جامعة الملك سعود
King Saud University

KNOWLEDGE SOCIETY

RESEARCH CHAIRS 78

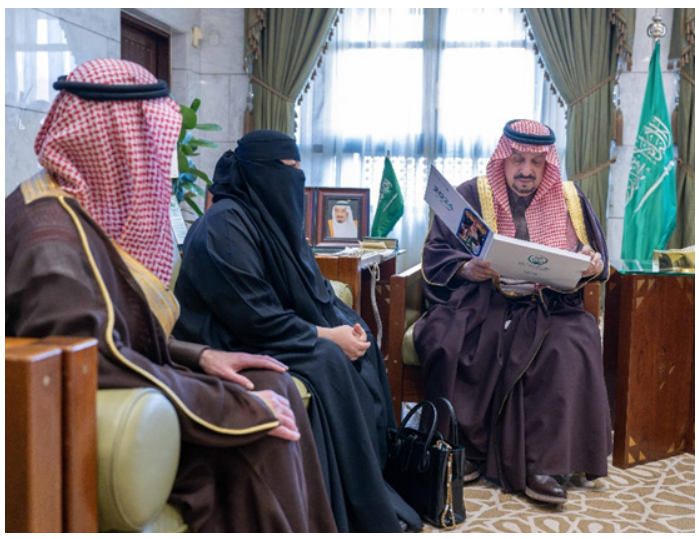
Issue – 13

Periodical Newsletter

Sunday, 29/June/2025

Issued by the Vice Deanship of Research Chairs

Riyadh Governor Sponsors the Signing of the Agreement to Establish Prince Faisal bin Bandar Research Chair for the Elderly

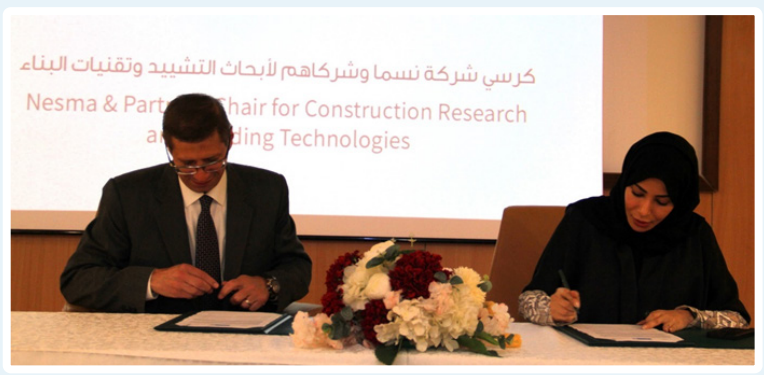


His Royal Highness Prince Faisal bin Bandar bin Abdulaziz, Governor of the Riyadh Region, sponsored the signing of the agreement to establish the Prince Faisal bin Bandar Research Chair for the Elderly, between King Saud University and Kebar Association, during His Highness's reception at his office in Al-Hukm Palace of the Acting President of King Saud University, Dr. Abdullah Al-Salman, and the Chair of the Board of Directors, Ms. Nada Abdullah Al-Bawardi, in the presence of Deputy Vice President for Graduate Studies Scientific Research,Dr. Adham Aleid, the Vice Dean of Scientific Research for Research Chairs, prof. Ghadeer Al-Juraiban, the Dean of the College of Medicine, Dr. Bandar Al-Jafn and the Chair Supervisor, Dr. Saad Al-Saad His Highness commended the joint cooperation between King Saud University and the Association expressing his hope that the research outputs of the Chair would contribute to enhancing the Society's role in the region.

