



**Yarmouk University**

Hijjawi Faculty for Engineering Technology

# Hijjawi Faculty Newsletter

Issue 05 | December 31<sup>st</sup> 2022



*Established in **1984***



***9 Engineering Departments**  
(**10 B.S.E.T / 5 M.S.**)*



*More than **26,000**  
Engineering Graduates*



***125**  
Academic Staff*



***73 Admin Staff & Lab  
Engineer***

# Yarmouk University

## Hijjawi Faculty for Engineering Technology

### Our Vision

Towards a distinct faculty in teaching and research exists among 500 best faculties in the world in the various fields of engineering by the year of 2025.

### Our Mission

Excellence in teaching, scientific research and community service through the provision of high-quality education in line with the latest developments in various fields of science and engineering, and closely linked with industry as well as various community needs.

### Our Objectives

- Provide high-quality education in line with the latest developments in the various fields of science and engineering.
- Achieve partnership with industry to prepare qualified graduates to work efficiently in this sector.
- Establish research centers to get familiar with the community needs and work to find effective solutions to these needs.
- The presence as a strong competitor in the field of scientific research in the world, through the quantity and quality of scientific publications issued by the faculty.

### Our Values

The faculty seeks to prepare the graduate to be a good person who is productive in his community and loyal to his country and nation. Therefore, the faculty focuses on developing the student's personality and inclinations, encouraging him to be creative, and developing his moral aspect, which contribute to the preparation of the elites and the leaders of the future.

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# President's Message

**Prof. Islam M. Massad, MD**



I am always delighted to write the welcome message for the Hijjawi Faculty for Engineering Technology newsletter.

Reading through this newsletter I can see the huge amount of work done by the Faculty administration, as well as the excellence of its Faculty members and students. I'm really delighted to see these activities that focus on our students, who are the future of our beloved country.

I am closely following the performance of this Faculty. I'm very astonished by its achievements, starting from the excellent performance in acquiring the ABET accreditation for its undergraduate programs, to its focus on students' activities, including the bimonthly meeting of the Dean with his students to listen to their ideas and discuss them -- this is how we build the character of our student, by dialogue, and this is aligned of our attempts to implement the bylaws to regulate the practice of student partisan activities at higher

education institutions, which were approved by the Cabinet on Nov. 2022.

Many initiative by the Faculty have been launched -- they are unique and compelling, indeed. I very much like the idea of having a regular meeting for the former Deans of the Faculty, something that reflects the institutionalized way of leadership. This is also complementary to the Faculty's attempts to learn from relevant stakeholders by forming an external advisory board.

The Faculty is continuously updating its programs, as well as its curriculum. This is very significant to reflect the changes in the job market and enhance our graduate competitive value to find a relevant job.

When I visit the Faculty, I can see it clearly how agile the administration is, trying to utilize the available resources for increasing the productivity and reducing the cost. I should admire here the Faculty's imitative to launch annual awards for best teaching, research, employee, master's thesis, etc.

My administration will continue its support to the initiatives and projects issued by the Faculty, because we are certain about the outcomes.

I congratulate you on these achievements, and wish that the 2023 year will be full of goodness, love and peace. May God Almighty bless His Majesty King Abdullah II Ibn Al-Hussein, his trustworthy Crown Prince Al-Hussein Bin Abdullah II, the honorable Hashemite family, and the Jordanian people inside and outside our beloved kingdom. May our homeland be blessed with generosity, prosperity, security, and safety, and may our Jordan remain dear, proud, and disobedient to every greedy person.



# Dean's Message



I'm delighted to welcome you to the fifth and final issue of the Hijawi Faculty for Engineering Technology Newsletter in 2022, in which we attempt to portray the Faculty through the eyes of its students, faculty members, and management personnel. Here in this welcome message, I try to present what we have achieved in the last quarter of this year 2022, and I briefly touch my action plan for the next year 2023.

What a great kick off of this academic year 2022 / 2023! The Faculty was able to conduct more than sixty activities with the help of its Faculty members and students. In addition to the activities, our faculty members and students demonstrated their excellence through their great achievements during this short period -- something that will certainly continue exponentially in the future, with the full

support we receive from the top management in the university.

My administration continued its great efforts to get the ABET accreditations for all ten bachelor programs. We started this academic year with a great news that our first three programs (Computer Engineering, Electronics Engineering, and Industrial Engineering), which we submitted in 2020, received the full accreditation until Oct. 2028. At the same time, we were visited by an ABET evaluation team for another set of three programs (Biomedical Systems Engineering, Biomedical Informatics Engineering, and Communication Engineering), which we submitted in 2021. The outcomes of the visit were just awesome. This academic year 2022 we submitted the seventh program, which is the Electrical Power Engineering. In my plan for the next year 2023, we will apply for the rest of the programs.

We also continued our focus on international collaboration. For instance, one new project for the Faculty, which is the RL4Eng project, received funding from the European Erasmus Plus program in the field of capacity building, with a total budget of 800 thousand euros for all partners. Only two projects were accepted in Jordan during this cycle. This project aims to develop the process of teaching engineering laboratories remotely -- something that is aligned with the digital transformation strategy of the university, specifically, and of Jordan, at large. More applications for funding have been submitted in the past period, hoping to receive positive feedback.

We have also formed an industrial advisory board from our stakeholders. The seventeen members in the board covers the Engineering business spectrum. We are looking forward to the first meeting for the board. At the same time, we held the second meeting for the former Deans of the Faculty. This is also a unique initiative, where we learn best practices and we share ideas with our former Deans for feedback.

We fully recognize the significance of being close to our students, as we believe in student centric education. For the first time, we launched an initiative to regularly meet students and discuss with them any topic -- the initiative is called "Tuesday Meeting with the Dean". I understand that unusual things take time to become usual. However, I see how much enthusiastic our students are to discuss and share ideas.

I believe in appreciation and recognition of efforts, thus, for the first time in its history, the Faculty has put regulations and criteria for awards, announced them, and just recently before the end of this year we selected the winners based on the criteria. Early next year we will have a ceremony to appreciate those who have won, in public.

We haven't stopped here; we established a unit for student career counselling and development. This unit will be attached to the Dean Assistant for Student Affairs. The unit will institutionalize our efforts to develop the labor work skills for our students -- something that may end up changing the curriculum, accordingly.

We have also established a unit to outreach to our alumni. We believe our alumni are a good resource for us to use and access for help in terms of securing apprenticeships for our students or jobs for our graduates. We have noticed that by contacting our distinguished alumni to include their bios in our newsletter how much they are excited to be

connected back to their alma school.

We have plans to update our curriculum, to include up-to-date technologies and state-of-the-art knowledge -- to make it more appealing to the labor market needs. We also plan to restructure our study plans to include dual studies, tracks of technical skills, etc.

We have proposed new programs in the Faculty, namely, Bachelor in Computer Engineering/Internet of Things and Masters in Biomedical Systems and Informatics Engineering. We have also recently proposed to establish a master's program in Robotics and Automation.

My team are working on launching the first scientific conference in the summer of 2023. We have also started to study the feasibility to establish the first journal in the Faculty. The journal will be in the applications of Artificial Intelligence in Engineering.

My team also is working on getting the national quality assurance certificate, at the Faculty level. We hope to submit the Self Assessment Report soon, taking advantage of our experience in ABET accreditation in the past two years.

My action plan for the academic year 2022 / 2023 has been approved by the Faculty's Council. We will regularly monitor its KPIs to make sure that we are achieving our strategic objectives.

I hope you a pleasant experience as you read this issue of the Faculty newsletter. I'm sure that you will notice the energy of our students, something that makes us more confident about our future.

I would also like to wish you many blessings to come in the year 2023!

**Prof. Mwaffaq Otoom, PhD**  
**Dean**

# Alumni

## ■ Dr. Sura Khaled Al-Qudah



**Dr. Sura Khaled Al-Qudah (class of 2004)**, received her B.S. degree in Electronics Engineering from Hijjawi Faculty for Engineering Technology at Yarmouk University, Jordan, in 2004, and the M.S. and Ph.D. degrees in Industrial and Systems Engineering from Binghamton University (B.U.), Binghamton, NY, USA, in 2010 and 2014, respectively. Dr. Al-Qudah is currently an Associate Professor in the Engineering & Design Department at Western Washington University (WWU) in Bellingham, WA, USA, and the Director of the Manufacturing Engineering Program in that Department..

Dr. Al-Qudah has diverse knowledge and experience in engineering, started with her role as an Engineering Assistant at the Biomedical Center of Excellence in the Hijjawi Faculty after graduation. In that role, she prepared the biomedical lab equipment and reviewed specs. sheets and purchase orders for equipment and tools (hardware/software). During her graduate education at B.U., Dr. Al-Qudah was part of the Watson Institute for Systems Excellence (WISE; a \$50M+ funded research group), where she worked on diverse research topics such as social network analysis for undergraduate engineering students,

sensor array design & testing, Lean Six Sigma for healthcare, and applied process improvement initiatives. During this experience, Dr. Al-Qudah gained tremendous experience with teaching, research, and collaboration, which helped her become an outstanding academician and progress from 'breadth to depth to perspective' throughout her education.

Dr. Al-Qudah joined the faculty at WWU in the Fall 2014 as an Assistant Professor. Since then, she has become widely recognized by her peers as a leader in the department for developing and maintaining learning environments, both in the classrooms and labs, that are equitable and inclusive of students with diverse social identities and backgrounds. In addition to her strong course evaluation scores, her students highly value her research and scholarship activities. Some of Dr. Al-Qudah's recent research involves a \$1M NSF grant to support low-income, highly capable students pursuing engineering, a filed U.S. patent proposing an innovated design to improve a medical instrument, multiple educational hands-on lean activities to enhance student learning, and several publications on engineering education matters.

Dr. Alqudah is a recipient of several awards, such as the Excellence in Teaching Award by the National Society of Leadership and Success (NSLS) Sigma Alpha Pi, the academic award for Achievements in Teaching and Learning at WWU and Beyond, and Alpha Pi Mu Honor Society. Dr. Al-Qudah is a member of the Institute of Industrial and System Engineers (IISE), the American Society for Quality (ASQ), the Society of Women Engineers (SWE), and the American Society of Engineering Education (ASEE). Dr. Al-Qudah's research areas are in applied ergonomics & human factors, engineering education pedagogies, and process improvements. Dr. Al-Qudah holds a Lean Six Sigma Black Belt certificate, among others.

## ■ Dr. Mohamed El-Sharo'



**Dr. Mohamed El-Sharo' (class of 2002)**, received his B.S. degree in computer engineering from Hijjawi Faculty for Engineering Technology at Yarmouk University, Jordan, in 2002, and his M.S. and Ph.D. degrees in Industrial and Systems Engineering from the State University of New York at Binghamton University, NY, USA, in 2009 and 2012, respectively. Dr. El-Sharo' is currently a full-time Lean consultant at PeaceHealth and a Visiting Assistant Professor at Western Washington University (WWU) in Bellingham, WA, USA.

Dr. El-Sharo' has started his career right after graduation from Hijjawi Faculty at Yarmouk University as a lab teaching assistant in the Department of Computer Engineering. Later he joined the Jordan Petroleum Refinery Co. from 2002-2004 as a computer engineer helping manage the computer network and administer the computer servers at the IT Division. Jordan Petroleum Refinery Co. was going through an implementation of an enterprise resource planning (ERP) system to manage their production operations and Dr. El-Sharo' was a member of the implementation team of the ERP solution. From 2004--2007, Dr. El-Sharo' joined Jordan University of Science and Technology as a lab manager and assisted in teaching many computer engineering labs.

During his graduate studies, Dr. El-Sharo' joined Watson Institute for Systems Excellence (WISE, a \$50M+ funded research group) and worked for multiple organizations in manufacturing and health care. He gained experience at

United Health Services working on many performance improvement projects and supporting their Quality Department from 2008-2012. Dr. El-Sharo' joined Mayo Clinic in Rochester, MN, USA right after completing his Ph.D. and worked there from 2012--2015 as a Health Systems Engineer. In his role at Mayo Clinic, he proved his excellence in supporting their Systems & Procedures Department. He worked on process improvement and reengineering projects to improve patient safety, care quality, healthcare value, and enhance research clinical trials' key performance indicators. He also supported the surgical services at Mayo Clinic to reduce duplicate and redundant process steps resulting in savings of multiple millions of dollars.

In 2015, Dr. El-Sharo' joined Western Washington University as a Visiting Assistant Professor teaching operations management and project management at the Decision Sciences Department and in the MBA Program. In 2016 he joined PeaceHealth as a Continuous Improvement Consultant, (PeaceHealth is a 16,000-employee healthcare system with five major hospitals in Washington, Oregon, and Alaska). Dr. El-Sharo' has been supporting the outpatient clinics' operations at PeaceHealth through the COVID pandemic with all the changes in the healthcare world. Through this journey, Dr. El-Sharo' helped design and operate a fast-paced, mass vaccine clinic in Bellingham, WA that provided vaccines to more than 1,000 patients a day and provided more than 70,000 vaccines to patients in one single location.

Dr. El-Sharo' is a recipient of the Mission and Value Award from PeaceHealth for his contribution of supporting the local community and the Mission of PeaceHealth of patient-centered care. Dr. El-Sharo' is a member of the Institute of Industrial and System Engineers (IISE) and presented his work in healthcare and other manufacturing organization in multiple conference papers and presentations at the annual Industrial and Systems Engineering Conference and Expo. Dr. El-Sharo is a Lean instructor, and he received many professional certificates in Lean and Six Sigma from various organizations.



