empowers them to achieve their full potential. I invite you to explore our campus, meet our faculty members, and learn more about our innovative programs and initiatives. Thank you for choosing Yarmouk University as your academic home, and I wish you all the best on your educational journey.

President of Yarmouk University
Prof. Malek A. Alsharairi

A Message From The Dean

Dear Students,
Faculty Members,
Esteemed Website Visitors,

I am pleased to welcome you to the Faculty of Science, which stands as a cornerstone of academic excellence and scientific advancement. Since its establishment in 1976, the faculty has played a vital role in shaping the future of education and scientific research in Jordan, the region, and the world. It is a school dedicated to innovation, discovery, and community service.

Our academic programs are designed to equip students with the knowledge, skills, and competencies necessary to excel in their respective fields and prepare them for the job market. The faculty is home to a distinguished group of faculty members and researchers who strive to provide a stimulating educational environment that blends academic and human excellence. Moreover, the faculty is rich in specialized research laboratories, teaching labs, and advanced equipment that offer students and faculty members the tools to deepen their knowledge and prepare graduates for professional life.

Recognizing the importance of specialized education, the faculty continues to revise its academic curricula to align with the latest advancements in knowledge and science. It offers academic programs tailored to meet market needs, ensuring that our educational system remains dynamic and in harmony with contemporary scientific and technological developments.

Looking Ahead

As we move forward, the Faculty of Science remains steadfast in its commitment to academic excellence, innovation in scientific research, and societal impact. We continue to develop new programs, strengthen partnerships, and expand research opportunities to prepare our students for leadership roles across academic, industrial, commercial, financial, and other sectors.

We pledge that the Faculty of Science will continue to push the boundaries of knowledge, solve real-world challenges, and make meaningful contributions to our beloved community.

Prof. Muheeb Awawdeh
Dean of the Faculty of Science



Faculty Profile

01



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Faculty Administration



Prof. Muheeb Awawdeh
Dean of Faculty



Dr. Abdulla Al-Rawabdeh
Vice Dean



Dr. Mohammed Al-Kadiri
Vice Dean



Dr. Rabe'ah Al-Rawashdeh
Assistant Dean for
Quality Assurance



Prof. Molham Eyadeh
Assistant Dean for
Student Affairs

Heads of Departments



Dr. Tareq Al-Shboul
Department of
Basic Sciences



Dr. Qassem Mohidat
Department of
Physics



Prof. Wathiq Bani Domi
Department of
Mathematics



Dr. Mohammad Al-Jahmani
Department of
Biological Sciences



Dr. Ibrahim Mhaidat
Department of
Chemistry



Dr. Mohammad Alqudah
Department of
Earth and Environmental
Science



Dr. Ayman Bakleezi
Department of
Statistics

FACULTY OVERVIEW

Our Vision

To be a pioneer and distinguished Faculty at the national and regional levels in both academic and research sectors according to the highest international standards.

Our Core Values

Quality and Excellence: The pursuit of global excellence in teaching, learning, and innovation.

Creativity: creating the appropriate climate for creative thinking and innovative behavior.

Justice and Integrity: The Faculty is committed to the principles of social justice, equal opportunities, and cultural diversity.

Authenticity: Faculty members are committed to honesty, respect, and professional ethics.

Transparency: The Faculty and its members are committed to transparency in scientific and educational activities.

Effective Communication: The Faculty instills a culture of teamwork in thinking, behavior, and communication between faculty members, employees, students, and the local community.

Our Mission

To contribute to achieving the mission of Yarmouk University through excellence in teaching and scientific research and servicing the local community. The Faculty aims at providing society with distinguished graduates equipped with scientific and technological tools capable of facing future developments and compete at the regional and international levels.

Our Strategic Goals

Achieving quality standards in research and education, and the relentless pursuit of international academic excellence.

Providing society with graduates who are pioneers and leaders and providing them with various scientific skills and experiences.

Continuous updating of curricula to keep pace with progress in various scientific disciplines.

Providing an interactive learning environment that encourages effective communication between students and faculty members

Developing pioneering scientific research that contributes to Faculty excellence, enriches knowledge, and provides innovative solutions to problems facing the local community

