



**Yarmouk University**  
Hijjawi Faculty for Engineering Technology

# Hijjawi Faculty Newsletter

Special Issue | August 22<sup>nd</sup> 2022



## Special Issue

### **Yarmouk University Youth Summer Program 2022**

In this issue, we devote an electronic space to portray our Hijjawi Faculty for Engineering Technology's students activities in this summer. It was full of activities, in a short period of 3-week though.

# Students' Voice

By **Abdullah Mohammed Na'amneh**  
**3<sup>rd</sup>-Year Electronics Engineering Student**



## **Exceptional, Modern, and Innovative.**

This is how I describe the Youth Summer Program at Yarmouk University this year.

This program was launched with a promising vision, to enhance the role of the campus in keeping pace with reality, and to provide students with the necessary life skills in various fields (scientific, political, social, health, etc.).

Universities have always needed such programs that direct and invest the energies of young students through various extracurricular activities, for the benefit of

the student, the university, and society.

This program carried within its mission a set of principles, the most important of which are: Promoting the values of dialogue, tolerance and respect for others, strengthening religious and moral values, stimulating the values of citizenship and social responsibility, rejecting extremist ideology, rejecting the spectacle of university violence, empowering youth politically, promoting mental health and awareness against the scourge of drugs, activating students participation in sports activities, strengthening the relationship between students and civil society institutions, and other activities that evolve the personality of the student, and work on integrating and linking him to his community and surroundings effectively.

**I was very happy that I participated in a substantial part of the activities of this program. And I hope to see in the coming semesters new and improved versions of such programs at Yarmouk University.**

## Dean's Message



It is indeed an honor to welcome you again for the fourth time this academic year to the Hijjawi Faculty for Engineering Technology Newsletter. In my previous welcome messages of our newsletter, I presented our achievements. This time is special, as we demonstrate our students' leadership capabilities through presenting their participation in and organization of the Yarmouk University Youth Summer Program 2022.

The opening of this issue was delivered by President Prof. Islam Massad, who calls for mechanisms to implement the royal visions regarding the modernization of the political life in Jordan, with a more focus at the university level. President Massad also pointed out the outcomes of the meeting of His Majesty the King with the public universities presidents.

Then we move on to present our students activities inside and outside the university. Our students

were able to organize several activities under the umbrella of the Yarmouk University Youth Summer Program 2022. In a short period of time, approximately 3 weeks, our students were able to organize a large number and a variety of activities. These activities covered different skills, including political, health, technical and soft skills, etc. The number of activities exceeded ten on-campus activities and more than five off-campus activities. This means that students were enjoying organizing and participation in 2 - 3 activities, each week. What a great achievement!!!. In this issue, we also shed the light on the achievements of our students during the same period.

My self judgement of this experience, which is counted for our university leadership as a credit, is promising. I am confident that future upskilling programs will lead to better results, learning also from this experience to develop better programs.

As I conclude my term as a Dean of the Hijjawi Faculty for Engineering Technology, I would like to thank everybody who contributed to the success of this program. Special thanks goes to my Assistant Dr. Yusra Obeidat, who worked hard with students to make this program successful.

I hope you a pleasant experience as you read this special 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.

**Prof. Mwaffaq Otoom, PhD**

# Featured Article

## A Call for Practical Mechanisms for Political Life Inside Universities



His Majesty King Abdullah II's meeting with the presidents of public universities reflects the royal will for the necessity of leveraging the political life, including the new amendments and what they require on the ground, by involving everyone in the Jordanian party life. His Majesty's invitation was sent to everyone, to participate in the political life -- we, the university presidents, evidently touched the vision of His Majesty the King regarding the expected political life, and the need to involve university students in this life, as a major component of our Jordanian society.

We, at Yarmouk University, completely agree that young people are the most effective group in Jordanian society, and that they are the group on which His Majesty and Jordanians rely for hope for a better future. In the meeting, His Majesty the King touched on the issue of freedom within universities with regard to partisan work, the need for it to be organized, and to have no overlap between the partisan work of youth, in contravention with academic norms, emphasizing that freedom of

expression and partisan work are safeguarded.

During the meeting, university presidents discussed proposed mechanisms, as His Majesty the King and the Crown Prince requested a timetable for implementing this topic, indicating that universities are required to be incubators for a political life that we look forward to in the future. What is required is a simulation of a political life within universities, for what is outside, by encouraging dialogue and accepting the opinion and the other opinion.