## ■ Eng. Hamid Alqwaysim



**Eng. Hamid Alqwaysim (class of 2018),** Co-Founder/CEO of Mobeasy LLC , Co-Founder/CEO of The H2 Academy.

Hamid received his BS in Civil Engineering/ Construction Management in 2018. He is currently the Co-Founder / CEO of Mobeasy , which is the first arabic mobile platform to create mobile applications without coding. He is also the Founder/CEO of The H2 Academy, which is now the biggest arabic academy in the middle east for courses and trainings about online business and marketing fields. Hamid was a project manager at Hult Prize in Jordan (2018) and got a 35-day training with Hult Prize in London (Ashridge Castle) in business development. Hamid got certified in marketing by google in 2015 and got

the GMF certificate from google. Hamid started his first startup in 2015, which is (Tasheh LTD) -- it was the first Jordanian mobile app to provide discounts as packages in the malls to save people money for shopping bundles as a free service. In 2016, Hamid got enough data from his first company ( Tasheh LTD ) that allows him to start his own marketing company named (TAMS LTD), which used to handle big brand marketing campaigns in Jordan. In 2017, Hamid started his marketing consultation agency, stopped his marketing company, and started giving training for companies for marketing instead of handling their marketing campaigns. In 2018, Hamid got funding from (shmal start) for his first company (Tasheh LTD), which helped him to accelerate his journey and turn the startup to an established company. In 2019, Hamid started his social media journey recording and publishing videos talking about his own experience in facebook and youtube, In 2020, Hamid was selected as one of the 30 influencers as entrepreneurs in Jordan by unicorn US. In 2021, Hamid represented his startup (Mobeasy) in seamless at Dubai. In 2022, Hamid represented his startup (Mobeasy) in StepSaudi at Riyadh. Hamid was trying the best to learn new skills since his first year in the faculty , in-fact he got the chance to get the funding for his project (tasheh) from an event in Hijjawi Faculty, also he met his IT-partner in Mobeasy LLC from the Faculty, who is ( Mahmoud Abualhija). Hijjawi faculty was part of Hamid's achievements so far, as he mentioned, and all the opportunities started from the Hijjawi faculty.

# Faculty News

## Hijawi Faculty for Engineering Technology obtains ABET accreditation for three of its programs



Engineering  
Accreditation  
Commission

Hijawi Faculty for Engineering Technology at Yarmouk University has obtained ABET Accreditation for three of its undergraduate programs, namely Computer Engineering, Electronics Engineering, and Industrial Engineering. ABET is one of the most reliable international accreditations in the fields of applied science, computer, engineering and technology, and is most common in universities in the United States of America and others around the world. To date, more than 4,000 programs at 850 colleges and universities in 41 countries around the world have obtained ABET accreditation. More than 175,000 students graduate from ABET-accredited programs each year, and millions of graduates have earned degrees from ABET-accredited programs since 1932.

The college began preparing for ABET accreditation application procedures at the beginning of the first semester 2020--2021, and officially submitted the application in January 2021. The concerned departments then worked directly on preparing the self-study report and handing it in, in preparation for the visit of the international evaluation team during the first half of November 2021, which lasted for four days. After the visit, the chair of the international evaluation team, during his meeting with the president of the university at the exit meeting of the visit, praised the great efforts made and the high response of the work team from the college consisting of the dean of the college (Dr. Mwaffaq Otoom) and heads of the

departments of computer engineering (Dr. Mohammad Alzubaidi), electronics engineering (Dr. Zaid Albataineh) and industrial engineering (Dr. Dania Bani Hani). The team chair also confirmed to the university President that the work team is characterized by accuracy and professionalism that exceeded the universities he visited, including American universities.

On August 30, 2022, the university obtained the final report announcing that the Departments of Computer Engineering, Electronics Engineering, and Industrial Engineering have obtained ABET accreditation for its undergraduate programs, which were evaluated by the Engineering Accreditation Commission (EAC) of ABET, without any Observation, Concern, Weakness, or Deficiency, which are the four levels used in ABET to document shortcomings in the evaluated programs. The final report also announced the granting of accreditation to these three programs for a period of eight years (which is the maximum period that can be obtained) starting from October 2020, so that any student who obtained a bachelor's degree from any of these three programs during this accredited period can benefit from accreditation. This score (as described by the team chair) is the best score awarded by ABET accreditation for the programs it evaluates. The report praised Yarmouk University's interest in scholarships and considered it the main strength of the university. At the level of the three academic programs, the strengths mentioned in the report are summarized in three main things: (1) focus on field training as a compulsory requirement in those programs (2) the practical experience possessed by many faculty members (3) the college's interest in the subject of innovation, Entrepreneurship, and professional and career development for students.





ENGINEERING ACCREDITATION COMMISSION

### Summary of Accreditation Actions 2021–2022 Accreditation Cycle

Yarmouk University  
Irbid, Jordan

**Computer Engineering (Bachelor of Science in Engineering Technology)**  
**Electronics Engineering (Bachelor of Science in Engineering Technology)**  
**Industrial Engineering (Bachelor of Science in Engineering Technology)**

Accredit to September 30, 2028. A request to ABET by January 31, 2027 will be required to initiate a reaccreditation evaluation visit. In preparation for the visit, a Self-Study Report must be submitted to ABET by July 1, 2027. The reaccreditation evaluation will be a comprehensive general review.

These are newly accredited programs. Please note that this accreditation action extends retroactively from October 1, 2020.

President of the University, Prof. Dr. Islam Massad, praised the efforts of the Hijjawi Faculty for Engineering Technology, its administration, the work team and the specialized committees for the sincere efforts they made to reach this achievement. He also stressed the importance of continuing efforts in various faculties to obtain prestigious international accreditations to reflect the distinguished level and good reputation of Yarmouk University locally, regionally and globally.

In turn, the Dean of Hijjawi Faculty of Engineering Technology, Prof. Dr. Mwaffaq Otoom, praised the efforts of all the faculty and administrative staff in the college who worked on this achievement. He confirmed that work is underway to obtain ABET accreditation for the rest of the college's programs.



## Hijjawi Faculty for Engineering Technology Celebrates the ABET Accreditation for its First Three BS Programs



The President of Yarmouk University, Dr. Islam Massad, patronaged the celebration of Hijjawi College for Engineering Technology, on the occasion of its obtaining the American Accreditation for Engineering and Technology (ABET) in three of its undergraduate programs, which are computer engineering, electronics engineering, and industrial engineering.

Massad expressed his happiness at celebrating this great academic achievement in conjunction with the start of the academic year, to be a year in which we build on the achievements, excellence and development of our various faculties and scientific and research centers.

He added that obtaining this accreditation represents a success story in which the

determination of the staff and students at Hijjawi Faculty for Engineering Technology united, and this was an important, qualitative and distinguished achievement globally, especially since ABET accreditation is one of the most reliable international accreditations in the fields of applied science, computer, engineering and technology, and is most common in state universities in the United States of America and others around the world, and this is a highly important and reliable indicator for the ambitious and distinguished Faculty of Engineering in its management and staff.

Massad pointed out that Yarmouk University, thanks to the determination of its students and their relentless determination, has become the pinnacle of excellence in many of its faculties, programs and specializations. The university is continuing in its developmental, enlightening and academic role, its goal is the elevation of the nation, and its pillar is science, knowledge and belonging, and its approach is caring for man and his issues, through the relentless pursuit of a practical renaissance a distinguished academy, accompanied by sustainability in scientific research and strategic studies, and stimulation of mutual cooperation with various institutions globally, regionally and in the Arab world.

Massad appreciated the efforts of the Faculty administration, its staff, the work team and the specialized committees for their sincere efforts to reach this achievement, and for everyone who contributed to achieving this achievement that we are proud of.

In the same context, the Dean of the Hijjawi Faculty for Engineering Technology, Dr. Mwaffaq Otoom, said that the journey to obtaining the American accreditation included many stages, including the development of a clear mechanism and effective tools to ensure the process of continuous improvement of teaching performance in the college, as the college has developed and programmed several tools to ensure continuous improvement.

He added that the Faculty has also programmed the course file, the quarterly review report software, and the course outline databases. Intensive training workshops were given to each of them inside and outside the college, indicating that electronic academic advising was also developed and applied, as the electronic academic advising process was activated and its mandatory approval in all academic departments in the college.







## Hijjawi Faculty for Engineering Technology applies for four more BS programs for the ABET accreditation

In January 2022, the Faculty applied for ABET accreditation for three other undergraduate programs, which are Communications Engineering, Biomedical Systems Engineering, and Biomedical Informatics Engineering. The college has also prepared and delivered a self-study report for each of these programs, and has made the necessary preparations for the visit of the international evaluation team for these programs, which was held during the first half of November of the year 2022. The visit was very successful without any comments or shortcomings on any of the three programs.

Recently, the Faculty applied for ABET accreditation for one more undergraduate program, which is Electrical Power Engineering. The college has updated the study plans for the remaining programs to comply with ABET Accreditation requirements for the college to be able to apply for these programs in the coming years.

## Hijjawi Faculty for Engineering Technology Administration Staff Honors the Dean for his First Term Service

Hijjawi Faculty for Engineering Technology Administration Staff honors the Dean for his first term service, which has started in August 2020 for two years.



## Hijjawi Faculty Organizes an Italian Manufacturing Day with FIAT

Hijjawi Faculty for Engineering Technology, in cooperation with the Italian Embassy in Amman, organized a workshop entitled "Industrial Innovation and Nation-Building from the Perspective of Italian Society", in the presence of the President of Yarmouk University, Dr. Islam Massad, and the Italian Ambassador to Amman, Luciano Pizzotti.

Massad delivered a speech in which he welcomed the Italian ambassador and the participants in the workshop, which was organized on the occasion of the centenary of the birth of Giovanni Agnelli, President of the Fiat Automotive Company. He pointed out the importance of holding such events at the university because it constitutes an important opportunity for exchanging experiences between faculty members, experts and academics in various fields on the one hand, and an opportunity for students to learn about the reality of the labor market and developments and changes in the labor market in light of the information and industrial revolutions, and to learn about ideas and recent developments in their field of specialization, pointing to the university's keenness to cooperate with various educational and research institutions at the regional and international levels to benefit as much as possible from the available expertise and contribute to the development of the teaching process.

For his part, Ambassador Pizzotti spoke about the development and industrial revolution in Italy and the factors that contributed to achieving this development until the Italian economy became one of the strong economies in the world, stressing the importance of maximizing efforts to develop cultural life and educational and research institutions, especially with the changes the world is witnessing. It contributes to changing our attitudes and thoughts, as it is the person who decides the important and good issues and topics in life.

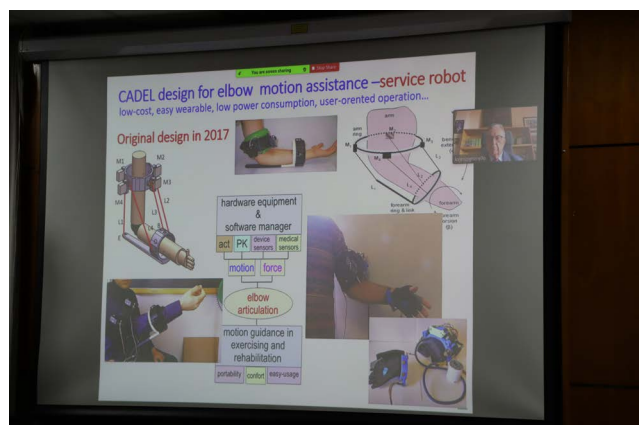
He expressed his happiness and pride for his presence at Yarmouk University and this cooperation, which is one of the means of communication with Jordanian universities in a way that strengthens the ties of cultural and scientific cooperation and embodies the good relationship that binds the two countries, pointing out the importance of the topic of the workshop, which discusses an important topic in the era of innovation, leadership, and the industrial and information revolution.





Within the activities of the workshop, Eng. Lorenzo Morello, former director of FIAT, spoke via remote visual communication technology about the company's origins and the developments it has witnessed over the past 100 years in the field of manufacturing economical cars. Dr. Marco Ciccarelli, Professor of Mechanical Engineering at the Italian University of Rome Tor Vergata, spoke about robot design in Italy: history, challenges and achievements. An extensive dialogue took place at the end of the workshop, during which the two speakers answered the students' questions and inquiries.

During their visit to the university, the workshop participants toured the Hijjawi Faculty for Engineering Technology, and looked at the laboratories of the various academic departments.



## Hijjawi Faculty for Engineering Technology Holds a Meeting for the Former Deans

The President of Yarmouk University, Dr. Islam Massad, met with a number of former deans of the Hijjawi College of Technology Engineering, on the sidelines of the second meeting organized by the college for its former deans, with the aim of communicating with them and informing them of the development process and the accumulated achievements achieved by the college in various scientific and academic fields.

The meeting was attended by former deans of Al-Ain, Dr. Labib Al-Khadra, Vice President for Academic Affairs Dr. Mowaffaq Al-Amoush, Dr. Omar Al-Asfar, Dr. Wajih Qasim, Dr. Bassam Harb, Dr. Ahmed Al-Shamali, and Dr. Adnan Al-Smadi.