FACULTY IN NUMBERS



5 Buildings



+ 40
Administrative staff



+ 140
Faculty member



+ 21300
Graduate



+ 230
Graduate student



+ 3000
Bachelor's student



10
Graduate Studies
Programs

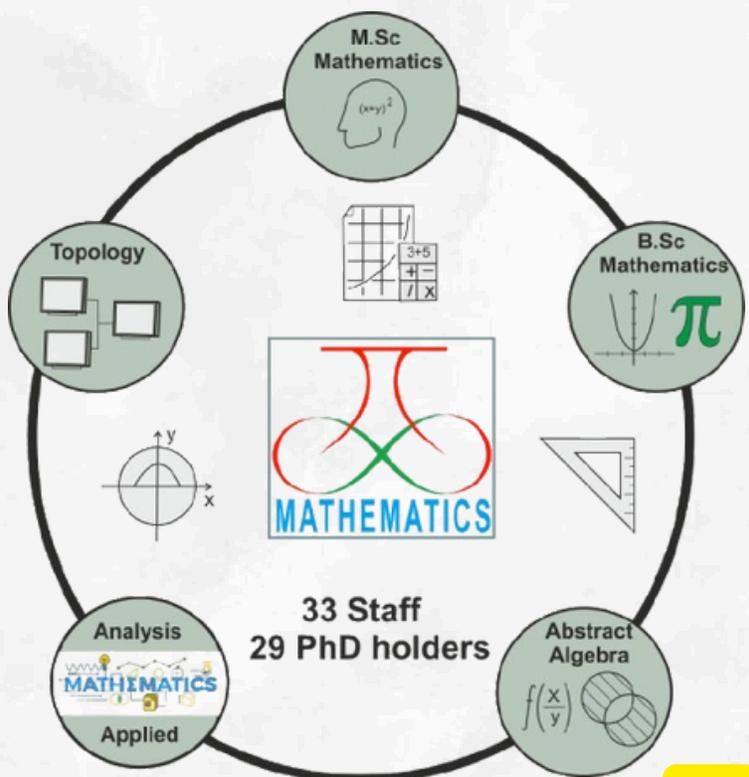


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Bachelor's
programs

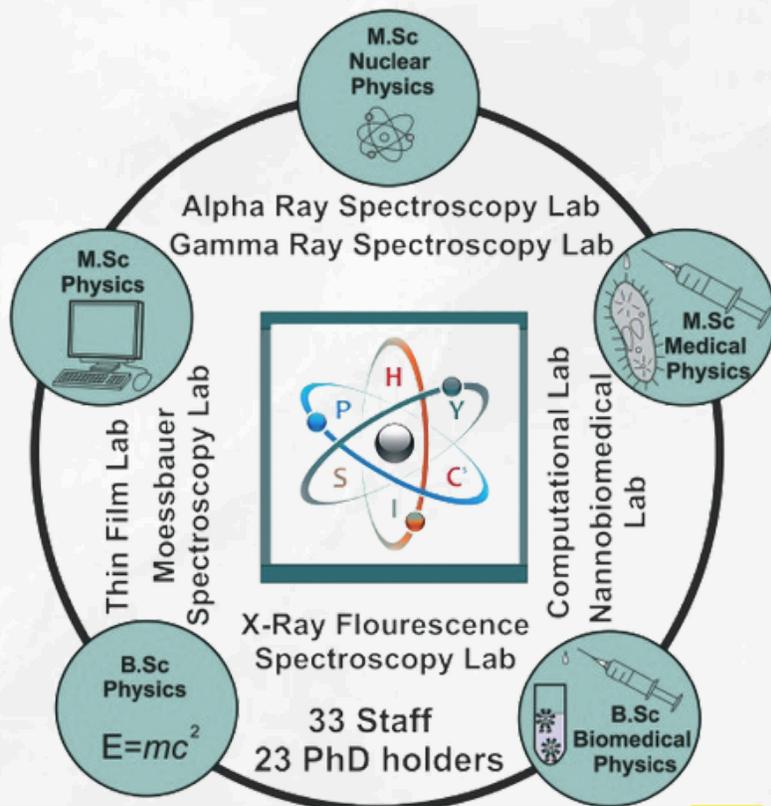


6000
Equipment

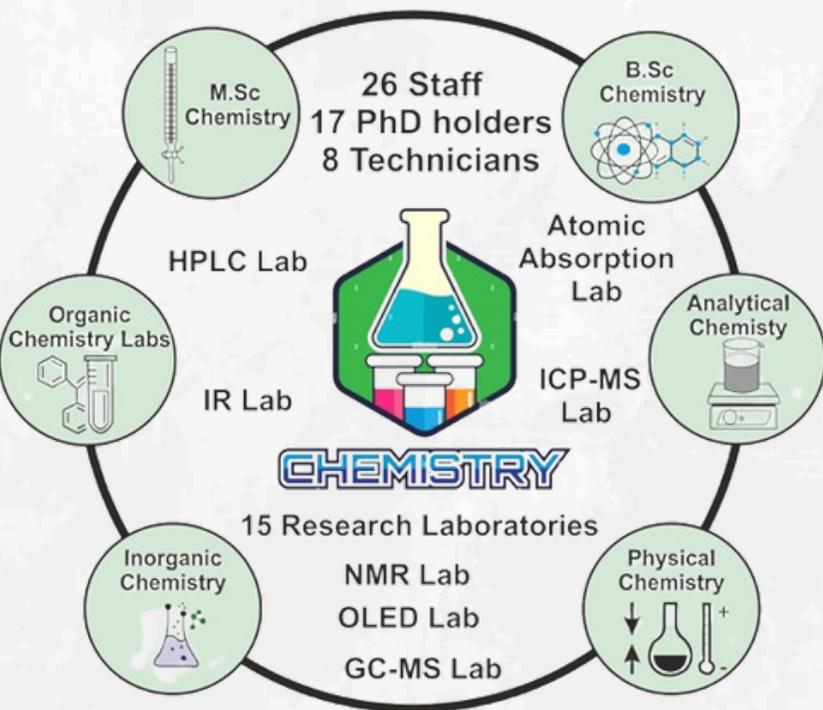
OUR DEPARTMENTS



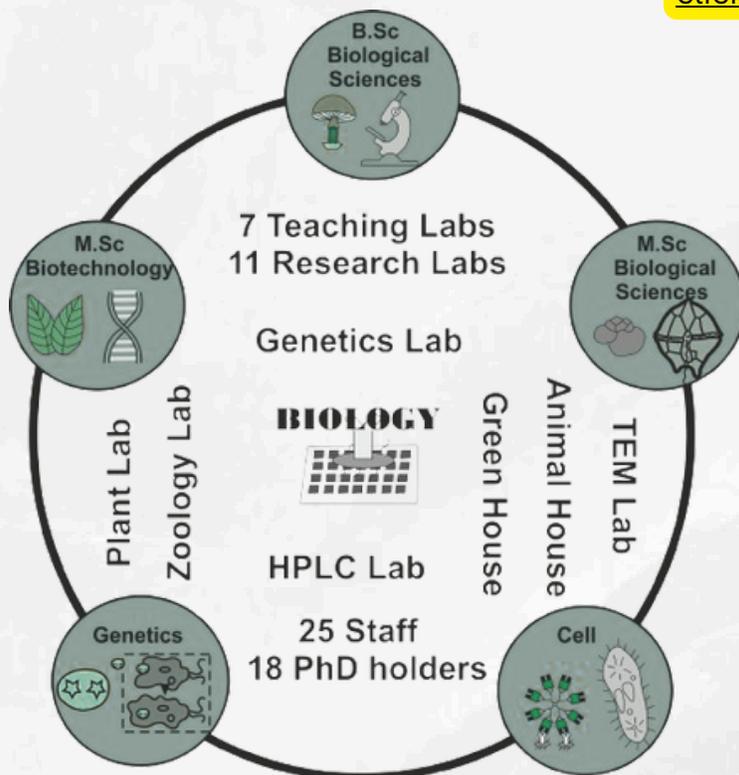
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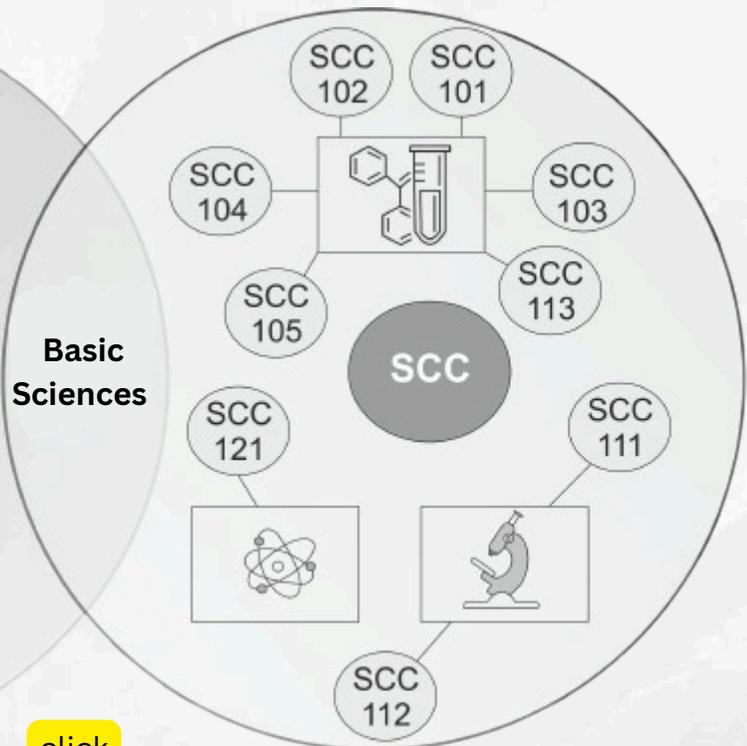
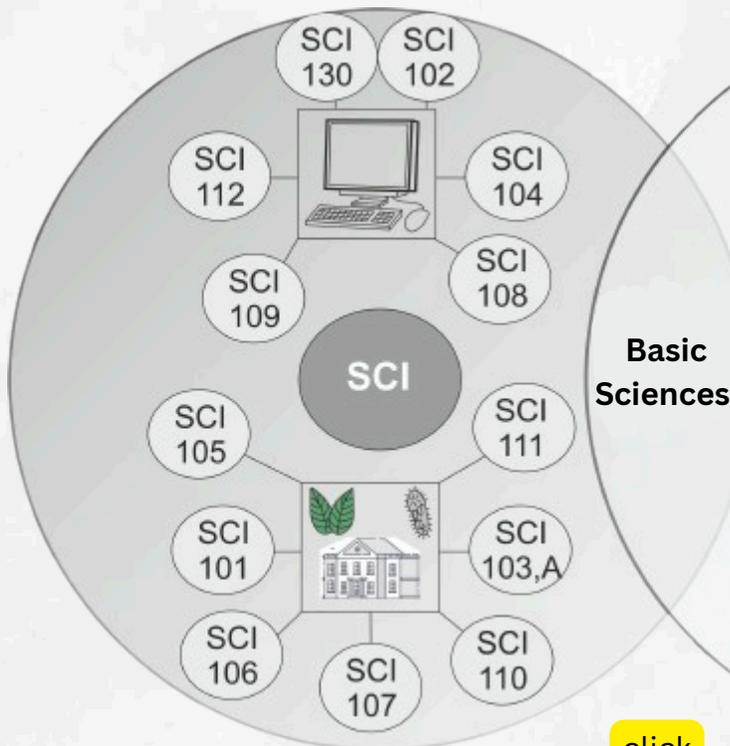
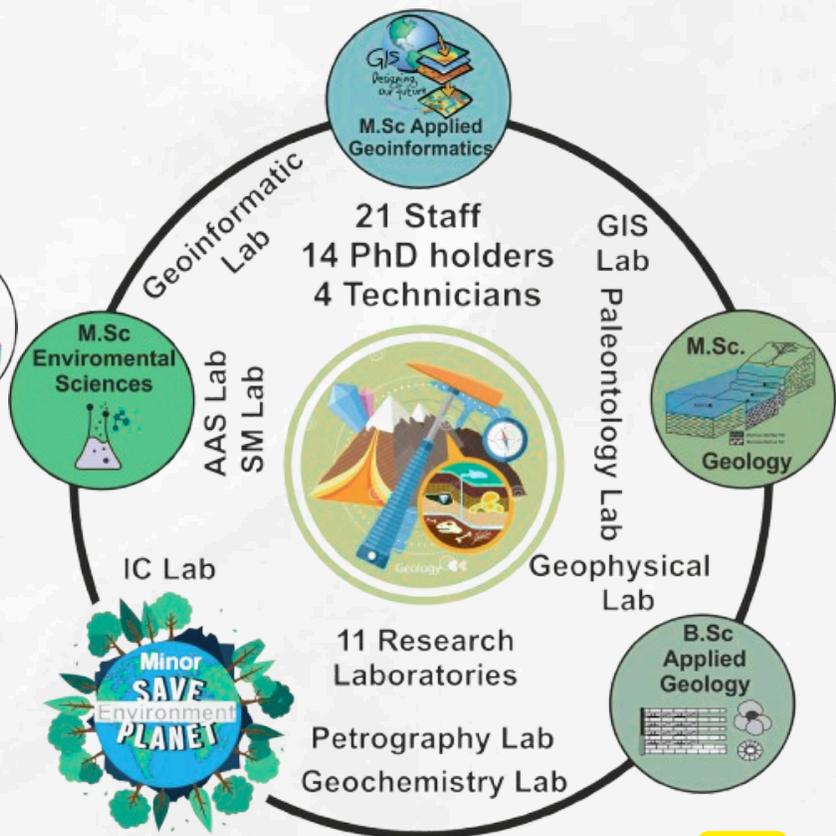
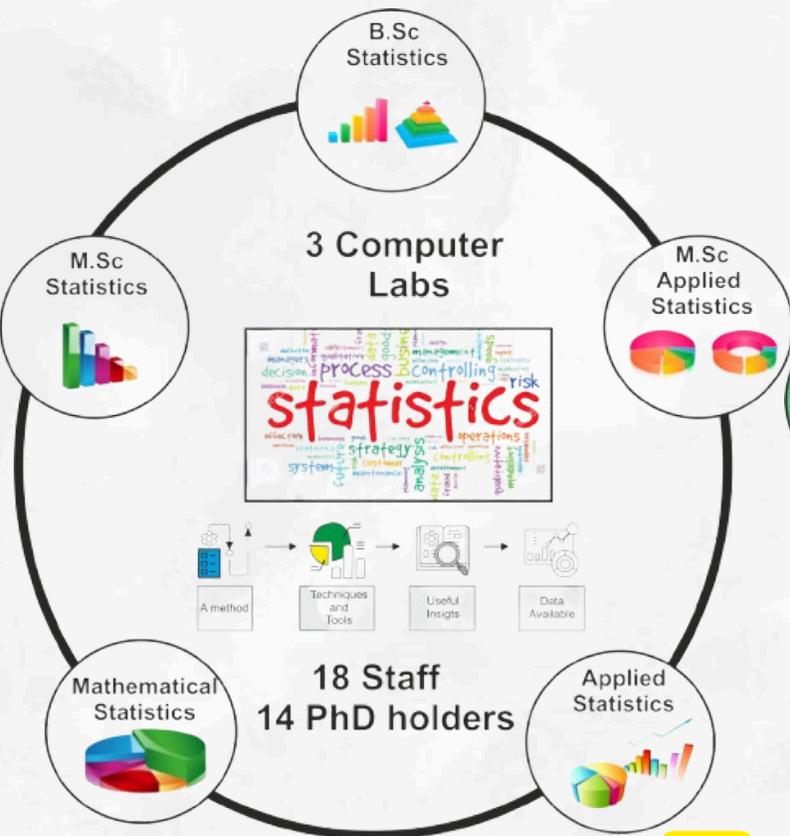


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OUR DEPARTMENTS





OUR UNITS

- [Jordan Natural History Museum](#)
- [Animal House](#)
- [The Greenhouse](#)
- [Statistical Analysis Unit](#)
- [Nitrogen Unit](#)

JORDAN NATURAL HISTORY MUSEUM

The Jordan Natural History Museum was established at Yarmouk University in 1981 and is recognized as one of the University's distinctive facilities due to the richness and diversity of its animal, plant, and geological collections. The museum attracts students, researchers, and visitors from within Jordan and abroad, serving as a scientific and cultural landmark for studying environmental and geological changes and their impact on ecosystems.



Museum Supervisor:

Prof. Nazem Mansour Al-Radaideh



Museum Technicians:

- Fadel Al-Gharaibeh
- Mu'tas Omari
- Amir Obeidat

Museum technicians conduct regular field visits across various regions of the Kingdom to survey, collect, classify, and preserve specimens using scientific methods such as taxidermy and drying before displaying them appropriately. The museum also receives specimens from the Royal Society for the Conservation of Nature, in addition to contributions from local communities.



The museum preserves a record of life as it was in the past, as it exists today, and as it may be in the future, through the collection and display of animal, plant, and geological specimens representing Jordan's natural environment across different time periods. This is done to study, document, and interpret the changes that have taken place during these eras.

The museum is currently under re-construction, which is expected to be completed by the end of February 2026. The goal of the museum renovation is make a better environment for the museum visitors by upgrading the infrastructure and display of the museum contents.



ANIMAL HOUSE

Experimental Animals Unit: This unit provides experimental animals necessary for study and scientific research in university faculties, educational and government institutions and other universities in the Kingdom.



Animal House Supervisor:
Dr. Almuthanna K. Alkaraki



Animal House Technicians:

- Eng. Zakaria Bani Domi
- Mohammad Daifallah Al-Khasawneh
- Jaafar Bani Melhem

The research of faculty members and postgraduate students in the Faculties of Science, Medicine and Pharmacy at Yarmouk University is one of the basic tasks that the Experimental Animal Care Center guarantees to support them and provide the appropriate conditions for their reproduction and conduct experiments on them in conjunction with taking into account the rights of animals and preserving the environment. And rats, rabbits, chickens and guinea pigs.



THE GREENHOUSE

The greenhouse unit: This unit provides the plants needed for scientific study and research in university colleges, educational and government institutions, and other universities in the Kingdom. Where research of faculty members in the field of botanical and agricultural is one of the basic tasks of the Greenhouse Unit.