We at Yarmouk University picked up the royal signals early, and accordingly, Yarmouk University launched the Summer Youth Program 2022, which contains activities that fill the students' leisure with what is useful and that advances the student's skills and refines his personality. I myself stress the need to restructure the deanships of student affairs in all universities, as it's the body that works with students, in line with the change that we look for. Therefore, we must come up with new regulations for student unions and student clubs, in line with the political, social and economic changes that have affected Jordanian and university society, so that these student unions are representative of all students and not just a limited group of students.

His Majesty the King and the Crown Prince affirmed that they are the guarantor of this new political life in Jordanian society, in a way that meets the higher interest of the Jordanian state. The meeting with His Majesty the King and the Crown Prince was open, as the university presidents presented several challenges and obstacles facing their universities, noting that there will certainly be follow-up on these issues.

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

# Youth Summer Activities

## A Workshop Entitled "Health Practices and their Impact on our Daily Lives"

The Hijjawi Faculty organized a workshop entitled "Health Practices and Their Impact on Our Daily Lives" in cooperation with the student initiative "Ta'mini Behmini", and presented by the pharmacist Reem Al-Othman from the local community.

The workshop focused on raising awareness of the importance of the safety of the body and mind as one of the life priorities that every person aspires to be able to continue his life naturally, away from diseases and pain and their repercussions, which basically requires following a healthy lifestyle based on a healthy diet, avoiding smoking in all its forms, and exercising regularly. The workshop also focused on the importance of every person's awareness of the need to eat all the food that provides the body with its nutritional needs of vitamins, minerals and others without increase or decrease and in a manner that maintains the health and safety of all the organs of his body, pointing to the danger of excessive intake of sugars and fats as well as table salt, largely due to its negative repercussions on the body.



## A Workshop Entitled "Social Security Corporation and its Services"

The Hijjawi Faculty organized a counseling workshop entitled "Social Security and the Services It Provides" in cooperation with the student initiative "Ta'mini Behmini" and presented by Mr. Ali Al-Singlawi, Director of the Appeal Medical Committee Department at the Jordan Social Security Corporation.

The workshop included a detail of the corporation's vision and objectives, its work programs, and the corporation's constant endeavor to protect workers in the public and private sectors by preserving their savings and providing them with pension salaries that guarantee them material and social stability in the post-retirement stage, as well as assisting those who are out of work and non-workers through special programs for social security. It also Provides voluntary subscription services and purchases the necessary subscriptions to obtain a pension, in accordance with the instructions and laws in force in the institution.

The workshop also included details of using the official website of the corporation, which includes all information related to the corporation's work mechanism, programs, laws and instructions currently in force, in addition to electronic services for subscribers, which enable them to obtain clear and detailed answers to all issues related to their subscriptions and pensions within a short period of time without the need to visit the corporation center. All that is required is to accurately register their information and access the electronic services.



## A Workshop Entitled "Creativity, Entrepreneurship and Training Tactics"

The Hijjawi Faculty organized a workshop entitled "Creativity, Entrepreneurship and Training Tactics", which was organized in cooperation with the student initiative "Ibn Baladi", and presented by Dr. Samer Ayasra from Amman Arab University.

The workshop detailed the concept of creativity and its importance and the need to think outside the box, and interactively sharing with the students some creative ideas to solve specific problems.

The speaker explained the concept of entrepreneurship, the basic conditions for entrepreneurial work, how to implement the entrepreneurial idea on the ground, the specifications of the entrepreneur, the problems he might face, and some suggested solutions. He also reviewed local and international examples of pioneering businesses that have become large projects that benefit society and the world, and their makers have achieved great financial gains.

The workshop was ended by encouraging the attendees, especially students, to be creative and think outside the box, and not be afraid to start applying ideas to create suitable job opportunities to ensure a better future.



### A Workshop on "First Aid Basics"

The Hijjawi Faculty organized a workshop entitled "First Aid Basics" in cooperation with the student initiative "Tamini Behmini", and it was presented by specialists from the Solidarity Health Center.

The specialists gave a detailed presentation on some emergency cases, such as complete loss of consciousness and fainting for adults, children and infants, and a practical application on how to conduct first aid to try to save the patient before the ambulance arrived, and the audience was trained on how to examine the case, predict the reasons for its occurrence, and try to save it.