During the meeting, he welcomed the former deans of the college, expressing the appreciation of Yarmouk University for the efforts they made to serve the college and their keenness to develop it, and to harness their experiences and knowledge in order to upgrade the college and formulate a story of its distinction through successive years of research and academic work, so that Hijjawi College has become today one of the distinguished academic colleges At the local and regional level, it was also able to obtain American accreditation for a number of its academic programs, which reflects the excellence of these programs and their keeping pace with global requirements in the field of prestigious international engineering education.

He stressed the importance of holding such periodic meetings that enhance the institutional work in the colleges and motivate the faculty members to cooperate in order to achieve the goals of the colleges and provide high-quality education keeping pace with the latest developments in various fields of science, especially engineering related to the industrial sector, to meet the diverse needs of society.





For his part, the Dean of the Hijjawi College of Technological Engineering, Dr. Mowaffaq Al-Atoum, confirmed that this meeting comes from the keenness of the college administration to benefit from the experiences of the former deans of the college in decision-making, achieve the vision and mission of the college, and discuss their proposals to direct the college in a way that enhances its position and development, and contributes to achieving its mission to prepare graduates. Qualified to work in various engineering sectors with high efficiency, and support the college's endeavors in establishing research centers concerned with studying the needs of society and working to find successful solutions for them through solid scientific research.

On the sidelines of the meeting, the former deans toured the various buildings, facilities, and laboratories of the college, during which they listened to an explanation from faculty members, laboratory engineers, and students, on the engineering devices and equipment contained in these laboratories, and the academic importance they achieve that is reflected in the training and practical practice of students.



## Hijjawi Conducts Orientation Meeting for Newly Enrolled Students

The Dean of Hijjawi Faculty for Engineering Technology, Prof. Mwaffaq Otoom, patronaged an orientation meeting for the newly enrolled students of the academic year 2022--2023. The meeting began with a speech by Professor Otoom, in which he congratulated the newly enrolled students for joining Hijjawi Faculty and expressed his pride in them for joining the family of Yarmouk University. Moreover, Professor Otoom called on the new students to keep in touch with their academic departments to seek guidance and to benefit from all the activities offered by the faculty. At the end of his speech, Professor Otoom thanked the academic and administrative staff of the faculty for their efforts in the past year.

The program of the meeting included an introduction to the faculty facilities, academic departments, and online/electronic services. The chairpersons of the departments gave introductory presentations during which they answered questions submitted by students. The meeting included entertainment activities, competitions and welcome speeches from the current students to the newly enrolled students.





## The Industrial Engineering Department Holds a Welcoming Session for the Freshman Industrial Engineering Students

The Industrial Engineering Department with the help of the Industrial Team students group held a welcoming session for the freshman Industrial Engineering students in the IE department on November 1st 2022. At the start of the session students were welcomed by the department head, Dr. Dania Bani Hani, and they were introduced into their major. Dr. Bani Hani provided a presentation about the industrial engineering major at which she discussed some definitions about industrial engineering, what differs industrial engineering from other majors, famous industrial engineers, career opportunities for industrial engineering and the different majors under which the industrial engineers could excel. Besides, Dr. Bani Hani delivered an overview about the Industrial Engineering department and talked about the experiences and skills of the faculty members which adds towards having a good teaching environment. Prof. Ammar Al Rousan and Dr. Bani Hani also provided an explanation about how the department of Industrial Engineering has been working on updating its curriculum to accommodate the global changes in the field and to equip the students with required global skills and market needs. Furthermore, they explained to the students about the ABET accreditation that has been recently granted to the department and the benefits to the overall teaching environment and to the students. Moreover, Prof. Al Rousan and Dr. Bani Hani encouraged the students to use the available resources at the department labs such the Manufacturing Materials and Processes Lab at which several machines and equipment are newly installed such as the 3D printers, laser cutting machines, plasma cutting machines among others. At the end a Q&A session was held and the students expressed their contentment and gratitude for the department for holding the welcoming session and a group photo was taken.



## Hijjawi Faculty and H-BRS/Germany Conduct a Workshop on Digital Literacy

Prof. Rainer Herpers from Bonn Rhein-Sieg University in Germany visited Hijjawi Faculty for Engineering Technology to deliver a workshop on digital literacy, and how STEM majors can contribute to improve the rates of digital literacy among citizens and other majors. The outcomes of this workshop was submitted as a proposal to the DAAD Ta'ziz program to develop digital competencies and upgrade university curriculum to include these competencies. Part of the proposal is to train people (students, faculty members, and citizens) on these skills.



## The Dean Meets with Luminous

Dean of the Faculty met in his office a delegation from Luminous Education to discuss possible collaboration in their upskilling program for Engineering students in the computer skills, such as AI and coding.





## The Dean Presents at the UK Royal Academy of Engineering Event

Dean of the Faculty presented his experience in the UK Royal Academy of Engineering funding schemes, as a frontiers champion. The objective of this event is to transfer the experience for engineers who are willing to become frontiers champions in the future.

**Royal Academy of Engineering**

### Frontiers Champions

Previous Frontiers programme participants are offered small grants of up to £10,000 for one year to undertake activities that expand on the Frontiers networks.

Awardees convene their peers through regional or thematic events, building communities of people with the right networks to tackle global challenges.

**Launched in 2019**

**13 champions in the first round**

Participants in the meeting include:

- Hyunjoo (RAEng)
- Mwaffaq Ootom
- Assoc. Prof. Dr Witaya Pittungnapoo
- Witiya Pittungnapoo
- Binasia (RAEng)
- Alice M (RAEng)
- Louise Firth
- Jack Farren
- Akino Tahir
- Tatirano Social Enterprise
- Dr. Osuolale Olayinka

Presenters on the slide include:

- Yung Wey Chong, Senior Lecturer, Universiti Sains Malaysia
- Dani Nguyen, Managing Partner, Utispa
- Ashwini Wilongga, Director and Investor at Congest Model Co., Tanzania

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## The Dean Receives a Delegation from Purdue University

Dean of the Faculty received in his office a delegation from Purdue University to discuss possible collaboration opportunities, including applying for joint funding. The meeting included a discussion about challenges of higher education in Jordan.



## The Dean Launches "Tuesday Meeting" Initiative to Regularly Meet with the Students

Dean of the Faculty launched the "Tuesday Meeting" Initiative to regularly meet with students to listen to their feedback and open discussion in various topics. This initiative was launched in response to the directions of the university's president, Prof. Massad, to open channels of communication with students.

It is also worth mentioning that Jordan has issued a law to regulate students' engagement in political parties during their study.



## The Dean Meets with the Admin. Staff

Dean of the Faculty met with the administrative staff to listen to their comments and discuss with them their needs, as well as their responsibilities.





## The Dean Participates in JEA Ceremony to Honor First in Class Engineering Students

Dean of the Faculty participated in the annual ceremony conducted by the Jordan Engineers Association to honor the first in class in the different Engineering bachelor programs in Jordan.



## The Dean Presents at the GIZ Core Conference

Dean of the Faculty presented a proposal at the GIZ Conference on Cooperative Higher Education (CORE Conference) in the Dead Sea last October. The proposal was prepared by the Dean, Dr. Ahmed Koran, the Vice Dean, and Dr. Ashraf Radaideh, Chair of the Electrical Power Engineering Department, on electro-mobility.

The proposal aims to develop a set of training and vocational education courses to pass over the necessary skill set needed for the installation and maintenance of electro-mobility charging stations based on photovoltaics.



# Students Activities

## Hijjawi Faculty Students Participate in Sofex Exhibition and Conference 2022

Hijjawi Faculty for Engineering Technology students participated with three projects in the SOFEX Military Exhibition 2022, which was kicked off in Aqaba under the patronage of His Majesty King Abdullah II Ibn Al-Hussein, with the participation of 38 countries and more than 300 companies specialized in the manufacture of defense equipment and weapons. Where the Jordanian Center for Design and Development chose three projects from the graduation projects of Hijjawi Faculty students to participate in the exhibition.

President Massad, during his attendance at the opening ceremony of the exhibition, emphasized Yarmouk's pride in this great achievement represented in the ability of the students of Hijjawi Faculty to link their projects with the needs of different knowledge economies, especially since this participation, which is the largest in terms of the number of participating projects at the university level and is the first participation of Yarmouk University in this exhibition, which is the largest international military exhibition in the world and the only one in the region specialized in the field of special operations and national security equipment.

He pointed out that the Hijjawi Faculty for Engineering Technology, since its inception, has given the applied aspect of its programs a top priority, which reflects positively and remarkably on the competitive value of its graduates, pointing out that the selection of the Jordanian Center for Design and Development for the three projects reflects the excellence of the teaching process, curricula and study plans for the programs of the Hijjawi Faculty, which focuses on the practical side and its compatibility with the needs of the community and the local economy, pointing out that the university, within its strategy and plan for the next stage, seeks to develop curricula and study plans to include practical and applied skills necessary for the local, regional and global labor market.





In turn, the Dean of the Hijjawi Faculty for Engineering Technology, Dr. Mwaffaq Otoom, explained the three stages of selecting projects began with the nomination of 13 projects from different departments in the faculty, and seven projects were selected for the official interview from the Research and Scientific Cooperation Department at the Jordanian Center for Design and Development, where the students gave a detailed explanation of their projects.

He mentioned that the first project of the two students, Eyas Abu Musa and Razan Mashaalji, supervised by Dr. Yusra Obeidat from the Department of Electronics Engineering, is a device that was developed to distinguish liquids by measuring their concentration under certain properties and conditions using light transmitted at different wavelengths. As for the second project, by students Mahmoud Fayyad and Muhammad Jawabreh, supervised by Eng. Mamoun Al-Tantawy from also the Department of Electronics Engineering, it is a project that uses inertial motion capture based on built-in sensors to detect position and movement, including gyroscopes and accelerometers, which can be used in various applications such as sports therapy follow-up, movies and industry. computer games. And the third project by female students Salsabil Al-Husaynat, Sarah Al-Momani, and Nour Naseer, supervised by Dr. Sharif Abdel Razeq from the Department of Communication Engineering. It is a project that uses the Internet of Things to analyze insomnia, as it can help doctors know the best conditions and vital signs of the body and help people with sleep difficulties to obtain a Better sleep.

It is noteworthy that the SOFEX military conference and exhibition specializes in equipment for special operations, internal security and defense industries technology, and provides a platform for the participation of decision-makers, commanders and military officials to exchange practical and theoretical experiences and transform opportunities into real partnerships to neutralize future threats.



## Hijjawi Faculty Students Win First and Third Places in Student Projects Contest at JUST

Hijjawi Faculty students won the first and third places in the entrepreneurship hackathon competition, which was organized as part of the SAXEED.ECO activities supported by the DAAD organization and in partnership between Yarmouk University, Jordan University of Science and Technology, Mosteghanemi University in Algeria, and Chemnitz University in Germany.

The achievement, under the supervision of the Entrepreneurship and Innovation Center in the university, came after intense competition between 15 student teams from the universities of the countries participating in the project, which presented entrepreneurship projects in the field of a friendly environment. The student team consisting of students Ahmed Shehab, Sarah Husban, and Al-Harith Mahmoud from the Civil Engineering Department won first place for their project "Exploitation of zebar material resulting from the waste of olive presses in the field of construction," as this material is considered an environmentally hazardous material, especially on the soil.

The student team, consisting of students Abdullah Naamneh from the Department of Electronics Engineering, Muhammad Al-Awdat from the Department of Electrical Power Engineering, and Lamis Rawashdeh from the Department of Chemistry won third place for their project "Maeen", which revolves around ways to reduce the rate of evaporation from Dams and water bodies.





## Cluster Team at the Architectural Engineering Department Organizes a Welcome Day

The Cluster Team at the department of Architectural Engineering held a welcome day for the fresh architectural students for the academic year 2022--2023. The event was organized to introduce the students their major and to provide them with the support and guidance they need through university from the faculty, the department, and their follow students. The event started with a word from the head of the department welcoming the new students, followed by presentation from few architecture professors to introduce the student to the branches of architecture. The event ended with a student's section to shear their experience as architecture student in Hijjawi faculty, followed by Q&A from students to professors.



### Hijjawi Faculty ACI Student Chapter attends a Movie Show "Burj Khalifa"

The ACI student chapter at Yarmouk University organized an event of a movie show for civil engineering and architectural engineering students at the movie theater in the Al-Hussein Bin Talal Library. The movie summarized the main steps of constructing the tallest building on the planet "Burj Khalifa" in Dubai. With 830 meters high, the tower stands on more than 160 floors and has more than 10,000 residents. More than 80 students attended the show. In the end, Dr. Faris Matakah, the advisor of the chapter, provided a talk summarizing the main challenges that face the engineers during the construction and the creative solution provided.



### Hijjawi Faculty ACI Student Chapter Participates in the ACI Workshop in Amman

The ACI student Chapter of Yarmouk University, represented by Batool Rababaa and Ahmed Bani Younis, participated in a workshop, hosted by the Royal Scientific Society (RSS) on Saturday, December 17 under the patronage of HRH Princess Sumaya bint El Hassan, and the organization of the Association Jordan Concrete, in cooperation with the American Concrete Institute. The workshop aimed to address the most important points regarding the evaluation and rehabilitation of existing concrete facilities. During the workshop, the importance of the ACI Code was introduced to help in solving problems facing existing constructions and buildings. Dr. Charles Nmai, the president of the ACI, emphasized the importance of conducting specialized workshops and training; to raise knowledge in the field of concrete.



## Hijjawi Faculty ACI Student Chapter Participates in THE BIG 5 International Building & Construction Show



The student branch of the American Concrete Institute from the Department of Civil Engineering at Al-Hijjawi College of Engineering Technology at Yarmouk University participated in the international exhibition The Big-5 in the United Arab Emirates.