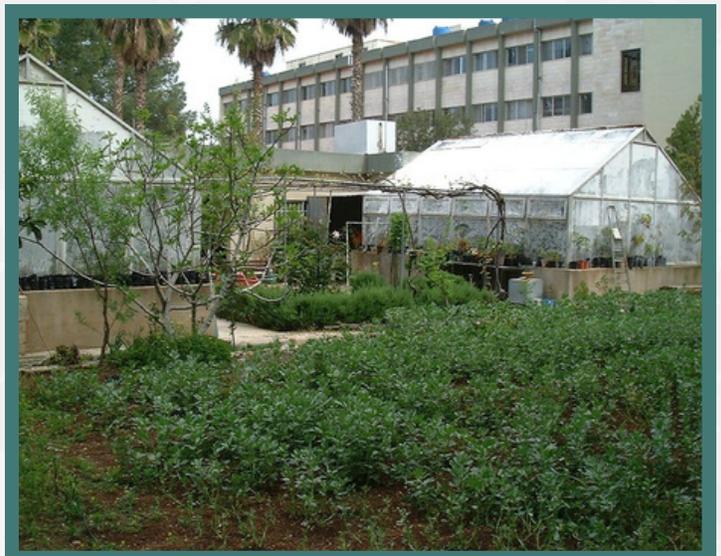


Greenhouse Supervisor:
Dr. Almuthanna K. Alkaraki

Greenhouse Technicians:

- Eng. Zakaria Bani Domi
 - Mohammad Daifallah AL-Khasawneh
 - Jaafar Bani Melhem
-

Appropriate conditions are provided for the reproduction of plants and conducting experiments in a suitable environment with expert hands and within the best specifications for planting production and management of botanical scientific experiments.



STATISTICAL ANALYSIS UNIT

The Statistical Analysis Unit, established in 2024, operates under the administrative umbrella of the Department of Statistics at the Faculty of Science. As the faculty's newest service-oriented initiative, the unit was created to provide advanced statistical and data analysis support for students, researchers, and members of the local community.

The unit offers a wide range of data analysis and programming services for scientific experiments and research projects, employing modern statistical simulation and modeling techniques.

In addition, it seeks to organize specialized training courses in statistical analysis and data science, in collaboration with various university centers, with the aim of broadening its academic and practical impact.

Statistical analysis plays a critical role across all scientific and academic disciplines. The unit draws on the collective expertise of faculty members from the Department of Statistics, whose diverse specializations in statistics and data science enhance the unit's ability to support complex and interdisciplinary research projects.

The services provided include descriptive and inferential statistical analysis, as well as the development of advanced models such as linear and nonlinear regression, generalized linear models, penalized regression, decision trees, random forests, cluster analysis, graphical models, structural equation modeling, Gaussian processes, and Dirichlet processes.

To deliver these services efficiently, the unit utilizes a variety of statistical software and programming platforms, including SPSS, R, SmartPLS, AMOS, EViews, Python, MATLAB, Mathematica, and Stata.



Head of Statistical Analysis Unit:
Dr. Ayman Rawashdeh

NITROGEN UNIT

The Nitrogen Unit at Yarmouk University is a specialized technical unit affiliated with the Faculty of Science, operating under the Department of Chemistry. The unit plays a vital role in supporting scientific research and laboratory experimentation by supplying both liquid and gaseous nitrogen required for various analytical and experimental applications.

The unit ensures the continuous availability of essential materials needed for the operation of analytical instruments and laboratory equipment across the Faculty of Science. Its services are fundamental to maintaining the efficiency and safety of research laboratories in chemistry and related scientific disciplines.

The Nitrogen Unit is managed by qualified technical staff with extensive practical experience, ensuring reliable operation and adherence to safety standards in handling cryogenic and compressed gases.

Beyond its technical role, the unit supports a broader research environment at the Faculty of Science, which includes advanced studies related to atmospheric nitrogen fixation. Notably, research efforts at the university have led to innovative work and patents focusing on nitrogen fixation on the surface of titanium dioxide (TiO_2), reflecting the faculty's active contribution to scientific advancement and applied research.

ABET Accreditation Certificates



The Faculty of Science at Yarmouk University has been awarded ABET accreditation for four academic programs after meeting international quality standards in higher education.

The accredited programs include Statistics, Chemistry, Mathematics, and Physics, reflecting the Faculty's commitment to academic excellence.

This achievement enhances the quality of education and strengthens graduates' competitiveness in local and international labor markets.



Application for National Academic Program Accreditation



هيئة الاعتماد وضمان الجودة
THE ACCREDITATION & QUALITY ASSURANCE COMMISSION

The Faculty of Science at Yarmouk University has applied for the National Accreditation of Academic Programs, issued by the Accreditation and Quality Assurance Commission for Higher Education Institutions, as part of its ongoing efforts to enhance academic quality and align its programs with nationally approved standards.

The national accreditation aims to ensure the quality of academic programs through clearly defined criteria related to study plans, faculty members, infrastructure, assessment methods, and student support services, contributing to improved educational outcomes and better alignment with labor market needs.

The application includes all Undergraduate programs of the Faculty of Science, namely:

Mathematics, Physics, Medical Physics, Chemistry, Biology, Statistics, and Earth and Environmental Sciences.

Obtaining this accreditation, upon fulfilling its requirements, is expected to strengthen confidence in the Faculty's academic programs, promote a culture of continuous improvement, and reinforce quality assurance practices, benefiting students, faculty members, and the institution as a whole.

Major Highlights

02



PRESIDENT OF YARMOUK UNIVERSITY VISITS THE FACULTY OF SCIENCE

The President of Yarmouk University, Professor Malek Al-Sharairi, visited the Faculty of Science on Sunday, November 2, 2025, as part of a series of introductory visits aimed at strengthening direct communication with the university's academic, administrative, and technical staff. He was accompanied by the Vice President, Professor Amjad Al-Nasser



Vice President Professor Amjad Al-Nasser noted that the Faculty of Science holds a distinguished academic legacy within the university, and that these meetings offer a valuable opportunity to exchange perspectives and ideas that contribute to the development of the educational process and the improvement of academic performance.

The meeting concluded with an open and constructive discussion, reflecting the university's dedication to direct engagement with its staff and its ongoing efforts to promote a culture of respect, participation, and shared responsibility. The President was received by the Dean of the Faculty of Science, Professor Muheeb Awawdeh, along with the vice deans, heads of academic departments, faculty members, and administrative and technical staff. During the meeting, the importance of fostering open dialogue and collaboration between the university administration and faculty members was emphasized, highlighting the role of such meetings in enhancing institutional belonging and teamwork.



PRESIDENT OF YARMOUK UNIVERSITY VISITS THE FACULTY OF SCIENCE

Professor Al-Sharairi expressed his appreciation for the efforts of the Faculty of Science staff in supporting education and scientific research, stressing that the university's strength lies in its classrooms and laboratories. He reaffirmed the administration's commitment to providing a motivating academic environment that encourages innovation, cooperation, and excellence.

During the meeting, an open and cordial discussion took place between the University President and the attendees, during which Dr. Al-Sharairi listened to several remarks and suggestions from academic, technical, and administrative staff members, who shared their views on ways to further develop the academic and technical work environment at the Faculty.



PRESIDENT OF YARMOUK UNIVERSITY VISITS THE FACULTY OF SCIENCE



WELCOMING NEW STUDENTS AND REINFORCES THEIR BELONGING TO SCIENCE AND YARMOUK

The Faculty of Science at Yarmouk University organized a welcoming orientation meeting for newly admitted students for the academic year 2025/2026 at Adnan Badran Auditorium, under the patronage of the Dean of the Faculty, Prof. Muheeb Awawdeh, and in the presence of faculty and administrative staff.

During the event, Prof. Muheeb Awawdeh welcomed the new students, emphasizing the importance of academic commitment, university values, and proper planning to achieve excellence. He also highlighted the history of Yarmouk University, the Faculty of Science, and its academic programs.



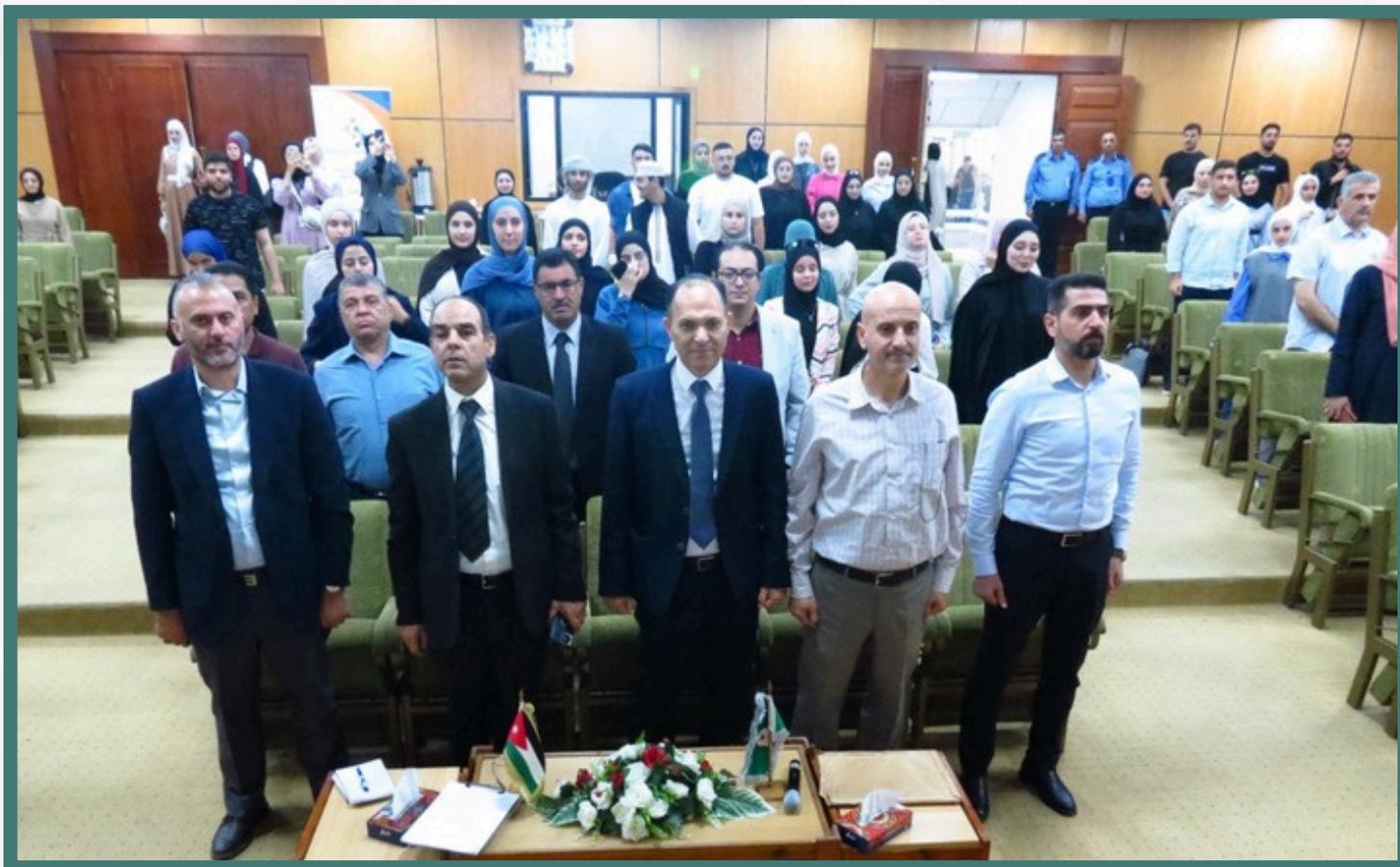
Dr. Mohammad Al-Kadiri, Vice Dean of the Faculty, spoke about academic advising and the importance of the University Competency Exam, while Prof. Molham Eyadeh, Assistant Dean for Student Affairs, addressed university regulations and student responsibilities.