## A Workshop on Studying in the U.S. Universities

A workshop entitled “Studying in America: Application and Admission Requirements” was presented by Dr. Bakr Al-Ayoun from Auburn University in the United States

Dr. Al-Ayoun provided details of applying for graduate studies in America, the conditions for admission and how to prepare for that, as he participated with the students in an interactive dialogue in which he provided answers to their inquiries and questions regarding the topic of the lecture. He explained the importance of applying for the language exams for applying for postgraduate studies, and starting preparation for them in sufficient time so that the student can submit applications for admission in a timely manner. He also presented some problems that the student could face regarding this and the proposed solutions.

Dr. Al-Ayoun also presented the criteria for admission to some American universities in terms of considering student applications, what are the criteria that may increase the chance of student admission and how to work to achieve them, and the importance of each requirement and its role in the application evaluation process, calling for them to start preparing themselves to apply for graduate studies, because of that Benefit to refine the student’s personality and provide him with better opportunities.



## Hijjawi Faculty Students Participate in the Yarmouk Creative Exhibition

Five groups of Hijjawi students participated in distinguished projects in the Yarmouk Creative Exhibition. The participation included projects in electronics, communications, Biomedical, architectural, industrial, and mechanical engineering.



## A Discussion Session on “Youth Empowerment: Volunteer Work and Community Service”

The Hijjawi faculty organized a discussion session on “Youth Empowerment: Volunteer Work and Community Service” with the participation of the General Director of the “We Are All Jordan” Youth Commission, Lawyer Abdul Rahim Al-Zawahra, the Director General of the National Platform for Volunteering and Youth Participation “Nahno”, the National Platform for Youth Volunteering and Participation, Imran Al-Hamoud, and the Director General of “My Governorate” Voluntary Foundation, Eng. Abdullah Bani Hani.

The speakers agreed that the involvement of young people in volunteer work and community service through the various institutions concerned with this field is an important and essential step in developing young people’s skills, refining their personalities, and increasing their self-confidence as effective people who enjoy the positivity needed by others, which means empowering them by providing them with work skills in different circumstances and locations. different as well as giving them the willpower to compete for well-deserved job opportunities.

The speakers emphasized that their great belief in the royal confidence in the youth and the royal support for them was the main motive for their involvement in volunteer work and community service.



## An Interactive Workshop Specialized in “Reducing the Costs of Concrete Structures”

The Hijawi Faculty organized a specialized dialogue workshop entitled: Reducing the costs of reinforced concrete structures “Facts and Challenges”, which was presented by Dr. Ahmed Salama from the Civil Engineering Department in the Faculty,

Dr. Salama gave a detailed explanation of how to reduce the construction costs of reinforced concrete structures, by reducing the self-loads of the origin, whether dead loads or live loads on it, as well as redistributing the design moments of some structural elements in the building with changing or modifying some of the structural details of these elements .

The workshop included dialogue discussions in which the students talked about the extent to which such methods affect the actual cost of the concrete structure, as well as the cost of arming it.



## A Workshop on Advanced Machining Processes

A workshop in advanced machining processes was held by the Hijjawi Faculty For Engineering Technology at the MiniFab lab in the industrial engineering department on July 21st, 2022.

At the beginning of the workshop Prof. Otoom, the dean of the Hijjawi Faculty for Engineering Technology, welcomed the students and indicated the importance of the workshop to introduce the students to the advanced machining processes and become familiar with the engineering applications of such machining processes in the manufacturing field. Prof. Otoom also encouraged the students to learn about the machines and their applications to use the available resources for students' projects and for doing research.

In the workshop, students were oriented to different sets of machines under the supervision of Dr. Bani Hani, The Industrial Engineering Department Head, and the lab technicians at which students were introduced to the new 3D printers regarding their types, raw material used, applications, and limitations among others. Moreover, a small task was also implemented to observe the 3D printers building small scale models.

Students were also introduced to the laser cutting machine, plasma cutting machine, and CNC lathe machine which were purchased as part of the BITTCOIN Erasmus funded project in efforts made to establish a MiniFab lab at the Hijjawi Faculty For Engineering Technology. Students were given information about the different types of the aforementioned machines, working method, raw materials used, cut sizes, cutting precision, cutting speed, applications, precautions for use, safety measures needed, when to use each type of machine and others. Students were also given a chance to observe the different machines while working in small scale tasks.

At the end of the workshop, Prof. Otoom provided insights about the importance of having a MiniFab lab at the Hijjawi Faculty for Engineering Technology. He also highlighted the impact of such labs in equipping the students with the necessary resources to have successful projects and implement any of their entrepreneurial ideas which in turn can help the students to move from product ideations in business models into having product prototypes and commercialization.