The students were briefed on the latest technology used in the construction and building works, and they also participated in the scientific workshops held at the exhibition, which are related to the optimal use of modern devices, equipment and advanced technology in the implementation of mega projects in the Emirate of Dubai

On the sidelines of the exhibition activities, the student delegation, which included Ahmed Al-Amra, Malik Abu Al-Haija, Yasmine Safaqa and Rama Marian, participated in the American Building Code Structural Design Course, which was held by the American Concrete Institute at the World Trade Center in Dubai for two days.

At the American University of Sharjah, Yarmouk University students presented an introduction to the activities and events carried out by the branch at Yarmouk University. The student delegation of Yarmouk University was briefed on the activities of the student branch of the American Concrete Institute there, and they were briefed on the latest research work in the field of structural engineering in the university laboratories.

The supervisor of the student branch at Yarmouk University, Dr. Faris Matalqa, said that the participation of students in such events enhances the scientific capabilities of students and contributes to creating partnerships between university students and international institutions and companies related to the engineering sector, and also contributes to the exchange of knowledge and experiences between university students and university students. International participating in the exhibition.

For his part, the Dean of the Hijjawi College of Engineering Technology, Dr. Mwaffaq Otoom, praised the distinguished efforts made by the student branch of the American Concrete Institute in the Civil Engineering Department, expressing at the same time his thanks to the Hisham Hijjawi Scientific Foundation for its support for the participation of students in this event.



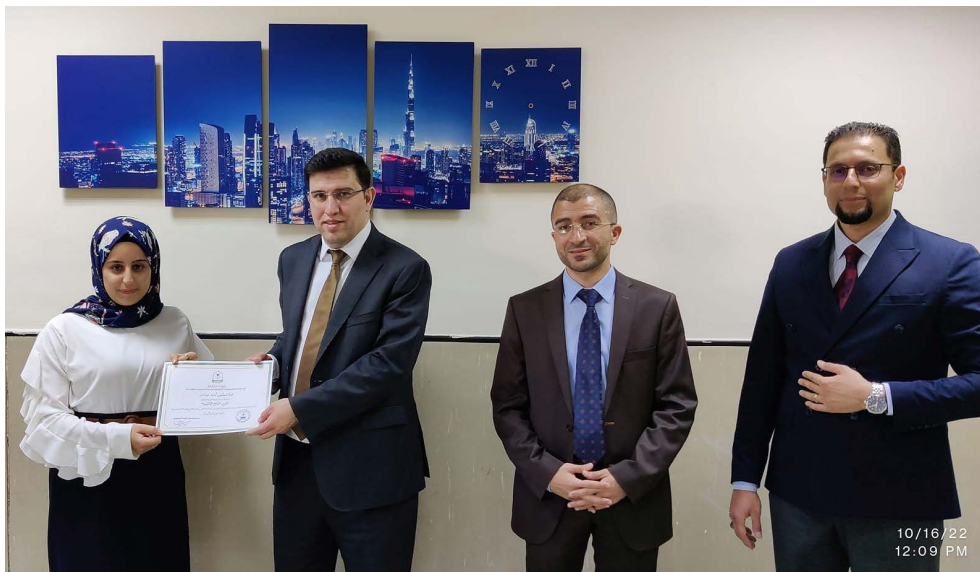
### Hijjawi Incubator Graduates the Participants in the Web Development Training Course

The Scientific incubator of Hisham Hijjawi rolled out a 30-hour web development course for beginners using HTML, CSS, and WordPress to build different static and dynamic websites. Students from various specializations (Engineering and Informatics) were involved and got the theoretical and practical sides over two months, according to a studied plan to maximize the benefit, achieve the desired goals of improving their design and research skills, and enable them to build professional websites in a short time.

At the beginning of the first semester of 2022, the incubator held an event to honor the participants in partnership with the Dean of the Hijjawi College of Technological Engineering, Prof. Mwaffaq Otoom, his vice Dr. Mohammad Al-Zubaidi and Dr. Ahmed Koran.

It is worth noting that the incubator rolls out this course every summer to achieve its vision and mission of helping university students to engage with the labor market and increase their efficiency to create opportunities with their abilities.

Yarmouk University's students can join the course by filling out a form published via the incubator's official Facebook account and the University's emails.



## Graduation of the Graphics Design Workshop

The Dean of the Hijjawi Faculty for Engineering Technology participated in the graduation ceremony of the Graphics Design workshop, that was delivered online by Firas Ramadan, BS student in Industrial Engineering. 108 students participated in this workshop, which covered several topics in graphics design, including hands-on experience.



## The Robotics Team Conducts a Training Course in Arduino

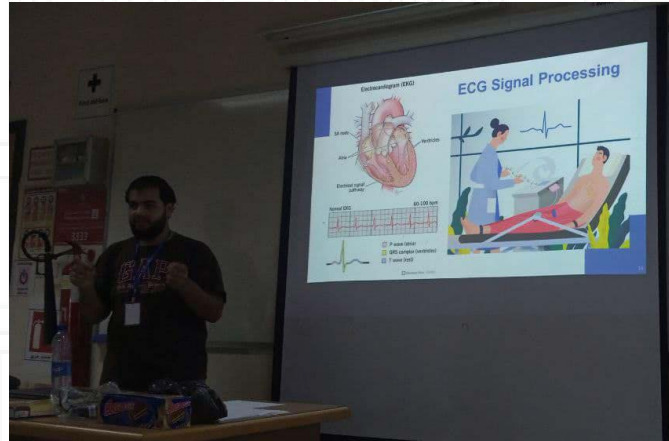
The Robics team from Hijjawi Faculty for Engineering Technology held a 9-hour training course in microcontrollers (Arduino) in the Robot Innovation Lab at Yarmouk University at Entrepreneurship and Innovation Center at Yarmouk University, where the course covered various topics in electronics, electronic systems, microcontrollers, sensors, and methods for developing an engineering project. 25 students of the Information Technology benefited from the course.





## The Robtics Team Conducts a Training Course in Matlab

The Robtics team from Hijjawi Faculty for Engineering Technology held a 20-hour training course in the programming language MATLAB at the Entrepreneurship and Innovation Center at Yarmouk University, where the course specialized in medical engineering topics, analysis of medical signals and specialized programming. 25 students of biomedical engineering enrolled in the course which was given by a member of the Robtics team, student Khaled Walid.



## Hijjawi faculty for Engineering Technology Hosts "Jordan Start"

"Jordan Start": an organization involved in sponsoring entrepreneurs, held a session in Hijjawi Faculty for Engineering Technology to present their new initiative for young entrepreneur "Social innovation and Entrepreneurship program", in association with UNICEF.

The initiative targets the young entrepreneurs under the age of 24 years, which includes financial funding and technical support in terms of workshops and seminars to introduce the applicants to the market place and business atmosphere in the region.

The seminar introduced the students to the multiple funding opportunities available and the application process for the program. Moreover, applicants from previous projects shared their experience with the organization, the opportunities in Jordanian market and opening their own business.



## Hijjawi Faculty Organized a Workshop on a Roadmap for Cyber Security Students

In a joint cooperation between IEEE Computer Society branch at Yarmouk University and Pioneers Academy for Consultation and Training, Hijjawi faculty hosted "A Roadmap for Cyber security Students" workshop presented by Eng. Muhammad Abu Alawi, recipient of the Excellence Award 2022 granted by CE-Council.

The workshop began with a welcome speech from the Vice Dean, Dr. Ahmed Koran, praising the efforts made by the organizers to hold the workshop, and the welcoming Eng. Muhammad Abu Alawi in Hijjawi faculty. Koran also highlights the faculty endeavor to host other workshops and scientific seminars during the academic year to enrich the knowledge of the Hijjawi students in cooperation with student associations, university professors and governmental and private institutions in Jordan. Following Koran, Mr. Ayman Al-Lahham the Director of the Pioneers Academy welcomed future calibration with the university and thanked the faculty and IEEE for the invitation. Al-Lahham finished his word stressing the need to increase cooperation between universities and various institutions to develop the capabilities of Jordanian graduates in the internal and external labor market.

The workshop included an explanation of the nature of work in the cyber security sector, how to integrate students from computer engineering and computer science into the labor market and the skills students need to develop and study to enter the field of cyber security. Abu Alawi also presented studied cases of hacking operations for protection systems of different institutions and the different ways to solve the weak points in the systems. The workshop ended with honoring the members who participated in organizing the workshop and granting few students free workshops.





## Two Hijawi Faculty Students Present their Project at JODDB

Two students, Hussam El-Din Musallam (Communications Engineering) and Muhammad Musallam (Mechanical Engineering) were selected under the supervision of Dr. Sherif Abdel-Razeq from the Communications Engineering Department, to make a presentation for their project. "IoT-Based Smart Gloves for Deaf and Mute"

This is as part of the progress of the project to support research and creativity for university students for the year 2022--2023, which was launched by the King Abdullah II Fund for Development in 2004 and is implemented in partnership with the Jordanian Center for Design and Development.

The idea of the project is based on helping the deaf and mute to communicate with the community by converting sign language into spoken and written language and helping the deaf and mute - especially the elderly - to control the house through the Internet of smart things.





### Hijjawi Faculty Hosts Remote Lab Training Workshops Delivered by H-BRS / Germany

Hijjawi Faculty for Engineering Technology hosted workshops in remote labs in the period from December 4th –6th delivered by faculty members and professionals from the Bonn-Rhein-Sieg University in Germany. The training mobility is fully sponsored by the Yarmouk University Remote Lab (YURL) project, funded by the German Academic Exchange Service DAAD. The project aims at establishing a remote lab at the Hijjawi Faculty for Engineering Technology and having some take-home lab modules along with the capacity building of students, lab engineers and faculty members.

In the first day of the training, the YURL coordinator, Prof. Mwaffaq Ootom and Prof. Rainer Herpers, the Project Coordinator at H-BRS and all team members held a consortium meeting under which they discussed the project progress and ways of maintaining the project website to ensure the sustainability of the project beyond the project life span. Both Prof. Ootom and Prof. Herpers indicated the impact of the project at enhancing the students, lab engineers and faculty members' skills in topics related to remote labs and in providing the proper training to design and develop remote labs in the Hijjawi Faculty for Engineering Technology. Future collaborations in related topics were also considered.

During the first day of the training, a workshop was delivered. The workshop targeted both students and faculty members. The workshop covered topics related to the implementation of project-based learning (PBL) with interdisciplinary teams and it also included a Presentation of Hands-on-Mini-Projects and a homework. The workshop focused on one of the ways of teaching competence oriented learning under which both faculty members and students were engaged in activities to apply activating learning methods and observe and apply the principles of neuro-didactics and constructivism. Moreover, this will also impact the importance of Learning as a construction of knowledge and how to activate larger learning groups, and various activating methods for use in teaching. Students were involved to work on mini projects to properly engage them in Project oriented learning – how to set up modules with a high amount of practical projects and how to make use of extra-curricular student activities.





The workshop extended for two days at which the students examined different projects covering various engineering disciplines and the use of MATLAB to solve such engineering problems. Students explored and analyzed the different problems working individually and in teams. This in turn fostered an understanding of the Project oriented learning and students' engagement as a vital pillar in the teaching environment.

The second day of the training included preparation and installation of the FPGA remote lab based on several workshops that were held before on how to setup a remote lab with the weblab deusto remote lab management system (RLMS).

In the last day of the training, two workshops were held. A continuation of the workshop held on the first day of the training took place where students were involved to work on mini projects to properly engage them in Project oriented learning. The second workshop targeted both students, lab engineers and faculty members on FPGA Remote Lab and provided a short introduction to FPGAs and VHDL and possible applications for the FPGA remote lab and included a hands-on experiment with the FPGA remote lab.

It is worth mentioning that the consortium meeting included exploring Ideas on a continuation of the project to set up other remote labs and have some take-home labs for the Hijjawi Faculty for Engineering Technology students. In addition, the workshops included several social activities at which H-BRS professors take pleasure in being connected to peers, groups and other professors.





### Architectural Engineering Students Participate in the "Arab Architects Awards"

Architectural Engineering students participated in the activities of the "Arab Architects Awards" event hosted by the Jordanian Engineers Association and organized by the Arab Architects Association, which was held on Nov. 2022 at the Hussein Cultural Center in Amman, where the students of the department have taken part in six architectural projects within multi courses in the department.



### The Biomedical Systems and Informatics Engineering Visits to the King Hussein Cancer Center

The Biomedical Systems and Informatics Engineering organized a field visit to the King Hussein Cancer Center under the supervision of Prof. Awad Al-Zaben, Dr. Ihssan Masad, Dr. Ateka Khader, and Eng. Alaa Al Badarneh. The students attended the Twelfth Scientific Day of Biomedical Engineering activities, which was held at the King Hussein Cancer Center by the Jordanian Medical Engineering Society in cooperation with the Electrical Engineering Division of the Jordanian Engineers Association.





### Architectural Engineering Students Participate in the "Arab Architects Awards"

Our architecture graduate Eng. Salam Miqdadi with group of five graduates from different universities, in (يلا عالجامعة) project in "نقلنا مستقبلنا" competition, under the patronage of the Ministry of Transportation, which is organized by A/E Business Engineering council in collaboration with the Regional Climate and Energy Project MENA at the Friedrich-Ebert-Stiftung. Five projects were qualified for the final arbitration, which included a presentation of challenges and proposed solutions for transportation and mobility problems in the Kingdom.