The event concluded with a speech by Dr. Mohammad Al-Sabarini from the Deanship of Student Affairs, who outlined academic counseling services, student activities, and clubs, while student Noor Abu Safieh served as the master of ceremonies



**WELCOMING NEW STUDENTS AND REINFORCES
THEIR BELONGING TO SCIENCE AND YARMOUK**



FACULTY OF SCIENCE RESEARCHERS AMONG THE WORLD'S TOP 2%

Four Faculty Members from the Faculty of Science Ranked Among the World's Top 2% Researchers for 2025

Four faculty members from the Faculty of Science at Yarmouk University have been ranked among the top 2% of the world's most influential researchers for 2025, according to the Stanford University database, in collaboration with Elsevier, based on career-long impact and recent research performance.

Honored Faculty Members:



Prof. Idrees Al-Momani
Department of Chemistry



Prof. Mohammed Al-Refai
Department of Mathematics



Prof. Abedel-Karrem Al-Omari
Department of Mathematics



Prof. Mahmoud Al-Qudah
Department of Chemistry

This achievement highlights the strong research profile of the Faculty of Science and reflects Yarmouk University's commitment to excellence in scientific research and international academic recognition.

The Faculty extends its sincere congratulations to the distinguished professors for their outstanding contributions and academic achievements.

PRESIDENT OF YARMOUK UNIVERSITY DISCUSSES SCIENTIFIC COOPERATION WITH THE JORDAN ATOMIC ENERGY COMMISSION AND SESAME

The President of Yarmouk University, Professor Malek Al-Sharairi met with Professor Feras Afaneh, Commissioner for Nuclear Sciences at the Jordan Atomic Energy Commission and Head of the Jordanian National Committee for SESAME, to discuss ways of enhancing scientific and research cooperation between the two institutions.



The meeting was attended by the Dean of the Faculty of Science Prof. Muheeb Awawdeh, Head of Department of Physics Dr. Qassem Mohaidat and Dr. Ali Al-Momani serves as Yarmouk University's representative on the National Committee of the Synchrotron Center.

During the meeting, it was agreed that Yarmouk University will host the 14th Jordanian Synchrotron Users Workshop in April 2026. The possibility of signing a memorandum of understanding was also discussed to strengthen collaboration frameworks and support advanced scientific research. The meeting concluded with an exchange of commemorative shields, reflecting the strong bilateral relations.

After the meeting, Professor Feras Afaneh delivered a lecture at the Faculty of Science highlighting research opportunities at the Jordan Atomic Energy Commission laboratories and the SESAME facility, emphasizing their role in supporting national research projects. The event reflects Yarmouk University's commitment to strengthening partnerships with leading national institutions and promoting scientific research and innovation.

FACULTY OF SCIENCE ADVISORY BOARD

In its ongoing efforts to enhance the quality of education and align academic outcomes with labor market needs, the Faculty of Science has announced the formation of an Advisory Board composed of leading academics and experts from various scientific and professional sectors.

The board members include:



Professor Feras Afaneh –
Commissioner of Nuclear Science at
the Jordan Atomic Energy
Commission and Chair of the
Jordanian National Committee for
SESAME



Eng. Mohammad Al-Azzam –
Administrative Director, Irbid
Governorate Council



Dr. Walid Al-Khatib – Director of
Public Opinion and Survey Studies,
Center for Strategic Studies,
University of Jordan



Mr. Imad Fakhouri –
Director of Al-Mawqea Company



Dr. Bashar Bataineh –
Director of Pella Pharmaceutical
Industries



Mr. Laith Dweikat –
Director of Rawabi Al Farah Company



Eng. Sami Telfah –
Director of Telfah Trading
Company



Dr. Abdul Hafiz Abu Orabi-
Director of Irbid Directorate of
Agriculture



Eng. Mahmoud Al-Shorman –
CEO of Al-Shorman Medical
Devices



Mr. Muneeb Rawashdeh -
Businessman

The board aims to support the faculty in developing academic programs, reviewing curricula, and providing insights to ensure graduates are well-prepared for local and global challenges. Regular meetings will focus on enhancing educational processes and strengthening collaboration with national institutions.

This initiative reflects Yarmouk University's strategy to foster innovative learning environments and active community partnerships that keep pace with modern scientific and technological advancements.

Awards & Promotions

03



FACULTY OF SCIENCE CELEBRATES ACADEMIC PROMOTIONS

The Faculty of Science extends its heartfelt congratulations to its colleagues on their well-deserved academic promotions.

The faculty, represented by the dean and all academic and administrative staff, wishes them continued success and excellence in their scholarly and research endeavors.



Professor Amal Harb

Department of Biological Sciences
Achieving the rank of Full Professor



Professor Khalid Gazagzeh

Department of Mathematics
Achieving the rank of Full Professor.



Professor Rami Al-Ahmad

Department of Mathematics
Achieving the rank of Full Professor



Dr. Mohammad Abo Gamar

Department of Biological Sciences
Achieving the rank of Associate Professor

PROF. HANAN MALKAAWI WINS “BEST ARAB SCIENTIST IN MICROBIAL BIOTECHNOLOGY” AWARD FOR 2025

Prof. Hanan Malkawi, a faculty member in the Department of Biology at the Faculty of Science, Yarmouk University, won the “Best Arab Scientist in Biotechnology – Microbial Biotechnology” Award for 2025.

The award was granted following evaluation by international scientific committees using advanced global criteria, including artificial intelligence-based assessment tools.

The award was presented during the Arab-Asian Annual Conference on Biotechnology 2025, organized by the Bibliotheca Alexandrina in Egypt. This achievement reflects Prof. Malkawi’s distinguished scientific contributions and her leading role in advancing microbial biotechnology research in the Arab region.

Prof. Malkawi also participated in the conference as a keynote speaker, addressing recent research trends in biotechnology and sustainability in arid and semi-arid environments.



This recognition further highlights Yarmouk University’s commitment to supporting scientific research and innovation at both regional and international levels.

PROF. AHMAD AL-SALMAN SOLVES A LONG-STANDING OPEN MATHEMATICAL PROBLEM

The Scientific Research and Innovation Support Fund announced the appointment of Professor Ahmad Al-Salman as a member of the Fund's Basic Sciences Committee, in recognition of his academic expertise and contributions to scientific research.

He was also appointed to a specialized committee at the National Center for Curriculum Development, where he will contribute to the development of the mathematics exam and question banks, aiming to enhance assessment standards and improve the quality of the educational process in Jordan.

This appointment reflects the strong confidence in national competencies and highlights Professor Al-Salman's leading role in advancing scientific research and curriculum development.



AL-SALMAN MEMBER OF THE FUND'S BASIC SCIENCES COMMITTEE

Prof. Ahmad Al-Salman from the Department of Mathematics at the Faculty of Science, Yarmouk University, succeeded in solving an open mathematical problem dating back to 1992, following more than 27 years of dedicated research.

His work addresses a challenging problem in harmonic analysis, contributing new approaches to the study of Rough Oscillatory Singular Integral Operators. The research was published in the prestigious journal *Forum Mathematicum*, marking a significant achievement in the field.

Prof. Al-Salman has been a member of the World Academy of Sciences (TWAS) since 2019, in recognition of his valuable contributions to mathematics. This accomplishment underscores both his academic excellence and the strong research environment at the Faculty of Science.

YARMOUK UNIVERSITY HONORS PROFESSORS MALKAWI AND AL-SALMAN

Yarmouk University's Faculty of Science held a ceremony to honor Professor Hanan Malkawi and Professor Ahmed Al-Salman for their outstanding scientific contributions. The event was attended by the Chairman of the Board of Trustees, Professor Dr. Mahmoud Al-Shiyab, and President Professor Dr. Malek Al-Sharairi.



Professor Al-Shiyab highlighted that the university celebrates researchers who elevate Jordan's presence in international science. Dean Dr. Muheeb Awawdeh emphasized the lasting impact of their work on the academic community.

Professor Malkawi, awarded "Best Arab Scientist in Biotechnology 2025", and Professor Al-Salman, recognized for solving a mathematical problem open since 1992, expressed gratitude, noting that their achievements reflect years of dedication, perseverance, and commitment to advancing knowledge.



Conferences

04



YARMOUK UNIVERSITY HOSTS 9TH INTERNATIONAL CONFERENCE: “WOMEN IN SCIENCE WITHOUT BORDERS”

Yarmouk University inaugurated the 9th International Conference “Women in Science Without Borders: Building an Inclusive and Resilient Future Without Barriers,” under the patronage of Her Highness Alsharefa Bodur bint Abdulilah Al-Rubai’an. The event was organized by the Faculty of Science in collaboration with the Princess Basma Center for Jordanian Women Studies, the Center for Refugee, Displaced, and Forced Migration Studies, and in partnership with WISWB and SHGS.



In her opening speech, Her Highness emphasized that women’s participation in science is essential for a balanced and innovative world. She highlighted that scientific progress depends on creativity and contribution, not gender. Professor Ruba Al-Bataineh, Vice President of Yarmouk University, stressed the university’s commitment empowering women in science and providing opportunities

for female students and professionals to excel nationally and internationally. Professor Muheeb Awawdeh, Dean of the Faculty of Science, highlighted that including women in research, technology, and decision-making is essential for building an inclusive future. He noted that the conference serves as a platform to break barriers and strengthen women’s roles in STEM fields. The conference featured 24 researchers addressing women’s empowerment, AI and cybersecurity for women, volunteerism, and the broader role of women in science, reflecting their multidimensional to society



YARMOUK UNIVERSITY HOSTS 9TH INTERNATIONAL CONFERENCE: "WOMEN IN SCIENCE WITHOUT BORDERS"



THE 11TH PETRA SCHOOL OF PHYSICS

Under the patronage of His Royal Highness Prince Al Hassan bin Talal, President of the Higher Council for Science and Technology, the 11th Petra International School of Physics was held at Yarmouk University and the University of Jordan under the theme “Artificial Intelligence in Natural Sciences.” The School was jointly organized by the Faculties of Science at Yarmouk University and the University of Jordan, in cooperation with the Higher Council for Science and Technology and the Abdus Salam International Centre for Theoretical Physics (ICTP) in Italy. The opening ceremony was attended by Prof. Malek Al-Sharairi, President of Yarmouk University, and Prof. Nadhir Obeidat, President of the University of Jordan.