## A Discussion Session on “Strengthening the Role of Youth in Political Life”

The Hijjawi Faculty organized a discussion panel entitled “Strengthening the Role of Youth in Political Life”, With the participation of a member of the Jordanian Senate, Madallah Tarawneh, a member of the Royal Committee for the Modernization of the Political System, Dr. Laith Nasraween, and the Director General of the Foundation for my Governorates, Eng. Abdullah Bani Hani.

The speakers emphasized that Jordan, in its new centenary, is entering a different phase at the level of political, parliamentary and party work. They mentioned that the youth are the ones who will motivate the parliamentary work in the next stage, especially since political work is based on the electoral law that regulates this work in general. They also encouraged the students to belong to political parties and noted that there is no longer any fear of belonging to any political party. They pointed out that the Parties Law gave the right to every person who was attacked because of his party affiliation to apply to the judiciary to obtain material and moral compensation.

The speakers stressed the need for young people to play their role in participating in policy-making and the decision-making process, especially since the law guarantees Jordanian youth to be part of the next political stage and system. To chart the political future of this country.

They pointed out that His Majesty, through the fourth discussion paper, said, “Towards democratic empowerment and active citizenship,” which requires us, the Jordanian youth, to work together, find solutions, and be part of the next political stage.

At the end of the discussion panel, the speakers answered questions and inquiries from the audience.





## The Hijjawi Faculty “Scientific and Career Day and Alumni Meeting”

The Hijjawi Faculty organized the activities of the “Scientific and Career Day and Alumni Meeting” under the patronage of the former Minister of Digital Economy and Entrepreneurship, Eng. Muthanna Gharaibeh.

Eng. Gharaibeh, representing the distinguished alumni of the Hijjawi Faculty, spoke in a dialogue session about the importance of students refining their communication and engineering skills, and supporting the academic knowledge they received during their studies at the university with training courses that enhance their knowledge of the accelerated engineering and industrial development taking place in various industrial, engineering and technological sectors, with the aim of Raising the level of their competitiveness in the local and international labor market.

The event included organizing a number of scientific exhibitions for the students’ projects and outstanding research at the undergraduate and graduate levels, in addition to art exhibitions in various fields to enable students to display their artistic and creative works, and a career fair with the participation of a wide range of companies and institutions from the private sector in engineering and technology work.





## Hijjawi Faculty Graduation Ceremony 2021 - 2022

For the first time after the COVID-19 pandemic hit the world, Yarmouk University held physically its graduation ceremony. We leave you with some pictures from our Hijjawi Faculty Graduation Ceremony.



# Off-Campus Activities

## A Visit to the Crown Prince Foundation

The Hijjawi Faculty for Engineering Technology organized a scientific visit to the Crown Prince Foundation in Al-Hussein Business Park for the students of the "Women in Engineering Group" under the supervision of Dr. Yusra Obeidat, the Assistant Dean for Student Affairs and Branch Supervisor

The Foundation's staff presented to the students the various initiatives it launched, which target thousands of young people each year from all governorates of the Kingdom, with the aim of expanding and growing to reach the positive impact of the entire Jordanian youth, taking advantage of the collective passion, new perspectives and the creative energy of our youth.

The Foundation's staff presented the Foundation's endeavors to create a staff of inspiring young individuals capable of facing and overcoming challenges, as these initiatives include: "Hakkek, Nawa, Z, Nahno Platform, TechWorks, Youth Excellence Fund, Qusay, Hear Without Borders, Al Hussein University Technology, I am participating, the initiative of one million Jordanian programmers, the Crown Prince Award for the best application of government services and the footsteps of Al-Hussein.

On the sidelines of the visit, representatives of the various initiatives of the Crown Prince Foundation, such as the "Nahno" platform, the national platform for volunteering and youth participation, and the One Million Jordanian Coders initiative, conducted workshops to inform students about the vision of each initiative, the areas it serves, and the method, to participate and benefit from its various services and activities.

A number of the Foundation's team also made a tour for the students in the TechWorks Factory and introduced them to all types of 3D printers and their various uses, in addition to displaying some of the projects and models that were manufactured.



## A Visit to the Charitable Orphanage "Zakat Khair"

The Hijjawi Faculty for Engineering Technology organized a visit to the charitable orphanage "Zakat Khair" for the students of the student branch, the Women in Engineering group, under the supervision of Dr. Yusra Obeidat, Assistant Dean for Student Affairs and Branch Supervisor.