### Biomedical Systems and Informatics Engineering Students Visit EHS

Dr. Ahmad Al-Omari, the head of the Biomedical Systems and Informatics Engineering Department accompanied by Dr. Ateka Khader, and 40 students visited Electronic Health Solutions (EHS) launched (Hakeem), the first national initiative of its kind that automates the public healthcare sector in Jordan, under the patronage of His Majesty King Abdullah II Bin Al Hussein.

The visit was on 32002/10/ and aimed to connect the industry with academia and bridge the theoretical courses with the real work



## Biomedical Systems and Informatics Engineering Organizes a "First Aid" workshop for its Students

On Tuesday, November 29, 2022, the Altakaful Health Center of the Takaful Charity Association held a health training workshop entitled "First Aid" at the Zain Innovation Platform on the Yarmouk University campus, which came at the invitation of the "Team IEEE EMBS - Yarmouk University Student Chapter" in cooperation with Hijjawi Faculty for Engineering Technology. A group of faculty members and students from various academic disciplines attended the workshop. The training workshop included several topics related to first aid and the importance of implementing such workshops, especially in university environments. The workshop introduces students to the concept of first aid, its purpose, first aid bag equipment, and the skills and competencies that a paramedic must have to deal with emergency incidents.



## Biomedical Systems and Informatics Engineering Students Complete the Python Workshop

A group of students was awarded certificates by Dr. Ahmad Al-Omari, the head of the Biomedical Systems and Informatics Engineering Department accompanied by Dr. Ateka Khader, for completing the Python workshop on 20-10-2022.



## Computergy Team Organizes TeCH+ Conference

Students of Compuergy Team has arranged a TeCH+ conference in cooperation with the Department of Computer Engineering and the SDK Academy for Programming and Development. The conference lasted for three days (1511-20, 11- and 2311- of 2022). Over the Three days students of the Computer and Electronics Engineering Departments were introduced to career paths in the fields of computer and electronics specialization. Lectures were given about career path for most of the pioneering, advanced and required fields in the labor market such as artificial intelligence, mobile application programming, website programming.

The conference also introduced students to the LinkedIn platform and how to create an integrated page and how to search for required jobs. Scientific booths were presented inside Wissam Bushnaq Hall and student projects were presented by students. On the last day, the conference included interactive and entertaining scientific competitions for students.





## New IEEE Societies Student Chapters Annual Meeting

Dean of the Faculty of Engineering Technology participated in the annual meeting of the new IEEE societies student chapter board. The Dean congratulated the new board, encouraging them to have a very promising plan for this academic year, full of activities and successful participations. He conveyed to the students the greetings of President Massad and his full support to their activities.

After that each IEEE branch gave a summer representing their accomplishment through the past year, followed by their plans and strategies for the current year, which include seminars, trips, events, volunteer work, and competitions.

Hijjawi faculty holds 7 IEEE societies: IEEE Engineering in Medicine and Biology Society (EMBS) Chapter, IEEE Computer Society (CS) Chapter, IEEE Industrial Applications Society (IAS) Chapter, IEEE Robotics and Automation Society (RAS) Chapter, IEEE Communication Society (ComSoc) Chapter, IEEE Power and Energy Society (PES) Chapter, IEEE Women in Engineering (WIE) Affinity Group.

The meeting was attended by faculty administration members, societies advisors, faculty members and IEEE societies members.



### IEEE CS Student YU Branch Participates in the IEEEExtreme Competition

IEEE computer society branch in Yarmouk university participated in the IEEEExtreme competition. IEEEExtreme is a global challenge in which teams of IEEE Student members compete in a 24-hour time span against each other to solve a set of programming problems. over 14000 registered participants across 6300+ teams from over 65 countries joined the competition in the 2022 addition where three teams from IEEE computer society in Hijjawi Faculty joined the competition. This year the Jordanian teams were hosted at Al Hussein Technical University as different university host the event each year to provide technical support for the participated teams.



### IEEE YU Student Branch Participates in the JSYP Congress "Change Your Mindset"

Jordan Students and Young Professionals Congress (JSYP), in collaboration with IEEE Young Professional, held a congress in Hashemite university for undergraduate students aiming to create an effective role for the younger generations in the world of innovation and leadership. The event included guest speakers from academic and professional background shearing their though the future of the work environment and their experience to duel with the rapid change in technological for the young generation of engineers and the now opportunities in the new millennium. With over 350 participant form 10 Jordanian university selected IEEE branches were chosen to represent their ideas and work through booths to be evaluated and guided to polish their work. IEEE YU branch was one of the selected branches.





### IEEE CS Student YU Branch Participates in AHU ATE Conference

Al-Hussein Bin Talal University hosted AHU ATE conference for IEEE sections in Jordan. The IEEE conference included multiple sections and seminars to discuss the latest technological challengers in computer and communication engineering. Multiple sessions were held by professors and engineers from the public and private sector on cyber security, IoT, graphic design and 5th generation communication system



### IEEE Students Participate in the MENACOMM Conference

IEEE students participated in the 2022 IEEE Middle East & North Africa Communications Conference (MENACOMM 2022), held in Al-Zaytoonah University of Jordan. The conference was organized by the IEEE ComSoc & Signal Processing Joint Jordan Chapters and the IEEE Jordan Section and in cooperation with the IEEE ComSoc Chapters.

The conference theme was "Advancing the Communication Vision", in which the focus was on new technologies and trends that will shape how we preserve communication and its role in the future. The conference aimed to showcase how new ideas in telecommunications, such as the use of machine learning, would transform the way such systems are designed and operated, in addition to their overreaching effect on various applications such as virtual and augmented realities, machine-to-machine communication and the internet of things. The conference had scientific papers presented from 21 countries and attendees from academic and professional backgrounds.





### IEEE CS Student YU Branch Participates in AHU ATE Conference

A workshop on the Internet of Things was held in association with Jordan Engineers Association in Irbid and IEEE YU ComSoc Student Chapters. The workshop introduced the participants to the possibilities of technology to be integrated in everyday activity of the consumer. The main focus of workshop was on the Jordanian market regarding the IoT, as the possibility to be integrated to aspect such as health sector, small business, education and mobility, where such aspects are compatible to the Jordanian manufacturing capability and needs. The workshop represented multiple studies and case of integrating the technology such as controlling your home equipment through phone and the ways to improve upon it.



### IEEE-PES YU Student Chapter Introduces the Electrical Power Engineering

Electrical Power Engineering overview workshop was held in the Hijjawi Faculty for Engineering Technology -- It was the second of the series workshops organized by Yarmouk IEEE Power and Energy Society (PES). The workshop included an introductory information for the different topics of power engineering, related application in industry, and illustration for the plants and places where the power engineer could be after graduation, the workshop topics were presented by some of faculty members and volunteer students.



## The IEEE Robotics and Automation Society Organizes a Meeting

The IEEE Robotics and Automation Society organized a meeting to introduce the new students in the Electronics Engineering Department to the IEEE-RAS activities and its importance for developing students' scientific and technical skills, in addition to developing their communication skills and the connections with specialized agencies.

The student, Rama Shobash, gave a detailed presentation on the branch's tasks, its various activities, and the proposed plans for the next year. Dr. Yusra Obeidat from the Electronics Engineering Department talked about the electronics engineering major and its various fields, job and training opportunities. She emphasized the need for students to focus on understanding the disciplines they are studying and to follow the recent developments in the various fields of specialization, and the need to develop skills that the labor market needs, which would guarantee job opportunities for students after graduation. The meeting included personal experiences and advices from the senior students to their colleagues, where the student Al-Tayeb Rezq talked about the need for self-development and understanding the labor market and its needs to reflect on the student's style of study and increase his knowledge. The meeting also included various entertainment competitions.





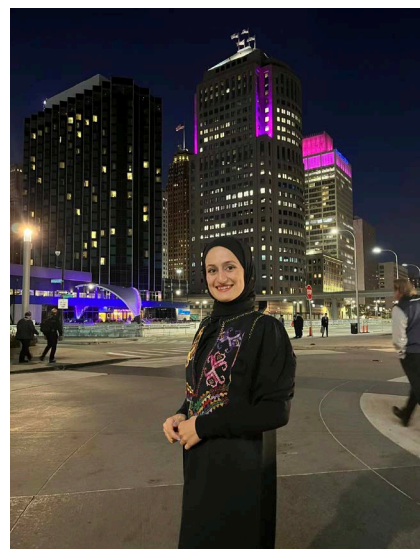
### Three Students from Hijjawi Faculty Participate in the IEEE WIE ILS 2022 in Egypt

With a support by the IEEE Industry Applications Society, Fatima Zamil, BS student in the Biomedical Engineering Dept., and Tala Alzoubi and Lara Aqli, BS students in the Industrial Engineering Dept., participated in the IEEE Women in Engineering International Leadership Summit 2022, which was held for the first time in Cairo, Egypt on November 21--22, 2022, at the German University in Cairo.



### A Student from Hijjawi Faculty Participates in the 57th IAS Annual Meeting 2022 in the USA

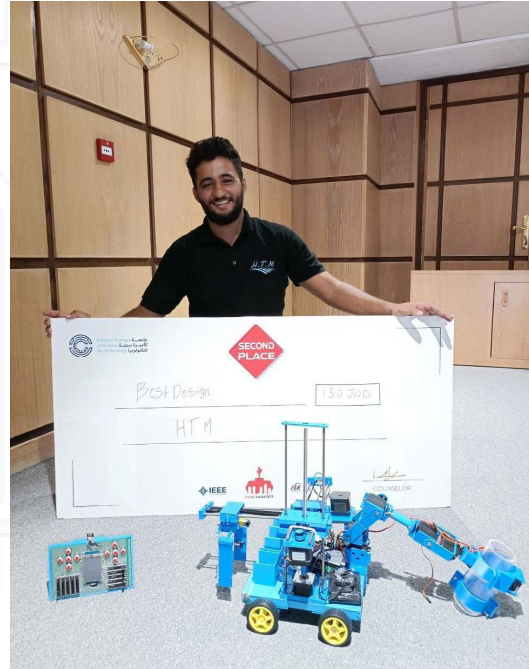
Fatima Zamil, BS student in the Biomedical Engineering Dept., participated in the 57th IAS Annual Meeting, which was held 9--13 October 2022, in Detroit, Michigan along with the 2022 ECCE technical conference, supported with a fund from The Scientific Foundation of Hisham Adeeb Hijjawi.





## A Student Wins in the Fire Fighter Robotics Contest

Princess Sumaya University for Technology (PSUT) held (Fire Fighter Contest). This national event was technically sponsored by the IEEE RAS Jordan Chapter and (21) teams from many and different Jordanian universities participated in this contest. The participants competed on designing a firefighting robot. The best design (second place) prize went to a team at Yarmouk University (YU). The Team name is H.T.M, represented by student Majdi Al-Manaseer.



## IEEE CS YU Student Chapter Holds its Annual Welcome Meeting

IEEE CS held its annual meeting to welcome the new member for the year 2022--2023. The meeting included a word from the team leader introducing the society mission and goals for the new members. Furthermore, the new year plans for the section from volunteer work, workshops, trips and proposal activities from members were presented to the society members for discussion. The meeting finished with team building exercise followed by an open discussion with the new members.



## Erasmus+ Fall 2022 / 2023 Students

**Abduallah Al-Ajlouni**

Civil Engineering  
University of Minho/ Portugal



The most thing I like here in Portugal is that "PEOPLE ARE SO NICE".

It is a really big opportunity to any student at Yarmouk university to get benefited from the international mobilities that they offer for us each semester. I encourage all students to apply for these scholarships so you can travel, meet different people, make new friends, know more about different cultures and try new food for sure!

**Diaa Trad**

Computer Engineering  
Mälardalen University/ Sweden



Imam al-Shafiee said: "Travel! because there are five benefits in traveling; relief of adversity, earning your living, getting more knowledge, more values, and accompanying noble people."

As someone who has not been abroad before, this opportunity is considered one of a kind for me.

So far, it has been a great experience since I met people from all walks of life, different backgrounds and different cultures; which widens my horizon and my perspective of life, enriches my personality and improves my communication skills. Also, this opportunity allowed me to explore different approaches for teaching my area of study and gain more experience it.

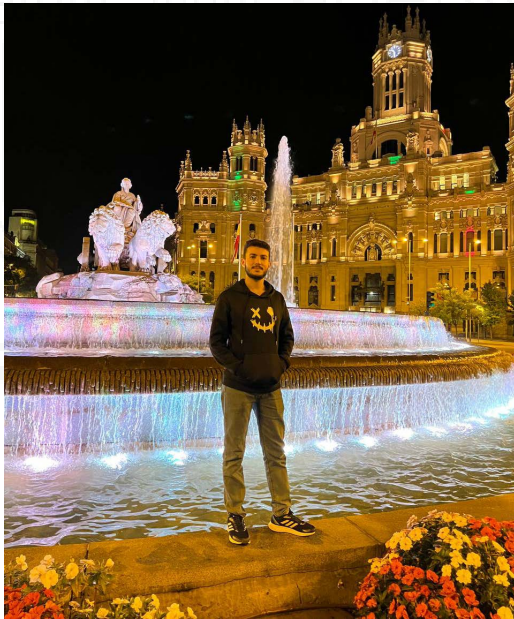
Hopefully, I will seize every single moment of the rest months here achieving more and enriching my experience.