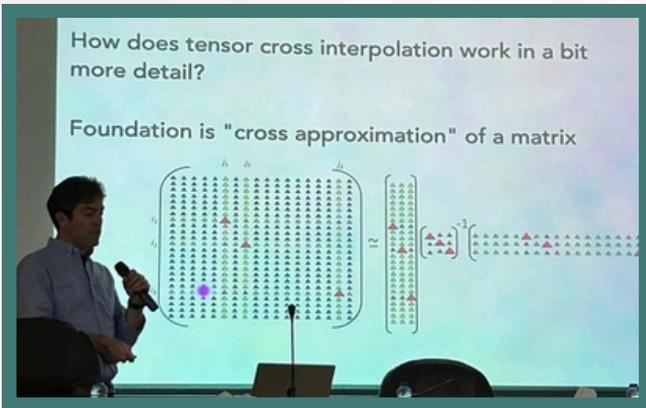
His Highness stressed that research, observation, and learning are the essence of human development. He highlighted the importance of this creative curiosity, particularly during times of war, escalating crises, and conflicts, and the crucial need to explore human values. He further emphasized that every individual has the right to think creatively and pursue scientific knowledge, including that of humanity.

Prof. Malek Al-Sharairi, President of Yarmouk University, stated that the Petra School of Physics is one of the oldest and most prestigious scientific institutions in Jordan. Since its establishment over forty years ago, it has served as a leading scientific platform where scientists from different generations convene to exchange ideas, learn from diverse cultures, and foster scientific collaboration across borders.



THE 11TH PETRA SCHOOL OF PHYSICS

The School featured a series of scientific lectures and specialized sessions focusing on the applications of artificial intelligence in physics and the natural sciences. The topics covered included quantum computing, materials science, computational biophysics, molecular dynamics, machine learning, and data-driven scientific discovery, highlighting the growing role of artificial intelligence in accelerating research and enhancing the understanding of complex physical systems.

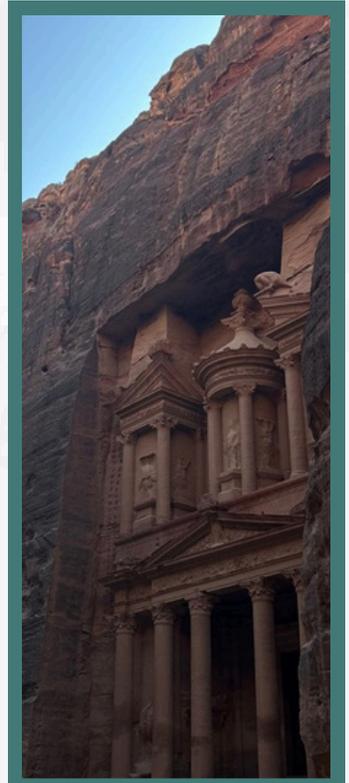


The activities of the School concluded at Yarmouk University, where the third and final scientific day included several advanced lectures and sessions related to physics.

The closing session of the conference was chaired by Prof. Nehad Tashtoush, Prof. Anas Ababneh, and the President of the Petra International School of Physics, Prof. Nidal Irshaidat. As part of the program, participants also visited the Jordanian Heritage Museum at the Faculty of Archaeology and Anthropology.



THE 11TH PETRA SCHOOL OF PHYSICS



PARTICIPATION OF FACULTY MEMBERS IN ACADEMIC CONFERENCES

Prof. Amer Jaafar Al-Abdul Hamid participated in the 12th International Conference on Computational and Experimental Science and Engineering (ICCESEN 2025), held in Antalya, Turkey. He presented a research paper entitled “Retarding Effect of the Mediating Sulfane (-S-) Group Chelation Efficacy of Thiolic-SSulfur Toward Mercury ... A DFT Theoretical Study”, highlighting advanced theoretical insights in computational chemistry.



Dr. Taghreed Al-Jazazi took part in the International Conference on Technology, Engineering and Science (IConTES), held in Antalya, Turkey. She presented her research titled “Synthesis and Characterization of Halfsandwich Iron Chalcogenopropargylcarbonato Complexes with CO-Releasing Properties”, contributing to emerging applications in medical and industrial chemistry.

Dr. Tareq Al-Shbool represented the Faculty of Science at an international scientific conference in Antalya, Turkey. He delivered a lecture entitled “Molecular Docking Studies, Schiff Base Ligands, Transition Metal Complexes, Antibacterial Evaluation, DFT Calculations”, presenting advanced research in organic, inorganic, and computational chemistry.



Prof. Khaldoon Al-Qudah participated in the Arab Water and Food Forum held in the Sultanate of Oman, under the theme “Enhancing Efforts for Water Accounting, Water Harvesting, and Arabic Coffee Productivity in the Face of Climate Change.” His contribution focused on sustainable water harvesting techniques in arid regions, inspired by Nabataean engineering practices.

Dr. Abdullah Mustafa Al-Rawabdeh participated in the Mediterranean Geosciences Union Conference (MedGU-25), held at the University of Athens, Greece. He presented a paper entitled “Landslide Susceptibility Mapping Using Big Data and Ensemble-Based Machine Learning Models ... Jordan”, highlighting innovative approaches to geological risk assessment and infrastructure safety.



Prof. Riyadh Muhaidat participated in the International Conference on Computational and Experimental Science and Engineering (ICCESEN-2025) in Antalya, Turkey. He presented a research paper on C4 photosynthesis in Boerhavia plants, offering new insights into plant physiology with significant ecological and agricultural implications.

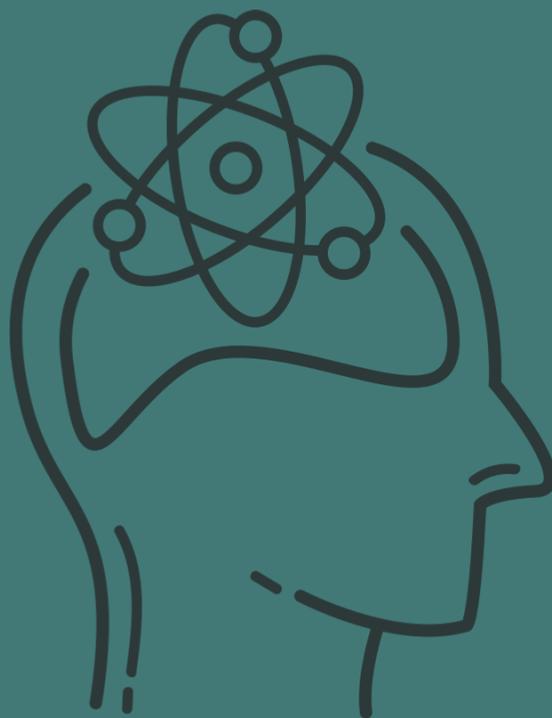
Prof. Wissam Al-Khatib participated in the International Scientific Conference on Life Sciences and Health, held in Kenitra, Morocco. He delivered a scientific presentation on the genetic diversity and chemical composition of selected plant species in Jordan, contributing to discussions that support scientific advancement and academic collaboration.



Prof. Khaled Al-Qaoud participated in the Medica and Compamed 2025 Exhibition and Forum, held in Düsseldorf, Germany. His participation focused on exploring the latest innovations in immunological and molecular diagnostics, with particular emphasis on early cancer detection and AI-based diagnostic technologies.

Scientific Days

05



CELEBRATING WORLD STATISTICS DAY



Under the patronage of Yarmouk University Vice President Prof. Amjad Al-Nasser, the Faculty of Science organized a celebration of World Statistics Day, attended by the Dean of the Faculty Prof. Muheeb Awawdeh and the Head of the Statistics Department Dr. Ayman Bakleezi.

In his opening remarks, Prof. Al-Nasser explained the distinction between mathematics and statistics, noting that mathematics represents the umbrella of all sciences, while statistics forms the backbone of scientific research and studies. He highlighted the wide applications of statistics across various fields and emphasized this year's theme, "High-Quality Statistics and Data for Everyone," stressing the role of accurate data in informed decision-making and sustainable development.



For his part, Prof. Awawdeh stated that celebrating World Statistics Day is an opportunity to shed light on the pivotal role of statistics in contemporary life, describing it as the language of data that supports sound decisions and future planning. He expressed pride in the research and academic contributions of the Statistics Department and its role in preparing qualified graduates to meet data-driven challenges.

Meanwhile, Dr. Bakleezi noted that World Statistics Day is celebrated globally every five years on October 20, in accordance with a United Nations General Assembly resolution, recognizing the importance of reliable statistics in monitoring progress toward sustainable development goals. He affirmed the Faculty of Science's commitment to advancing this vital discipline and strengthening research and academic excellence.



CELEBRATING WORLD STATISTICS DAY

On the sidelines of the celebration, a number of faculty members and students were honored in recognition of their efforts and achievements.



CELEBRATION OF WORLD MEDICAL PHYSICS DAY

The Faculty of Science at Yarmouk University celebrated World Medical Physics Day under the theme: "Medical Physics and Modern Technologies: Shaping the Next Decade,"

The ceremony was held at Adnan Badran Auditorium, and attended by the Dean of the Faculty, Prof. Muheeb Awawdeh, and the Head of the Physics Department, Dr. Qassem Mohaidat, along with faculty members, staff, students, and guests from health and educational institutions.



The ceremony opened with welcoming remarks by Dr. Qassem Mohaidat, who highlighted the importance of Medical Physics and the vital role of medical physicists in supporting healthcare services and advanced medical technologies.

In his address, Prof. Muheeb Awawdeh expressed his pride in organizing this scientific event, emphasizing Yarmouk University's commitment to applied scientific disciplines with a direct impact on the healthcare sector.

The program included a scientific video delivered by master student Louzan Alramahi and supervised by

Prof. Anas Ababneh in which it reviewed the development of Medical Physics at both the local and global levels, highlighting the growing role of medical physicists in diagnosis, treatment, and improving the quality of healthcare services.



CELEBRATION OF WORLD MEDICAL PHYSICS DAY

The event also featured specialized scientific lectures.

Mr. Haitham from the King Hussein Cancer Center delivered a lecture on Flash Radiotherapy and its Future Prospects in Cancer Treatment, while Mr. Diaan Qaisiyeh from the Energy and Minerals Regulatory Commission discussed the role of medical physicists in radiation practices and occupational safety.



At the conclusion of the event, the speakers, organizers, and distinguished students were honored in appreciation of their contributions to the success of the celebration. The ceremony concluded with remarks reaffirming the Faculty of Science's role in promoting scientific awareness, innovation, and excellence in medical physics education and research.



CELEBRATION OF WORLD MEDICAL PHYSICS DAY



Scientific Trips & Visits

06



PHYSICS STUDENTS VISIT JORDAN RESEARCH AND TRAINING REACTOR (JRTR)

On December 23, 2025, undergraduate and graduate students from the Department of Physics at Yarmouk University, supervised by Dr. Ayman Bataineh, conducted a scientific visit to the Jordan Research and Training Reactor (JRTR). The visit aimed to link theoretical knowledge with practical applications in nuclear physics, neutron techniques, and radiation safety, while exploring opportunities for student training and research projects.



The program began with an introductory lecture covering the reactor's history, components, functions, and applications. Students then toured key facilities, including the reactor core (under safety protocols), the radioisotope production lab, and the neutron irradiation lab, learning about operational procedures, safety measures, and research methodologies. Future plans for the reactor, such as a semiconductor production lab, were also discussed. The visit concluded with recommendations for specialized training courses and a framework for ongoing collaboration,



providing students with regular hands-on learning and research opportunities. The Faculty of Science and JRTR administration were acknowledged for their support and guidance, making the visit a valuable educational experience for all participants.