This event was organized to emphasize the need to activate the role of students in community service and interaction with its various institutions, and to enhance the voluntary aspect because of its great role in refining the student's personality and motivating him to serve community members and feel for others and strive to develop their skills and engage them in scientific and cultural activities.

During this activity, the orphan children participating in the event were distributed into groups and the students taught them some scientific and engineering skills, participated with them in some fun games, and held competitions in an atmosphere of fun.



### A Scientific Trip to Al-Abdali Hospital

The (IEEE/ EMBS) team in the Department of Biomedical Systems Engineering and Informatics, in cooperation with the First National Company for Trade in Medical Devices, organized a scientific trip to Al-Abdali Hospital under the supervision of Dr. Ihsan Massad and Dr. Atika Khedr the branch advisor. Al-Abdali Hospital, a multi-specialty hospital equipped with the latest advanced and advanced technologies, is tasked with providing the highest standards of healthcare while promoting research and health education efforts. The engineers provided a detailed explanation of all types of medical imaging devices. Through it, students were acquainted with the smallest details related to it and the latest technologies used at the present time.

The Director of the BioMedical Devices Department, Eng. Omar Manasra, gave an introductory lecture about the hospital and the most important requirements and skills that are focused on to attract trainees and engineers for employment. The students also asked a series of questions and inquiries, which showed the importance of continuing in such scientific trips, as the trip showed a good degree of awareness among students through their passion and interest in learning about modern technologies in the field of medical devices and learning about training and work opportunities.



### A Student Won Golden Medal in Chess at the Jordanian Universities Championship

Ismail Hammad, from the Electrical Power Engineering Department, won the first place / Golden Medal at the level of the universities in the Kingdom in the individual play of the chess championship for Jordanian universities, which included male and female students.



## The Robotics Team Gives Training to Kids

The Robotics team from The Hijawi Faculty for Engineering Technology participated in giving a training course to students of the summer club. The summer club ran from July 17 to August 17, 2022, was supervised by the Jordanian Engineers Association in Irbid. Children between the ages of 7 and 11 were trained by the robotics team under the direction of Engineer Mohammed Al-Saadi from the Electrical Power Engineering Department and other engineering students from The Hijawi Faculty. The course contains the topics of engineering thinking, problem solving, sensors, programmers, electrical engineering and mechanical engineering applications According to the ages of the summer club students. whereby the team's unique training strategy was hailed by the children's parents as well as the Council of Engineers Association in Irbid

It is noted that the The Hijawi Faculty and the Engineers Association will work together to establish a number of activities and courses that will be very beneficial to engineers and the local community.



## A Student Participates in the National Youth Conference

Shatha Athamneh, from the Communications Engineering Department, participated in the National Youth Conference, which was held in Al-Hassan City in Irbid. Under the patronage of the Prime Minister and the presence of His Excellency the Minister of Youth, Muhammad Al-Nabulsi. Which was launched in the Senate of the year 2018 to be a work project that embodies the directives of His Majesty King Abdullah II Bin Al-Hussein, in volunteering, leadership and investing the energies of youth



Where she participated in a discussion session with the Minister of Youth about decisions, procedures and activities of interest to young people and the Ministry seeks for them, and the need for volunteer work for youth and volunteer campaigns carried out by the Ministry.

## A Student Selected to Represent Jordanian Engineering Students Body in the IEEE Jordan Section

Fatma Zamil, a student in the Biomedical Engineering Department, has recently joined the IEEE Jordan Section as SSR (Section Student Representative) and received the Exemplary awards.



## A Student Graduated from Friedrich-Ebert-Stiftung Advanced Young Leaders Program

Fatma Zamil, a student in the Biomedical Engineering Department, has recently graduated from Friedrich-Ebert-Stiftung Advanced Young Leaders Program, after her graduation from the New Young Leaders Program.

This program is important for building youth's capacity in Advocacy, Political Participation, Leadership, Social Democracy, Human Rights, Climate Change and many other topics.