**Ibrahim Shahin**

Computer Engineering

Polytechnic Institute of Cávado and Ave/ Portugal



I can't talk about everything or express how it feels exactly, so I will just say that it is a once-in-a-lifetime experience that everyone should have. The city, the people, the professors, everything and everyone here is really nice. And what I love the most is the amazing nature that surrounds us on all sides. The mountains covered in trees, the river across the city, and the big blue sky above us, which turns black at night with the stars and the moon lighting it is just ..., I don't even know if there is a word to express it, so I will let you fill it by yourselves. There is still a lot more to tell about this great experience, but I will stop here and let you feel it when you try it.

**Mohammad Alsamhoury**

Computer Engineering

Mälardalen University/ Sweden



I have chosen Erasmus to try new things, meet new people from different cultures, try another academic environment, and to develop some skills like speaking and thinking in English, and self-reliance.

I visited different cities, talked to new friends from different backgrounds about morality, conciseness, religions and different worldviews.

So far, I am satisfied with what I am achieving here, either culturally, academically, or personally.

This journey added and still adding a lot to me, I will back to Jordan with full of experience.

It is really worthy!



**Qamar Aloqaily**

Civil Engineering

Silesian University of Technology/ Poland



I was lucky enough to get accepted into the student exchange program, ERASMUS+ at the Silesian University of Technology in Gliwice, Poland to study for the first semester of 2022/2023/.

My experience with this program was not easy, I applied multiple times until I got accepted into my current program. First coming here was a bit difficult regarding the language barriers, the new lifestyle and the country's cultural background and lifestyle. It was a bit hard at first, however after almost two months of living in Poland, specifically Gliwice city, I learnt so much about the place and the people there, but mostly myself as well. There are so many aspects of yourself you never discover unless you travel abroad on your own.

I still have a long way to go here and I'm cherishing every moment and enjoying as much as I can.

This was the opportunity of a lifetime for me, and I am very grateful I took that step.

**Yazeed Sopuh**

Computer Engineering

Mälardalen University/ Sweden



As a student majoring in engineering and living in a third-world country, I have always admired the European civilization; nations that, despite their cruel history, harsh circumstances, and brutal lifestyle, were able to unite, rebuild, and prosper.

Since the beginning, I've always had the plan of doing anything I wanted in Europe, as it will offer me a greater chance to be part of the scientific revolution and seek a great perhaps.

Thankfully, I got the chance to study for one year in Sweden, a diverse, advanced, and beautiful country. I can't wait to go back to Jordan and share my knowledge and experience with my colleagues and friends.

### Hijjawi Faculty Organizes a Workshop on "Summer Work and Travel in the USA"

The Hijjawi faculty for Engineering Technology held an event entitled "Summer Work and Travel in the USA." This event was presented by Omar Abushukair, Electrical Power and Machinery Engineering Department, and Eva Al-Falahat, Civil Engineering Department; they discussed one of the most important cultural exchange programs for university students. Besides, students of Hijjawi faculty who were in this program last summer shared their experiences with other students and presented the advantages and disadvantages of this program. In addition, the faculty hosted the Travel Gates office to answer the students' questions. They gave them advice on other programs suitable for graduate students.



### "All Jordan Youth" Commission Organizes a Workshop for Hijjawi Faculty Students on Artificial Intelligence

"All Jordan Youth" Commission organized a 15-hour workshop for Hijjawi Faculty Students on Artificial Intelligence





## A Moment of Silence in the 50th Anniversary of the Martyrdom of the Former PM Al-Tal

On the occasion of the 50th anniversary of the martyrdom of the former Prime Minister Wasfi Al-Tal, Hijjawi Faculty organized a moment of silence to read Al-Fatihah on his pure soul. The importance of reviving this occasion comes to get acquainted with the march of the martyr Wasfi Al-Tal, his stances, his patriotic role, and his political career, which was characterized by courage, adherence to opinion, strength, integrity, and popular leadership qualities. Wasfi Al-Tal is considered a national figure who assumed the position of prime minister and contributed mainly to crystallizing the Jordanian national character.



## A Moment of Silence for the Martyr Abdel-Razzaq Al-Dalabeh

A moment of silence was held in Hijjawi faculty for Engineering Technology to pray and read Al-Fatihah on the soul of the martyr Abdel-Razzaq Al-Dalabeh. The stand was organized by students and attended by the Dean and faculty members to honor the soul of the martyr and in solidarity with his family. The martyr was hit with a bullet to the head while dealing with riots that were being carried out by a group of vandals and outlaws on the 15 of December 2022.





## Football Game between Hijjawi Students and Faculty members

Hijjawi Faculty Students organized a Football Game between students and faculty members in the kickoff of the Fall term of the 2022--2023 year.



## Hijjawi Faculty Students Adopt "Keep them warm" Initiative

In partnership with the Deanship of Student Affairs and nonprofit organizations, Hijjawi Faculty for Engineering Technology held a clothes donation initiative "keep them warm" to help unfortunate people in the winter.

The initiative was held for 3 days in the faculty, where faculty students helped organizing the donation process though advertisement in social media and in the faculty. Throughout the 3 days, students and faculty members donated cloths, and showed their support for the initiative encouraging the initiative to be a regular event.



## Hijjawi Students Organize a Workshop on: Andalusia between Civilization and Architecture

Hijjawi Faculty for Engineering Technology students organized a workshop entitled (Andalusia between Civilization and Architecture) to discuss the cultural heritage of the Islamic era in Europe.

The ceremony began with a presentation by Dr. Ahmed Al-Shennaq, a member of the Royal Commission for Political Reform, where he gave an overview of the Islamic civilization in Andalusia, the stages the region went through in terms of political and regional changes, and the reasons for the prosperity and decline of civilization. He also touched on the Islamic cultural impact on the European continent in that period.

Dr. Fares Matalqa, Associate Professor in Civil Engineering, presented an architectural explanation of the Alhambra Palace in the city of Granada, where he discussed the methods used to construct the palace from the architectural and engineering dimension. He also touched on the water delivery system in the palace and the most important architectural signs in the palace.

Dr. Muhammad Abu Hussein, Assistant Professor of Architectural Engineering, gave a presentation on the cultural and human impact of the Emirate, where he highlighted the changes that civilization went through in terms of progress and its impact on the neighboring kingdoms, and the doctor gave indications about the cultural and human heritage of the Emirate, which is still present in contemporary history.

The ceremony included an Andalusian performance and a dialogue session with the students. The workshop was organized by the student Bashar Al-Azzam and the student Rama Daqamseh.





## Hijjawi Faculty Graduation Ceremony for Summer 2021 - 2022

Yarmouk University held physically its graduation ceremony for Summer 2021--2022. We leave you with some pictures from our Hijjawi Faculty Graduation Ceremony.



# Faculty Members News

Two Faculty Members Among the Top 2% Most Influential Researchers Worldwide



**Prof. Dr. Muwaffaq AlOmoush**

Electrical Power Engineering  
Department



**Dr. Hazim Shakhatra**

Communication Engineering  
Department

Hijjawi Faculty for Engineering Technology recorded a new scientific achievement for its researchers, after two of its faculty members achieved outstanding results in the classification of the "top 2%" of the most influential researchers in the world at the level of specialization for the year 2022, according to a study issued by Stanford University.

The researchers are Vice President for Academic Affairs Dr. Muwaffaq Al-Omoush from the Department of Electrical Power Engineering and Dr. Hazim Shakhatra, from the Department of Communication Engineering. This classification is based on scientific citations, the "h index" that takes into account the scientific production of the researcher, the "hm index" that takes into account the number of authors in published scientific research, and the citation of scientific papers based on the location of the "researcher" author. The classification also included researchers' data in the Scopus database.



## Instructive YURL Training Workshops for Hijjawi Faculty Members in Bonn Rhein-Sieg University of Applied Sciences, H-BRS, Germany

As part of the YURL DAAD funded project, Bonn Rhein-Sieg University in Germany delivered several training workshops in diverse topics including remote labs, Take home labs, hybrid kits, video labs and the formula student competition in the period from October 18 - October 21, 2022. Four faculty members from the Computer Engineering department participated in these workshops.

During the first day of the training, the formula student competition workshop was conducted by Prof. Dr Dirk Reith, Managing Director of the Institute for Technology, Renewables and Energy-efficient Engineering (TREE) at H-BRS, Jan Behrendt and Daniel Rothgen, master students at H-BRS.

The workshop aimed to present the competition as an example for complex engineering experiences with a problem-based learning approach. In the competition students build a single seat formula racecar with which they can compete against teams from all over the world. The competition is not won solely by the team with the fastest car, but rather by the team with the best overall package of construction, performance, and financial and sales planning. In addition, the workshop provided examples of how to integrate Formula student knowledge and topics into the engineering curriculum.

Three intensive workshops were conducted during the second day of training, the first workshop was on setting up remote labs, which was conducted by Eng. Andrea Schwandt, Mechanical Engineering and Technical Journalism at H-BRS, Coordination Digital Internationalization of the department (DIF) Research associate. Participants had the ability to examine the hardware components used to implement the remote lab along with the wiring and server connections. In addition, an illustration about the webleb deusto remote lab management system (RLMS) was delivered showing the software and configuration files required to run the system on the servers. Some image and video processing experiments were discussed and run remotely on the existing system in the university.



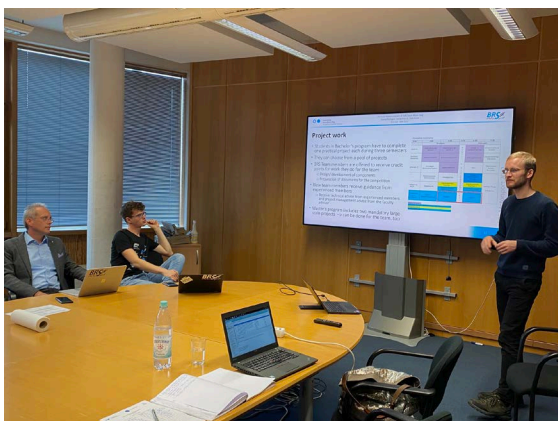
The second workshop focused on Take-Home Labs, the workshop was conducted by Prof. Dr. Iris Gross, Vice Dean of Department of Electrical Engineering, Mechanical Engineering, and Technical Journalism at H-BRS. In the workshop, an introduction about the experiences of H-BRS in this field during COVID-19 pandemic was presented. Take-home labs are high quality, inexpensive, engineering laboratory experiments that can be done all at home. The materials can be used several times. The core of each experiment is an inexpensive microcontroller, such as an Arduino, or a Raspberry Pi. Students are provided with the required materials to have hands-on experiments at home. Prof. Dr. Gross showed some experiments done by students, the deliverable reports, videos, and presentations, and illustrated the rubrics used for grading.

The third workshop was related to the Hybrid kit and hybrid courses. Andrea Schroeder, Director of the Center for Innovation and Development in Teaching, and Michael Malschuetzky, Research Associate at H-BRS, presented the component of the Hybrid kit and demonstrated how to use this kit to prepare and conduct a hybrid course. The Hybrid kit contains a camera with different lenses, a tripod, wireless speaker, and a remote control to move the camera to pre adjusted positions. This kit can be used with any video conferencing platform such as Zoom or Webex. Participants got a chance to try the kit, and at the end of the workshop, a discussion was held regarding the ability to transfer the H-BRS experience on hybrid courses at the Hijjawi Faculty for Engineering Technology.

The third day of training commenced with a day-long project coordination meeting which included in-depth discussions regarding the topics covered in the workshops, providing feedback on the training and planning of activities to be delivered in future workshops at Yarmouk University. At the end of the day participants got the opportunity to experience a fine meal while networking with other professors.

In the last day of the training, a workshop related to producing a video in the video lab was delivered by Habiba Mohtadi and Tim Trampert. The video lab is a room configured for video recording, equipment includes a video camera, microphone, studio lighting, greenscreen, teleprompter and video recording equipment that either saves videos to a computer or a USB drive. The aim of this workshop was to produce a video that can be used at Yarmouk University. Participants had a wonderful studio experience that provided a high-quality video.

This is the second training workshops delivered in H-BRS, Germany. Participants expressed their interest in continuing such workshops in the future to enrich their skills, knowledge and to utilize these training Workshops in Hijjawi Faculty for Engineering Technology.





### Dr. Shehadeh Participates in the "Let's Talk About Entrepreneurship!"



One of the primary strategic goals of the Hijjawi Faculty for Engineering Technology is to enhance the capabilities of its students in the field of innovation and entrepreneurship. Dr. Ali Shehadeh from the Civil Engineering Department participated in a panel discussion entitled "Let's Talk About Entrepreneurship!" On the sidelines of the Global Entrepreneurship Week, organized by the US Embassy in Amman, in partnership with the Queen Rania Center for Entrepreneurship and the Zain Innovation Platform (ZINC). Transferring these experiences to the students of the college by introducing them to the success stories of entrepreneurs of their age represents an important step to support the students of Hijjawi Faculty in their path towards entrepreneurship, refining and embracing their creative ideas until they see the light through the establishment of start-up companies.

### Engineer AlSaadi Participates in SAXEED.ECO Workshop in Algeria

Engineer Mohammed Al Saadi represented Hijjawi faculty for Engineering Technology in SAXEED.ECO workshop held in Algeria. SAXEED.ECO project is funded by DAAD organization in association with University of Mostaghanem Central. The project aims to increase the efficiency and role of the entrepreneurship centers in the countries and universities participating in the training, the workshop included a visit to the research laboratories and factories in the city, as well as seminars on entrepreneurship, projects evaluation and funding.