EARTH AND ENVIRONMENTAL SCIENCES STUDENTS CONDUCT FIELD TRIPS

Under the supervision of Prof. Nabil Saifuldin, students from the Department of Earth and Environmental Sciences, Applied Geology Program at Yarmouk University conducted a series of field trips as part of the AG 342 – Field Techniques course. These trips aimed to translate theoretical knowledge into practical application.

The excursions began with an emphasis on field preparation and safety, including proper attire and site assessment. Students were trained on the following key aspects: Using topographic maps and locating positions with landmarks and GPS systems. Collecting geological data, including describing rock and mineral components, identifying rock types, and using diluted hydrochloric acid, hand lenses, measuring tapes, and geological hammers.

Sampling techniques for chemical analysis, physical property studies, and preparing microscopic slides.

Measuring geological structures in Wadi Al-Ghafar, including faults and layer dips.

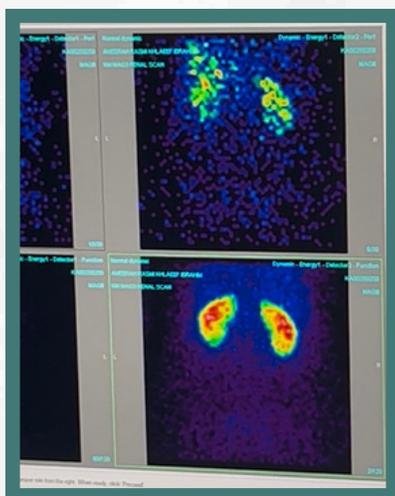
Mapping and visualization, transferring field data onto topographic maps, drawing cross-sections, and constructing comprehensive geological maps. These field trips provided students with hands-on experience in modern geological mapping techniques, reinforcing their understanding of applied geology and enhancing their skills for future research and professional work.



MEDICAL PHYSICS MASTER'S STUDENTS VISIT KING ABDULLAH UNIVERSITY HOSPITAL

As part of the faculty-led academic activities, Master's students in Medical Physics, enrolled in the Medical Imaging and Nuclear Medicine courses, visited King Abdullah University Hospital on Tuesday, December 23, 2025, under the supervision of Prof. Molham Eyadeh and Prof. Zaid Ababneh. The visit aimed to provide hands-on exposure to the latest medical devices and practical applications in their field.

Students toured several departments, including Diagnostic Radiology and Nuclear Medicine, learning about modern imaging systems, clinical applications, and radiation safety protocols.



They explored X-ray machines, contrast imaging systems, MRI, 3D mammography, gamma cameras, and functional imaging techniques such as thyroid scans.

The visit included the Hot Lab and radiopharmaceutical preparation laboratory, highlighting safety procedures, radiation measurement, and practical workflows. Students actively engaged with the staff, asking questions and gaining insight into clinical practice.

This visit strengthens the link between theoretical knowledge and clinical applications, enhances practical skills, and prepares graduates to keep pace with advances in medical technology. The program concluded with thanks to the hospital staff for their support and collaboration.



EARTH AND ENVIRONMENTAL SCIENCES STUDENTS VISIT JORDAN SEISMOLOGICAL OBSERVATORY

Students from the Department of Earth and Environmental Sciences at Yarmouk University conducted a scientific visit to the Jordan Seismological Observatory, affiliated with the Ministry of Energy and Mineral Resources. The visit aimed to provide students with hands-on learning opportunities in seismic monitoring and applied geosciences.

Under the supervision of Dr. Rasheed Jaradat and Dr. Abdulla Al-Rawabdeh, the visiting group included undergraduate Applied Geology students and graduate Applied Geoinformatics students. They were welcomed by engineer Ghassan Sweidan, geophysicist Anas Al-Maaytah, and geologist Murad Hamimat, who presented the history, development, and technical aspects of the observatory, along with the two national seismic networks—



Strong Motion and Weak Motion networks—used to monitor earthquakes in Jordan and the surrounding region. Students learned how to analyze seismic records, distinguish between local, regional, and distant earthquakes, and recognize the characteristics of controlled explosions.



They also explored modern instruments and technologies used in seismic monitoring and data processing. The visit highlighted the ongoing collaboration between Yarmouk University and the Ministry of Energy, and the university's hosting of a Strong Motion Seismic Station within the department, which enhances opportunities for practical training, .

PHYSICS STUDENTS VISIT JORDAN STANDARDS AND METROLOGY ORGANIZATION

Students from the Department of Physics at Yarmouk University, supervised by Mr. Abd Alghany Jaradat, visited the Jordan Standards and Metrology Organization (JSMO) to explore the role of calibration laboratories in ensuring accurate measurements and compliance with national and international standards.



During the visit, students attended a lecture on JSMO's mission and toured the laboratories to observe calibration processes for scales, electrical, and thermal instruments. The staff highlighted the importance of traceability and maintaining global standards.

The visit provided students with hands-on experience, deepened their understanding of measurement accuracy and uncertainty, and showcased the scientific and societal role of national institutions, aligning with the department's commitment to applied learning.



EARTH AND ENVIRONMENTAL SCIENCES STUDENTS CONDUCT FIELD TRIP TO UMM QAIS

On December 6, 2025, students from the Applied Geology program at Yarmouk University, supervised by Dr. Talal Al-Momani, undertook a field trip to Umm Qais in Irbid. The trip, part of the Minerals, Industrial Rocks, and Igneous & Metamorphic Rocks courses, aimed to enhance practical understanding of geological phenomena in real environments.



Students studied basalt, marble, and limestone rocks, linking their geological properties to historical construction uses in the city's buildings, columns, and streets. Activities included field documentation, rock photography, geological mapping, and exploring the economic and industrial applications of different rock types.

The trip concluded with an interactive discussion, where students presented their observations and reflected on applying these insights to future coursework and research projects, reinforcing both their practical skills and scientific understanding.



MEDICAL PHYSICS STUDENTS VISIT KING HUSSEIN CANCER CENTER

On Saturday, 20/12/2025, Medical Physics students at Yarmouk University, enrolled in the Radiation therapy course, conducted a scientific visit to the King Hussein Cancer Center under the supervision of Prof. Anas Ababneh. The visit aimed to familiarize students with the latest radiotherapy technologies and link theoretical knowledge with practical applications.

The delegation was welcomed by Mr. Samer Al-Hayyat, Head of the Medical Physics Department, followed by a presentation by Mr. Mohammad Al-Sheikh, who explained the roles of medical physicists in modern treatment centers. Students toured the Center's equipment, learning about the function of each system and treatment planning using specialized software.

The visit concluded with an open discussion addressing training opportunities and professional development. Prof. Anas Ababneh thanked the Center for its hospitality and emphasized the importance of strengthening collaboration between Yarmouk University and the Center, enhancing the impact of ongoing academic and research cooperation.



SCIENTIFIC FIELD TRIP TO AL-YOUM FOOD INDUSTRIES

The Faculty of Science at Yarmouk University organized a scientific field trip for its students to Al-Youm Food Industries Company in Dhalil–Hallabat, Amman, on January 7, 2026, under the supervision of Dr. Rabe’ah Rawashdeh and with the support of the Irbid Chamber of Industry.

The visit aimed to familiarize students with modern industrial food production systems, food safety concepts, and quality control procedures, while highlighting the importance of integration between agricultural and industrial sectors. During the tour, students observed automated production lines, learned about key production stages, and were introduced to the company’s commitment to international quality and safety standards.

The field trip provided students with valuable practical exposure, helping them connect theoretical knowledge with real-world applications, and reinforcing the role of scientific education in supporting sustainable industrial development.



EARTH AND ENVIRONMENTAL SCIENCES STUDENTS CONDUCT FIELD TRIP TO TALL AL-ARTIN AND UMM AL-JAMAL

On November 15, 2025, students from the Applied Geology program at Yarmouk University, supervised by Dr. Mohammad Al-Qudah and Dr. Talal Al-Momani, undertook a field trip to Tall Al-Artin and Umm Al-Jamal in Mafraq. The trip, part of the Minerals, Industrial Rocks, and Igneous & Metamorphic Rocks courses, aimed to strengthen practical understanding of geological phenomena in real environments.

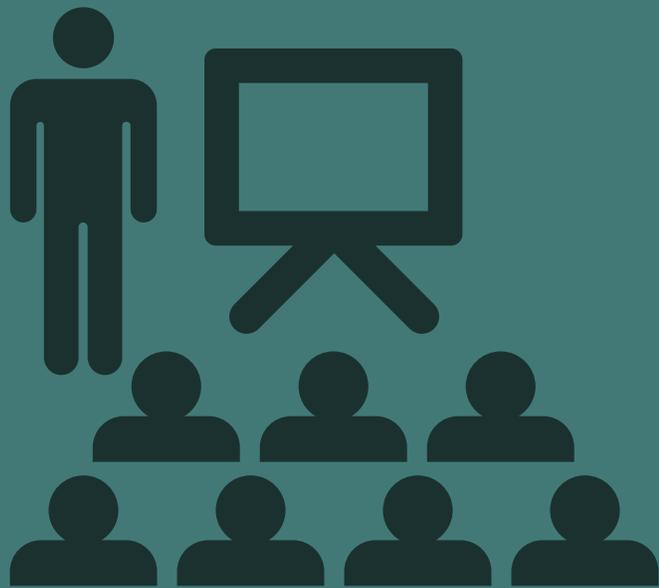
Students explored the region's volcanic activity, studying basalt, pyroclastic materials, and zeolitic tuffs, while applying field techniques such as rock section photography, sample collection, and documentation. They also analyzed the geological factors shaping the terrain, investigated the economic uses of minerals (e.g., pozzolanic cement, agricultural, and environmental applications), and linked the archaeological heritage of Umm Al-Jamal with its geological context.

The trip concluded with an interactive session, where students presented their findings and discussed applying these observations to future coursework and research projects, enhancing their practical skills and field research readiness.



Lectures

07



RESEARCH OPPORTUNITIES AT THE JORDAN ATOMIC ENERGY COMMISSION AND SYNCHROTRON FACILITY

Under the patronage of Science Faculty Dean, Prof. Muheeb Awawdeh, and organized by the Department of Physics, the event was attended by the Head of the Department Dr. Qassem Mohaidat, Dr. Ali Al-Momani serves as Yarmouk University's representative on the National Committee of the Synchrotron Center, and number of academic and administrative staff members. Prof. Feras Afaneh delivered a lecture entitled "Research Opportunities in the Laboratories of the Jordan Atomic Energy Commission and the Synchrotron Facility" at Adnan Badran Auditorium, Faculty of Science, in the presence of a number of faculty members and university students.

During the lecture, he presented the most advanced laboratories at the Jordan Atomic Energy Commission and ways to benefit from them in applied research, in addition to reviewing the operating beamlines at the Synchrotron Center and their scientific capabilities in supporting national research projects.

These meetings come within Yarmouk University's orientation toward strengthening its ties with leading national institutions and opening new horizons for research collaboration and scientific innovation.



THE WATER SITUATION IN THE HASHEMITE KINGDOM OF JORDAN

As part of the Faculty of Science activities, Prof. Khaldoon Al-Qudah delivered a public lecture on the water situation in the Hashemite Kingdom of Jordan. The lecture highlighted key challenges facing the water sector, including water scarcity, limited resources, low per capita water availability, and heavy reliance on rainfall, noting that low precipitation in the previous season worsened the situation.