## Two Students Participated in the IEEE R8 Student & Young Professional Congress 2022 in Tunis

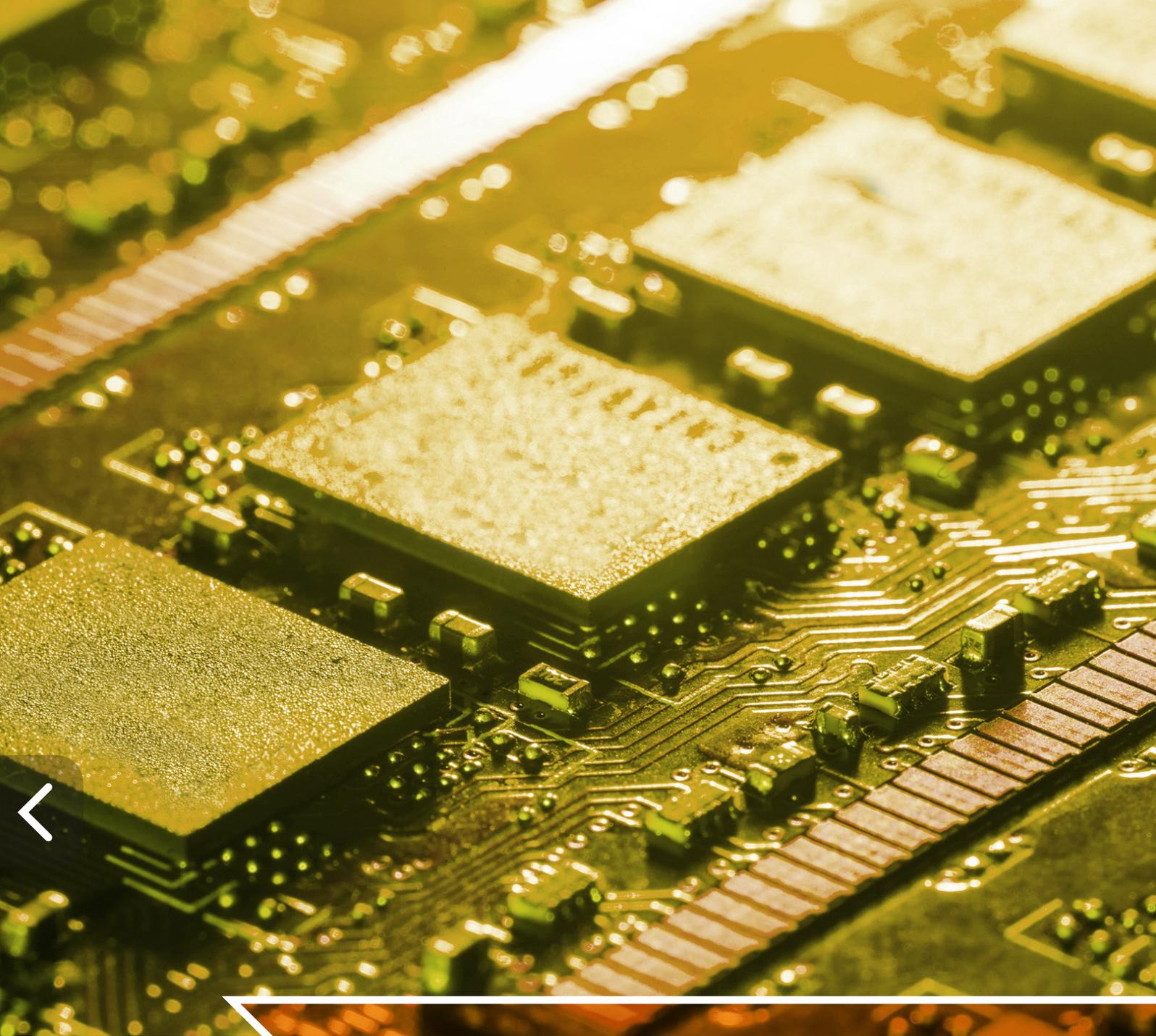
Two students from Hijjawi Faculty: Qusi Mashriqi from The Computer Engineering Department, and Fatma Zamil from the Biomedical Engineering Department participated in the IEEE R8 Student & Young Professional Congress 2022 in Tunis, Tunisia, during the 3rd until the 7th of August.

They represented Jordan and Yarmouk University in the congress that included over 40 countries and nearly 250 participants.

The congress started with the opening ceremony, getting to know more people and building connections, On the following two days, the keynotes and the workshops helped us in IEEE voluntary work, and for sure in the career path.

For the multicultural night, they presented the Jordanian culture through a booth that included food, costume, traditions, songs, and dances.





### **Newsletter Staff:**

**Editor-in-Chief:** Prof. Mwaffaq Otoom, Dean

**Editor:** Dr. Yusra M Obeidat, Assistant Dean for Students and Graduates Affairs

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

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