## Two Faculty Members and Three Students from Hijjawi Faculty for Engineering Technology Participate in the SAXEED.ECO Workshop in Germany



The vice dean of Hijjawi Faculty, Dr. Ahmed M. Koran, the chairperson of the Electrical Power Engineering Department, Dr. Ashraf G. Radaideh, three students from the Civil Engineering Department, Ahmad Shehab, Alhareth Mahmoud, and Sarah Husban, alongside the manager of the Entrepreneurship and Innovation Center of Excellence at Yarmouk University, Dr. Mohammad Ashraf Ottom have participated in the workshop of the DAAD funded project "SAXEED.ECO". The workshop was held in Chemnitz University of Technology in Germany from December 05th to December 09th with participants from Jordan, Algeria, and Germany. Project SAXEED.ECO is being implemented in the Entrepreneurship and Innovation Center of Excellence. As part of the project, a sustainability laboratory on renewable energy/photovoltaic systems will be set up in universities in Jordan (namely Yarmouk University and JUST) and Algeria (University of Mostaghanem). During the workshop the teaching material associated with a practice-oriented technical course on photovoltaic systems were discussed and approved. The participants attended a conference about Micro Air Vehicle Technologies in 2022. Moreover, participants toured the self-organizing systems lab and the robust embedded systems lab at Chemnitz University of Technology.

### Dr. Khader Has Been Selected in the IRB Committee

Dr. Atika Khader, Assistant Professor in the Department of Biomedical Systems and Informatics Engineering has been selected in the Institutional Review Board (IRB) of Yarmouk University for the academic year 2022--2023.





## Civil Engineering Department Participates in a Workshop Entitled "Surveying and Geomatics" in Jadara University

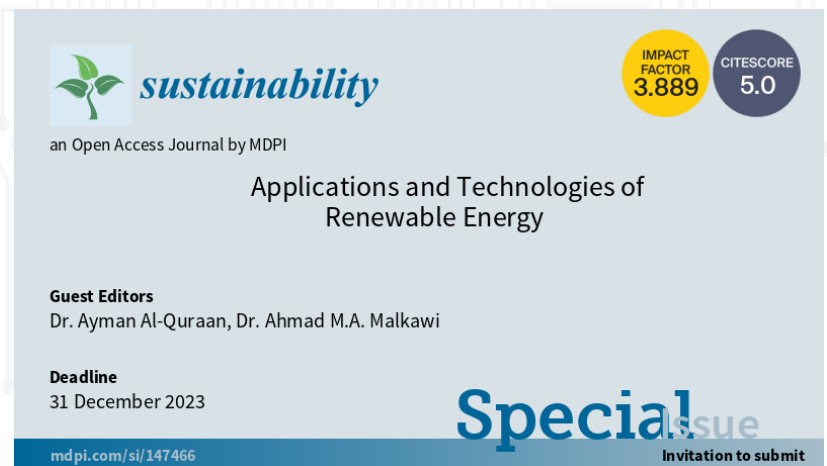


Civil Engineering Department participated in a workshop entitled "surveying and geomatics" held in Jadara University. The workshop was conducted as a part of "Erodite project"; a joint project between Jordanian and European universities funded by the European Union. The workshop was held to train students on surveying equipment acquired by the project and introduce them to the latest technology on surveying equipment and tools. The workshop also included some research work from professors and students on surveying, a speech from His Excellency the President of Jadara University Prof. Dr. Muhammad Talib Obeidat on the project and a word from The Jordanian Engineers Association Engineer Ahmed Samara Al-Zoubi on civil engineering technologies. The closing ceremony included a distribution of participation certificates to professors and students. Yarmouk University was represented by Prof. Hashem Al-Mattarneh, Dr. Musab Abuaddous, Eng. Yazan Ababneh and a group of civil engineering students.



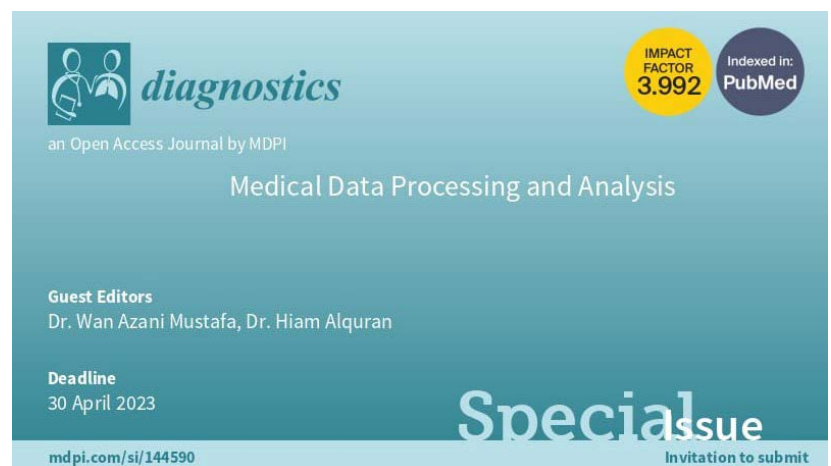
## Two Faculty Members are Guest Editors in Clarivate Analytics Indexed Journals

Dr. Ayman Al-Quraan, Associate Professor in the Department of Electrical Power Engineering, joining the membership of the editorial board of an international journal (Sustainability) belongs to the publisher MDPI and classified within the databases (Scopus and Web of Science (Clarivate Analytics)) and responsible for creating the special issue (Applications and Technologies of Renewable Energy )



Dr. Hiam AlQuran, Associate Professor in the Department of Biomedical Systems and Informatics Engineering has been selected as a guest editor in Diagnostics, a journal classified on the Scopus (Q2) and Clarivate Journal List bases and has an impact factor of (3.992). It specializes in medical diagnosis and is published by the International Publishing House (MDPI).

It is noteworthy that Dr. Hiam has 45 research papers published in many journals and conferences on the use of artificial intelligence, signal processing and medical images in the diagnosis of diseases.





## Civil Engineering Faculty Members Participate in a DFG Water-Nexus Workshop at Yarmouk University

A delegation from the German Research Foundation DFG visited Yarmouk University to see the latest developments made by faculty members at Yarmouk University who are participating in scientific research related to the topic of water - challenges and strategies - for a sustainable future, along with a group of researchers specialized in applied sciences from various German universities.

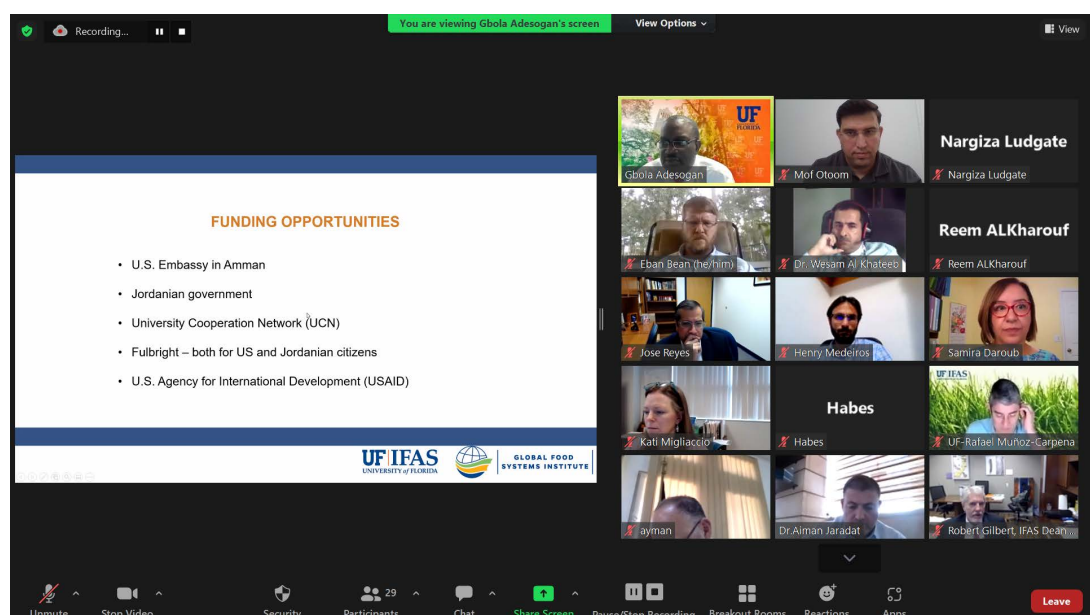
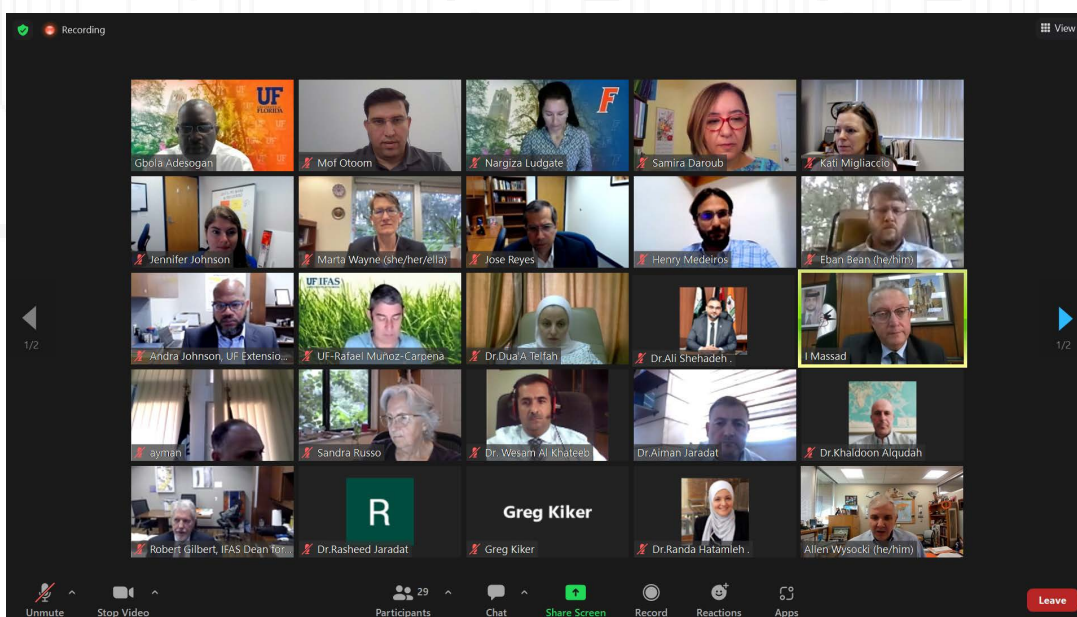
During the meeting, faculty members from the Civil Engineering Department presented the research that had been conducted in in Water nexus research and its effectiveness in finding sustainable solutions to water problems.

During their visit to the university, the delegation toured the various scientific laboratories of the Hijjawi Faculty for Engineering Technology.



## Civil Engineering Faculty Members Participate in a Zoom Meeting with University of Florida

Yarmouk University organized a Zoom meeting with University of Florida, USA, to discuss possible collaboration opportunities in the areas of Water Nexus. President Massad participated in the meeting and presented the university and its strategic plans to enhance its research portfolio, emphasizing the need in Jordan for research that solve water problems. Civil Engineering Faculty participated in this meeting and presented their ideas on these topics.





## Architectural Engineering Faculty Members Participate in Irbid Downtown Development Project

After long discussions, the Central Irbid Development Committee, the Greater Irbid Municipality, and the company executing the Irbid downtown development project completed the work of the third phase, which qualifies to enter the stage of design and executive ideas for the comprehensive plan, with the active participation faculty members in the Architectural Engineering.



## Dr. Aldelgawy Receives a Farewell Embrace from the Civil Engineering Department

Dr. Mohammed Aldelgawy, Assistant Professor in the Civil Engineering Department has completed his work at the Hijjawi Faculty for Engineering Technology, after six years of service. He is back to his home university in Egypt. The department has organized a farewell ceremony for him, appreciating his great assistance in achieving the objectives of the program.



### Dr. Shehadeh Participates in the ADVED 2022 in Turkey

Dr. Ali M. Shehadeh, Assistant Professor in the Civil Engineering Department, participated in the ADVED 2022 (8th International Conference on Advances in Education) held in Istanbul, Turkey. With participants from 37 countries worldwide, the ADVED 2022, as an international conference, succeeded in inviting academics, independent scholars, and researchers from around the world to meet and exchange the latest ideas and discuss issues concerning all fields of Engineering Education and Education of Social Sciences.



### Dr. Alomari Participates in the 8th Jordan International Civil Engineering Conference (Smart Civil Engineering) in Amman

Dr. Ahmad H. Alomari, Associate Professor in the Civil Engineering Department, chaired one of the 8th Jordan International Civil Engineering Conference (Smart Civil Engineering) sessions in Amman, Jordan, between September 27 and 29, 2022. This conference was organized by the Jordan Engineers Association, under the patronage of HRH Princess Sumaya bint El Hassan (President of the Royal Scientific Society), with the participation of distinguished researchers from Jordan and several countries worldwide.





## Hijawi Faculty Member Leads an Internationally Funded Project on Clean Energy

The Greater Irbid Municipality has launched a multi-use public building project that provides clean energy, in partnership with Yarmouk University and the Future Pioneers Association, with support and funding from the European Union. The project coordinator at Yarmouk University is Dr. Madhar Taamneh, Associate Professor of Civil Engineering.