The lecture also discussed proposed solutions, most notably the Aqaba Gulf water desalination



and treatment project agreed upon in 2025, in addition to expanding water-harvesting initiatives, reusing treated wastewater, and promoting water conservation policies.

The lecture was held online via the FreeConferenceCall (FCC) platform under the patronage of the President of the Middle Technical University in Baghdad, with participation from faculty members of Yarmouk University. The Dean of the Faculty of Science Prof. Muheeb Awawdeh emphasized the importance of such lectures in strengthening regional academic cooperation and supporting future research partnerships.

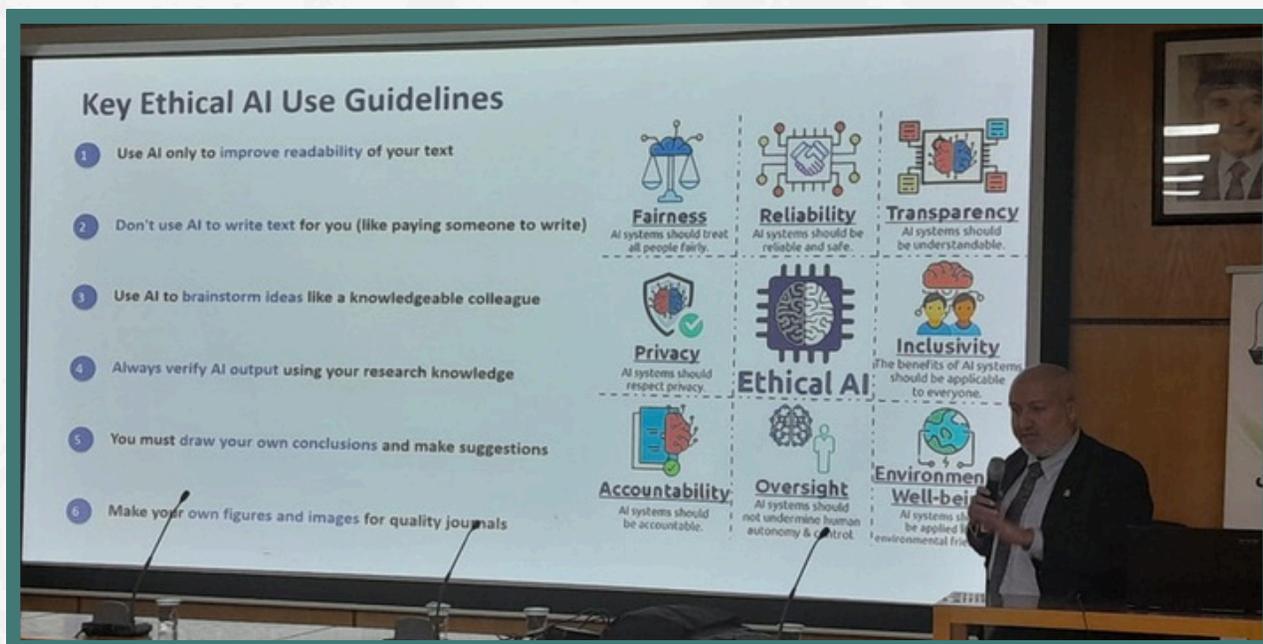


LECTURE ON “ARTIFICIAL INTELLIGENCE AND ITS MODERN APPLICATIONS IN SCIENTIFIC RESEARCH”

The Faculty of Science, in collaboration with the Faculty of IT and Computer Science, hosted a lecture titled “Artificial Intelligence and Its Modern Applications in Scientific Research” by Prof. Khaled Nawasreh, Vice Dean of the IT Faculty, at Adnan Badran Auditorium.

Dr. Nawasreh highlighted the role of AI in supporting researchers, accelerating data analysis, improving research quality, and integrating AI tools in literature review, hypothesis formulation, data collection, statistical analysis, and scientific writing. He emphasized responsible AI use and keeping pace with technological developments.

The Faculty thanked Prof. Nawasreh for sharing his expertise, noting that the lecture contributes to enhancing students’ and researchers’ skills, fostering innovation, and supporting digital transformation in higher education.



LAUNCH OF THE “SURVEY” INITIATIVE AT THE FACULTY OF SCIENCE

A team from the Accreditation and Quality Assurance Center held a meeting on Sunday, November 23, 2025, with students of the Faculty of Science to launch the “Survey” initiative, which aims to increase students’ response rates to university surveys.



The meeting was attended by Tariq Balasma and Hanaa Bani Atta from the Center, who explained the importance of surveys in measuring student satisfaction and their role in supporting continuous improvement within the University. The speakers also highlighted that the initiative seeks to enhance students’ participation in surveys to ensure accurate results that reflect the reality of the educational process and contribute to improving the academic experience and services provided to students.



THE HUSSEIN BIN TALAL LIBRARY AND THE FACULTY OF SCIENCE ORGANIZE A SCIENTIFIC LECTURE ON OPEN PROBLEMS IN MATHEMATICS

The Hussein Bin Talal Library, in cooperation with the Faculty of Science, organized a scientific lecture titled “Open Problems in Mathematics and Their Impact”, delivered by Professor Ahmad Al-Salman from the Department of Mathematics, as part of the University’s efforts to promote scientific activity and research culture.



The lecture was attended by the Director of the Library Professor Mohammad Al-Shakhatreh, the Vice Dean of the Faculty of Science Dr. Mohammad Al-Qadiri, along with faculty members, students, and academic staff.

Prof. Al-Salman discussed the concept and importance of open problems in mathematics, highlighting their role in advancing scientific progress, inspiring researchers, and opening new avenues for research. The lecture concluded with an interactive discussion that emphasized the value of such scientific events in fostering critical thinking and research engagement

ADDITIONAL ACADEMIC LECTURES

The Department of Biological Sciences at the Faculty of Science organized a lecture entitled:

"Modern Topics and Techniques Related to Microbiology".

The lecture was held on Monday, November 10, 2025, at the Adnan Badran Amphitheater, Faculty of Science.

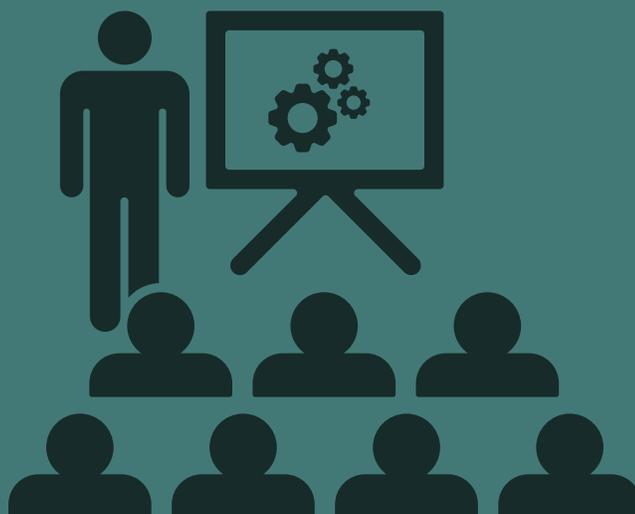
Under the patronage of Prof. Muheeb Awawdeh, Dean of the Faculty of Science, the Accreditation and Quality Center organized a lecture entitled: "The Importance of Jordanian Accreditation and Proper Preparation", targeting academic and administrative staff at the Faculty of Science. The lecture was held on Wednesday, November 12, 2025.

The Department of Earth and Environmental Sciences at the Faculty of Science organized an introductory lecture entitled: "National Research Institute of Astronomy and Geophysics (NRIAG) and its Role in Science and Technology", delivered by Prof. Mahmoud Makawy from the National Research Institute of Astronomy and Geophysics (NRIAG), Arab Republic of Egypt. The lecture took place on Wednesday, November 12, 2025.

Under the patronage of the Dean of the Faculty of Science, and in cooperation with the Arab Academy for Research Ethics, the Department of Life Sciences organized a scientific lecture entitled: "Human Research Ethics and IRB Essentials for Investigators", presented by Dr. Al-Muthanna Al-Karaki from the Department of Life Sciences. The lecture was held on Wednesday, November 26, 2025.

Workshops

08



PHYSICS DEPARTMENT HOSTS NUCLEAR SAFETY AND SECURITY DELEGATION

Under the patronage of Prof. Muheeb Awawdeh, Dean of the Faculty of Science, the Physics Department, in cooperation with the Energy and Minerals Regulatory Commission, organized a workshop titled “What is Radiation and What is Nuclear Energy?” at Adnan Badran Hall. The event included faculty members, students, and a visiting delegation from the Nuclear Safety and Security Culture Committee.



The workshop featured presentations on radiation types, properties of alpha, beta, gamma rays, neutrons, and X-rays, natural and artificial radiation sources, uranium enrichment and peaceful uses, nuclear safety and security systems, and Jordan’s nuclear infrastructure. The session concluded with interactive discussions and student awards for active participation.

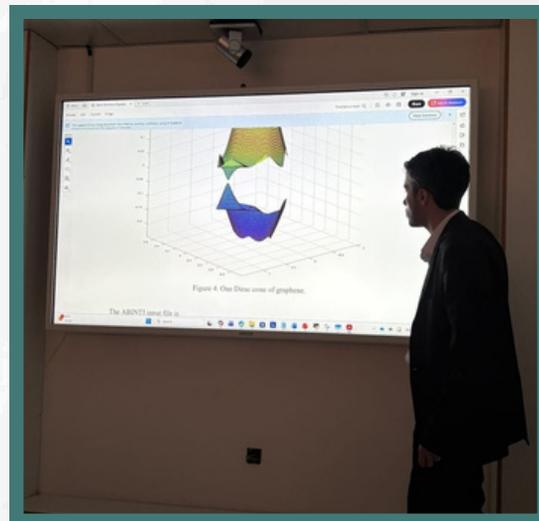


PHYSICS DEPARTMENT HOSTS NUCLEAR SAFETY AND SECURITY DELEGATION

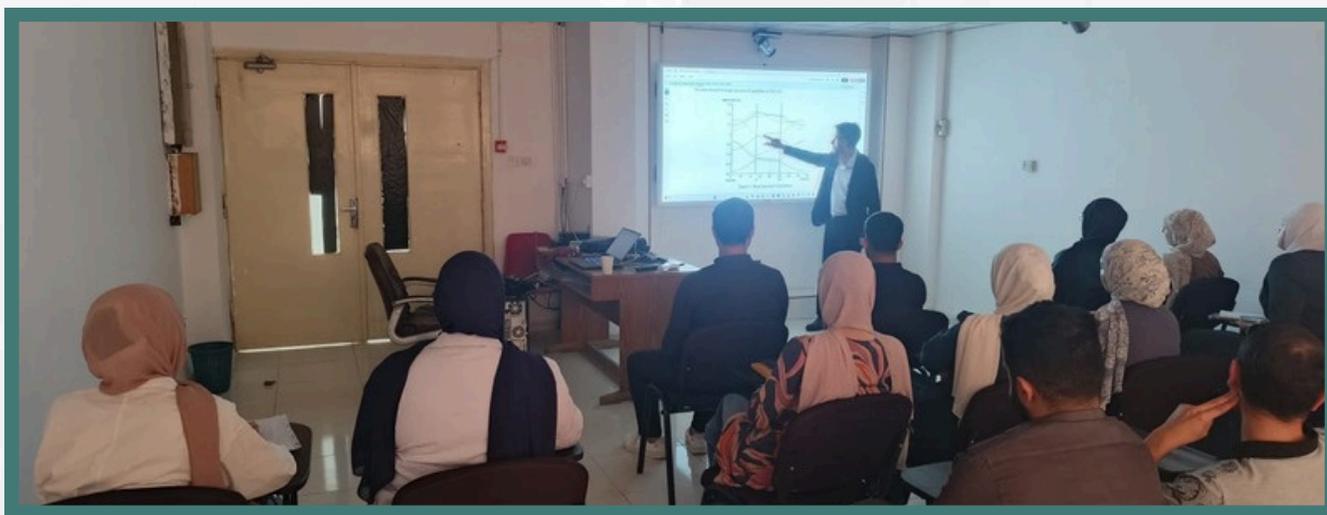


SCIENTIFIC WORKSHOP ON DENSITY FUNCTIONAL THEORY (DFT)

Dr. Abdullah Shukri from the Department of Physics, Faculty of Science, delivered a scientific workshop attended by more than 30 students from the Physics and Chemistry programs. The workshop focused on the fundamental concepts and practical applications of Density Functional Theory (DFT) in modeling and understanding materials at the atomic scale.



The workshop was divided into two main parts. The first introduced the theoretical foundations of DFT, including basic quantum mechanics concepts, common approximations, and a comparison between Hartree, Hartree-Fock, and Kohn-Sham approaches. The second part highlighted key applications of DFT in materials science, such as the study of mechanical and elastic properties, phase transitions under pressure, electronic structure of materials including aluminum and graphene, defect formation energies, and ion-solid interactions.



INVESTMENT IN COPPER ORES AND RARE EARTH ELEMENTS IN JORDAN

Under the patronage of H.E. Dr. Saleh Al-Kharabsheh, Minister of Energy and Mineral Resources, the Mining, Geological and Petroleum Engineering Division, in cooperation with the Chemical Engineering Division, organized a workshop titled “Investment in Copper Ores and Rare Earth Elements in Jordan,” held at the Engineers’ Complex on August 4, 2025.

As part of the workshop, Prof. Habes Ghrefat from the Department of Earth and Environmental Sciences delivered a scientific lecture highlighting the importance of remote sensing and spectral reflectance techniques in studying copper ores, with a focus on the Feynan area in southern Jordan. The work is part of a joint research project supported by the Deanship of Scientific Research and Graduate Studies at Yarmouk University, involving Prof. Ghrefat , Prof. Muheeb Awawdeh, and Prof. Dr. Khaled Al-Tarawneh from Al-Hussein Bin Talal University.



INTENSIVE HPLC WORKSHOP AT THE COLLEGE OF SCIENCE

On December 18, 2025, the Faculty of Science organized a free intensive workshop on High-Performance Liquid Chromatography (HPLC) to enhance students' practical skills and familiarize them with advanced scientific techniques. The workshop, conducted by ACAC trainer Mr. Amer Sweidan, covered HPLC principles, components, applications in pharmaceuticals, food, and environmental analysis, and included hands-on training.

Participants highlighted the workshop's value in strengthening their practical skills and preparing them for research and the job market, while the college expressed appreciation for ACAC's contribution and commitment to bridging theory and practice in education.



FACULTY OF SCIENCE HOSTS A WORKSHOP ON CREATIVITY TRAINING STRATEGIES

At the invitation of the Faculty of Science, Dr. Samer Ayasrah, Director of the Center for Creativity, Innovation, and Entrepreneurship at Amman Arab University, delivered a workshop titled “Strategies and Techniques for Creativity Training.” The workshop was attended by the Vice Dean of the Faculty, Dr. Abdulla Al-Rawabdeh, and organized by Prof. Khaled Al-Zoubi, Dr. Hiyam Al-Jarrah, and Dr. Basem Khamaiseh.

The interactive workshop presented practical strategies for creative thinking and idea generation, with hands-on activities and discussions aimed at applying creativity in education, research, and student projects. The event witnessed strong participation from students and faculty members, who praised its practical approach and immediate applicability.



IMPORTANCE OF MINERAL RESOURCES ON YARMOUK FM

Yarmouk FM radio series “ Story of the Earth” hosted by the students Mohammad Al-Kulaib and Mohammad Al-Amarat conducted a series of interviews with faculty members and students from the Department of Earth and Environmental Sciences, as well as representatives of the local community, to discuss a range of issues related to Earth sciences and the labor market.

The guest of the first episode was Dr. Mohammad Al-Qudah, Head of the Department of Earth and Environmental Sciences, who provided a detailed explanation of the formation of the Earth and discussed the importance of the Earth Sciences major and the career opportunities available to its graduates.

The guest of the second episode was student Rama Al-Khatib, who offered advice to new students and shared students’ aspirations and future ambitions. During the same episode, student Mohammad Al-Kulaib presented an overview of the water situation in Jordan and methods for conserving water resources.

In the third episode, the program hosted Engineer Hamza Al-Azzam from the Greater Irbid Municipality, who explained employment opportunities within municipalities. The fourth episode featured Dr. Talal Al-Momani, who discussed the economic importance of rocks and minerals, highlighted the presence of mineral resources in Jordan, and explained methods of their extraction.

The first part of the series concluded with an interview with Dr. Abdullah Al-Rawabdeh, Vice Dean of the Faculty of Science, who spoke about modern technologies in geology and offered advice to students and graduates, emphasizing the development of skills and personal growth to enable them to become active and effective members of society.



Student Participation

09



PARTICIPATION OF EARTH AND ENVIRONMENTAL SCIENCES STUDENTS IN MEOS GEO 2025 CONFERENCE IN BAHRAIN

Students Isra Zuhair Hasan Okour and Zaynab Muntaser Mustafa from the Department of Earth and Environmental Sciences participated in the Middle East Oil, Gas and Geosciences Conference and Exhibition (MEOS GEO 2025), held in the Kingdom of Bahrain, representing Yarmouk University at this prominent international scientific event.



Israa Akkour achieved a notable accomplishment by winning the MEOS GEO 2025 Challenge for her innovative presentation on Energy Security, proposing the use of nuclear-powered hydrogen as a sustainable energy solution, earning the award for Best Presentation at the conference. The participation was welcomed by the Dean of the Faculty of Science, Prof. Muheeb Awawdeh, who emphasized the importance of student involvement in international scientific events. The students also expressed their appreciation for the academic support provided by Dr. Abdulla Al-Rawabdah and Dr. Mohammad Al-Qudah, whose guidance contributed to their successful participation.



**UNIVERSITY HONORS EARTH AND ENVIRONMENTAL SCIENCES STUDENTS
FOR THEIR OUTSTANDING PARTICIPATION IN MEOS GEO 2025**



SCIENCE FACULTY STUDENTS PARTICIPATION IN NASA SPACE APPS CHALLENGE 2025

Yarmouk University hosted the second edition of the NASA Space Apps Challenge 2025, a global innovation competition organized in cooperation with NASA, aiming to encourage creativity and problem-solving in technology and space sciences through addressing real-world challenges.

The event brought together students from several Jordanian universities and concluded with honoring the winning teams and organizers.

Among the distinguished results, the team “NebulaNode” consist of three students from the Department of Physics, Faculty of Science, Yarmouk University achieved third place at the Irbid level.

This achievement reflects the active participation and innovative spirit of Faculty of Science students and highlights their ability to compete in international scientific and technological events.



Farah Al-Zoubi



Louzan Al-Ramahi



Batoul Bani Amer



STUDENT-LED INITIATIVE “ATHAR”

Under the patronage of the Dean of the Faculty of Science Prof. Muheeb Awawdeh, and coordinated by Prof. Molham Eyadeh, Assistant Dean of Students Affairs, and Dr. Mohammad Al-Qudah, Head of the Department of Earth and Environmental Sciences, in cooperation with Dr. Mohammad Salem from the Department of Fine Arts, students of the Department of Earth and Environmental Sciences launched Student-led initiative "Athar".

Through this initiative, students worked on revitalizing the department’s frontage by repainting walls, replacing old boards with new ones,

upgrading lighting, and adding plant cover to enhance the department’s aesthetic appeal. The carpet of the female prayer room was also renovated. During the initiative’s launch ceremony, Prof. Awawdeh expressed his sincere appreciation and gratitude to the students for their strong sense of belonging to the University, reflected through their active participation in extracurricular activities.



GREEN IMPACT MAKERS - THE ENVIRONMENT AND DEVELOPMENT COURSE

Under the patronage of Dr. Tareq Mousa Al-Shboul, Head of the Basic Sciences Department, and in the presence of Dr. Mohammad Al-Qudah, Head of the Department of Earth and Environmental Sciences, and under the supervision of the course instructor Ms. Safaa Khashashneh, students of the Environment and Development course (SCI110) implemented an environmental initiative on Tuesday, December 3, 2025, titled “Green Impact Makers – An Initiative to Raise Awareness of Environmental Sustainability on Campus.”



This initiative comes within the pioneering role of the Basic Sciences Department at the Faculty of Science in promoting scientific and environmental awareness among university students. The department aims to encourage students to translate environmental knowledge into practical actions that serve the university environment and support sustainability principles.

The initiative also involved a voluntary clean-up campaign of the faculty's outdoor facilities, reinforcing values of belonging and environmental responsibility, and emphasizing the importance of maintaining a clean university campus.

Dr. Al-Shboul praised the efforts of the course students and the department's role in supporting such initiatives, highlighting the growing environmental awareness among students. Dr. Al-Qudah also commended the importance of student initiatives in spreading a culture of sustainability within the university.

For her part, Ms. Safaa Khashashneh expressed her pride in the students' active participation and her aspiration to further expand such awareness initiatives due to their significant impact on promoting sustainability within the university and the local community.

UPCOMING EVENTS 2026

15-16
FEB

Second Winter
School of Physics: Space
Measurements

10
MAR

The Role of
Mathematics in Global
Companies and Industries

24
MAR

Using Statistics and
Samples in Agricultural
Research

31
MAR

Seminar on
Detergent Manufacturing

02
APR

The 14th Scientific
Workshop for SESAME
Synchrotron Users

20-22
APR

The 17th Regional
Imperial Barrel Award (IBA)
Competition

12
MAY

Lecture: Exclusive
Vector Meson Production
in Electron-Ion Collisions

17
MAY

Faculty Scientific Day

24
MAY

Introduction to
Occupational Safety
According to OSHA

03
JUN

World Environment
Day

13
JUL

Workshop: Principles
of AI for Beginners

20
JUL

Public Safety Seminar

11
AUG

Lecture on Voluntary
Work for Youth

18
AUG

Seminar on
Pharmaceutical
Manufacturing



WITH OUR BEST WISHES FOR A SUCCESSFUL ACADEMIC YEAR

**THE FACULTY OF SCIENCE AT YARMOUK UNIVERSITY REMAINS
COMMITTED TO ACADEMIC EXCELLENCE, SCIENTIFIC
RESEARCH, AND COMMUNITY ENGAGEMENT.
WE LOOK FORWARD TO SHARING MORE ACHIEVEMENTS AND
INSPIRING STORIES IN OUR UPCOMING ISSUES.**

**FACULTY OF SCIENCE – YARMOUK UNIVERSITY
ACADEMIC YEAR: 2025–2026 | ISSUE NO. 1**



Yarmouk University



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027211111 (2411 / 2412)