The building's designs include the construction of two basement floors and a first floor, all of which will be used as car parks, in addition to a parking lot for bicycles, while the second floor will include a meeting room equipped to enhance the participation of citizens and stakeholders in planning and decision-making with the municipality, and the project will also include a business incubator for the green circular economy, in addition to a travel and full-service complex for the building's visitors.



### Dr. Masaadeh Participates in the International Staff Week in Turkey

Dr Mahmoud Masaadeh, Assistant Professor in the Computer Engineering Department, participated "The 3rd international Staff week/ Erasmus+ KA107" At Sivas University, Turkey as part of Ersamus+ mobility program.



### Hijjawi Faculty Members Organize a Workshop on Research

Three faculty members, Dr. Amin Jarrah and Dr. Abdul-Mahdi Al-Momani from the Department of Computer Engineering and Dr. Mohammed Al-Zoubi from the Department of Mechanical Engineering organized and presented in the scientific activity entitled "Discussing the research work, its importance and its implications on the personal and public levels to activate the participation of undergraduate students in the research work".





## Dr. Al Khalidi Participates in the BRICK Project Workshop at the German Jordanian University

On the 12th of December 2022, Dr. Marwa Al Khalidi participated in the workshop held and organized via College of Architecture and Design at the German Jordanian University. The workshop event concluded a series of workshops for the project BRICK. The project has been collaboration between Yarmouk University represented by the department of architectural engineering, and the social science department, in addition to TU Berlin represented by the department of urban development. Dr. Marwa has been working in this project along the past two years as a research assistant, when she had participated in a number of workshops held in Jordan, Berlin and Tunisia.

On the 12th December, Dr. Marwa presented one of the workshops. She also talked about her role in general and the role of architectural engineering as multidiscipline in collaboration with other social and technical discipline in producing a key knowledge in achieving a better integration for refugees.



### Dr. Abdel-Razeq Participates in FMEC 2022 in Paris

Dr. Sherif Abdel-Razeq, from the Department of Communications Engineering Department, participated in the activities of the Seventh International Conference on Fog and Mobile Computing (FMEC2022), which was held in Paris, France, with the participation of a number of researchers from different Countries of the world. During his participation, Dr. Abdel-Razeq presented a research paper entitled "Integrating Knowledge Radio into Wireless Communications for Fifth Generation Networks and Beyond Based on Non-orthogonal Access: Network Structure and Design and Research Challenges". The paper also presented in detail the main challenges related to the design and practical implementation of these networks, and discussed some future research directions and open issues.

Dr. Abdel-Razeq also chaired one of the conference sessions, which was specialized in fifth generation wireless communications and Internet of Things applications. FMEC 2022 is a global conference supported by the Institute of Electrical and Electronics Engineers (IEEE).





## IEEE-YU Student Chapter New Mentors



**Dr. Yazan Al-Issa**  
*Counselor*



**Dr. Manal Al-Bzoor**  
*Computer Society*



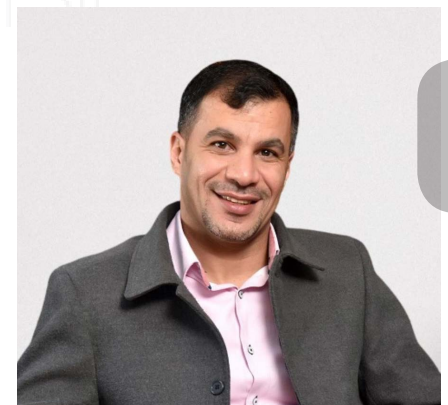
**Dr. Ashraf Radaideh**  
*Power and Energy Society*



**Dr. Ateka Khader**  
*Medicine and Biology Society*



**Prof. Amman AlRousan**  
*Industry Applications Society*



**Dr. Zaid Bataineh**  
*Robotics and Automation Society*



**Dr. Yusra Obeidat**  
*Women in Engineering Society*



**Dr. Sharief Abd-Alrazeq**  
*Communications Society*



**Dr. Ola Taani**  
*IEEE Aerospace and Electronic  
Systems (AESS) Society*

# Hijjawi Faculty for Engineering Technology 2022 Awards

For the first time, Hijjawi Faculty for Engineering Technology has announced and given annual awards for faculty member, administrative staff, and students.

## Best Teaching Award

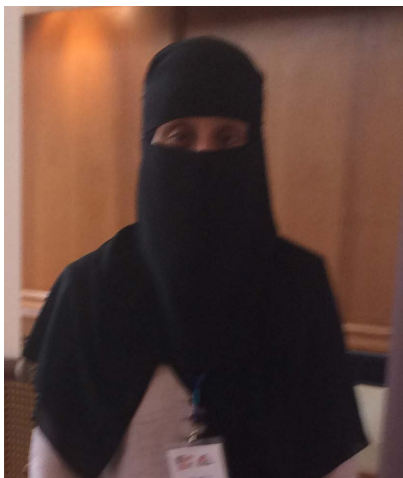


**Dr. Yusra Obeidat**  
Electronics Engineering Dept



**Dr. Mohammad Rawhi Rawashdeh**  
Communication Engineering Dept

## Best Researcher Award



**Dr. Hiam Alquran**  
Biomedical Systems and Informatics  
Engineering Dept



**Eng. Mohammad AlSaadi**  
Electrical Power Engineering Dept



## Best Masters Thesis Award



**Supervisor: Prof. Ahmed AlShorman**  
Communication Engineering Dept



**Student: Eng. Muhannad Qasem AlHifnawi**  
Communication Engineering Dept

## Best Employee Award



**Mrs. Rania Haddad**



**Mr. Motasem Ajlouni**

# Hijjawi Industrial Advisory Board



**Prof. Dr. Labib Khadra**  
Former Minister of Higher Education  
& Scientific Research



**Eng. Mothanna Gharaibeh**  
Former Minister of Digital Economy &  
Entrepreneurship



**Brigadier General Eng. Ayman  
AlBatran**  
CEO, JODDB



**Eng. Bassam Sarhan**  
Chairman, Board of Commissioners  
of the TRC and CEO



**Ms. Samira Alzoubi**  
General Secretary, Ministry of Digital  
Economy & Entrepreneurship



**Eng. Bashar AlTamimi**  
General Director, Irbid District  
Electricity Co. Ltd



**Dr. Raghdha H. AL Faouri**  
President of the Technical and Vocational  
Skills Development Commission



**Eng. Rana Dababneh**  
Chief Corporate Communication &  
Sustainability Officer, Orange Jordan



**Eng. Ayman Hijjawi**  
Chairman, Hijjawi Scientific  
Foundation  
Hijjawi Faculty **Newsletter**





**Mr. Omar Jwaid**  
CEO, Jordan Industrial Estates  
Corporation



**Dr. Nabeel Al-Fayoumi**  
Vice President, Royal Scientific  
Society



**Mr. Abdel Rahim Al Zawahreh**  
General Manager, All Jordan Youth  
Commission



**Dr. Adi Aar**  
Managing Director, Several Brands LLC



**Eng. Omar Ibrahim Ayesh**  
CEO, Electronic Health Solutions



**Eng. Haytham Rawajbeh**  
Representative of the ICT Sector in  
the Jordan Chamber of Commerce



**Eng. Ibrahim Fazaa**  
President, Luminous Jordan Start



**Dr. Jihad Radaideh**  
Chair of Irbid Branch, Jordanian  
Engineers Association

# Happy New Year 2023!

The administration staff of the Hijjawi Faculty for Engineering Tehnology wishes you a Happy New Year, hoping that you will have many blessings in the year 2023!



**Prof. Mwaffaq Ootom**  
Dean



**Dr. Mohammad A. Alzubaidi**  
Vice Dean / International  
Accreditation & Projects



**Dr. Ahmed Koran**  
Vice Dean / Academic & Administrative  
Affairs



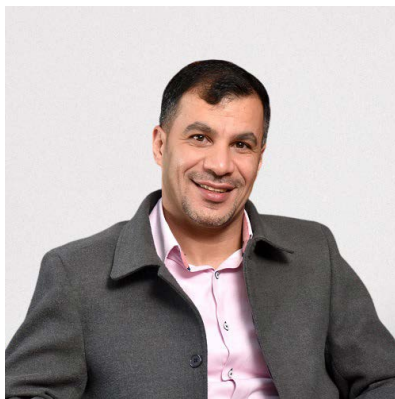
**Dr. Mus'ab AbuAddous**  
Dean Assistant / Students and Alumni Affairs



**Dr. Dua'a Telfah**  
Dean Assistant / Quality Assurance



**Prof. Ammar Al-Rousan**  
Chair, Mechanical Engineering Dept



**Dr. Zaid Albataineh**  
Chair, Electronics Engineering Dept



**Dr. Ahmad Al-Omari**  
Chair, Biomedical Systems and  
Informatics Engineering Dept  
Hijjawi Faculty **Newsletter**





**Dr. Ashraf Radaideh**

Chair, Electric Power Engineering  
Dept



**Dr. Manal Al-Bzoor**

Chair, Computer Engineering Dept



**Dr. Zaid A. Aldeek**

Chair, Architectural Engineering  
Dept



**Dr. Dania Bani Hani**

Chair, Industrial Engineering Dept



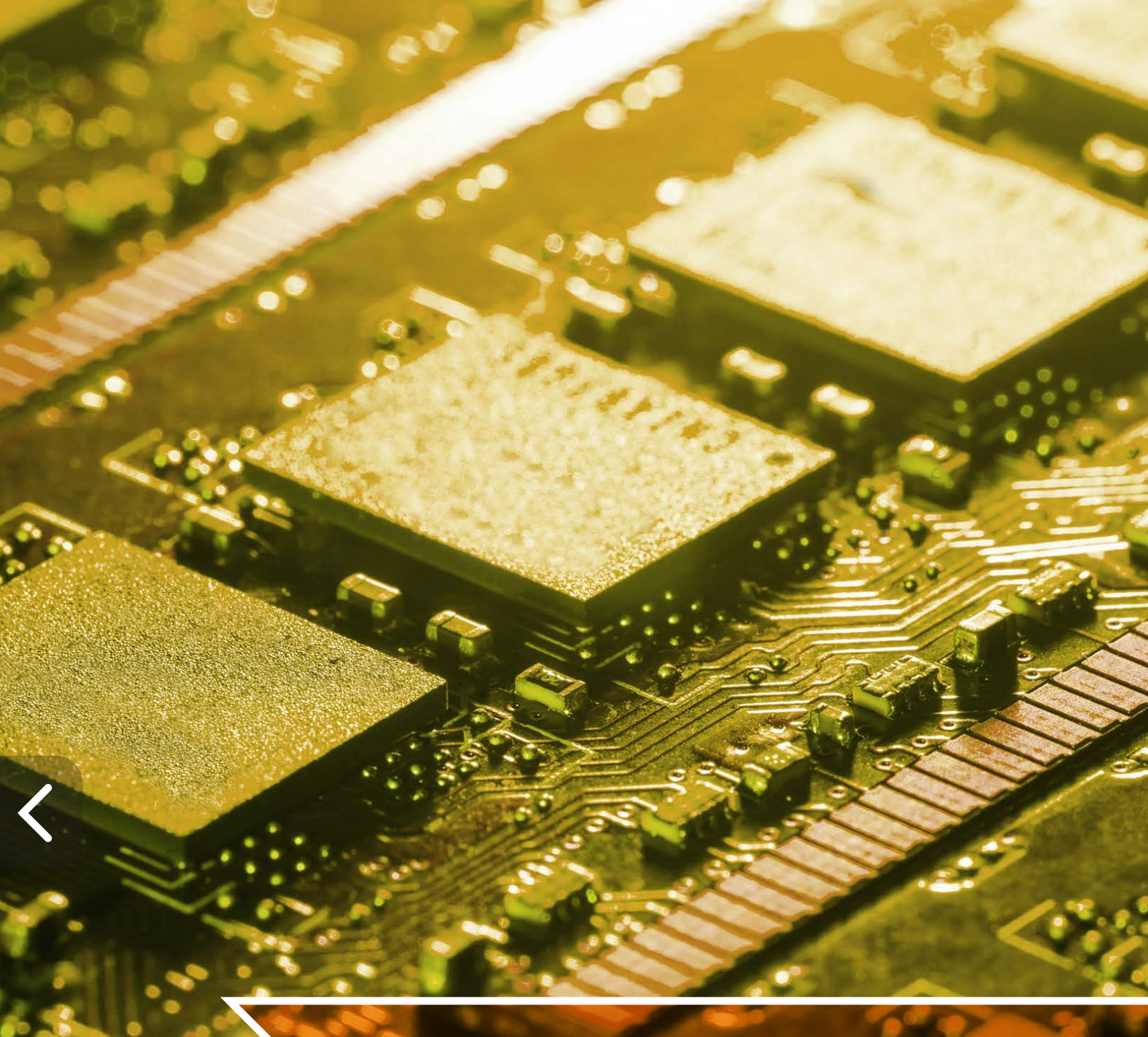
**Dr. Sharief Abdel-Razeq**

Chair, Communication Engineering Dept



**Dr. Ali Shehadeh**

Chair, Civil Engineering Dept



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**Editors:** Dr. Musab Y. Abuaddous, Assistant Dean for Students and Alumni Affairs

Dr. Ahmed Kordan, Vice Dean for Academic and Administrative Affairs

Dr. Mohammad A. Alzubaidi, Vice Dean for International Accreditation and Projects

**Designer:** Prof. Mwaffaq Otoom, Dean

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