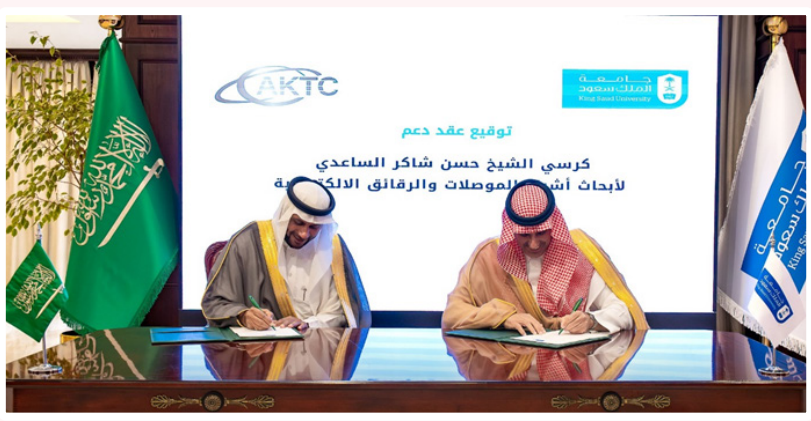
4 Smartphone Addiction and Musculoskeletal Disorders Among University Students

2 participationinthe«AINAInternational Expo»fortheNon-ProfitSector

2 Nesma Chair for Construction and Building Technologies Signs Service Contract with Professor Mohamed Marzouk and Inaugurates Headquarters at College of Engineering

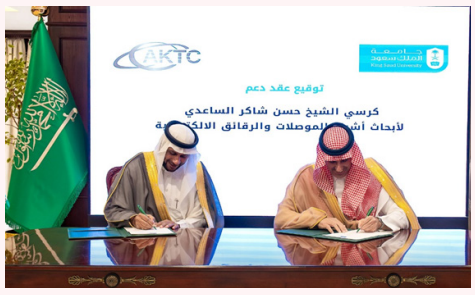


2 University Vice President for Graduate Studies and Scientific Research Signs Agreement to Support Sheikh Hassan bin Shaker Al-Saadi Chair for Semiconductor and Microchip Research



University Vice President for Graduate Studies and Scientific Research Signs Agreement to Support Sheikh Hassan bin Shaker Al-Saadi Chair for Semiconductor and Microchip Research

On behalf of the Acting President of King Saud University, Professor Dr. Abdullah Al-Salman, the Vice President for Graduate Studies and Scientific Research, Professor Dr. Yazid Al-Sheikh, signed the agreement to support Sheikh Hassan bin Shaker Al-Saadi Chair for Semiconductor and Microchip Research.



The signing was attended by Prof. Ghadeer Al-Juraiban, Vice Dean of Scientific Research for Research Chairs, and Dr. Moath Al-Adhbah, the Chair Supervisor, who stated that the chair aims to contribute to technological development, support research and innovation, reduce carbon emissions, qualify national competency, and achieve localization targets in the semiconductor sector—one of the most vital and important technological fields in the digital age.

This chair is part of King Saud University's efforts to support the research and innovation system and enhance the Kingdom's position in the semiconductor research value chain, in alignment with the goals of Saudi Vision 2030 to achieve a diversified and sustainable knowledge-based economy.

participation in the «AINA International Expo» for the Non-Profit Sector

Under the patronage of His Royal Highness the Governor of Riyadh Region, and in the presence of His Excellency the Minister of Human Resources and Social Development, the Research Chair for Online Dialogue and Cultural Communication participated in the activities of the "AINA International Expo" for the non-profit sector, held at Prince Mohammed bin Salman Non-Profit City.

Participation was represented by a joint pavilion with the Chair's supporting organization, Rukn Al-Hiwar Charitable Association, alongside a number of prominent local and international entities in the sector.

The participation was represented in a joint pavilion with the donor of the chair, the Corner of Dialogue Civil Society, along with a number of prominent local and international organizations in the sector. The pavilion witnessed significant turnout from leaders in the non-profit sector, international experts, and visitors, who praised the Chair's outstanding contributions in utilizing emerging technologies to serve the sector's objectives . The attendees highlighted the strategic partnership between King Saud University and Rukn Al-Hiwar Charitable Association in developing innovative applied solutions and opening new frontiers for pioneering scientific research.

The Chair's participation in the "AINA" Expo represents a qualitative step towards enhancing the Kingdom's position as a center for innovation in the non-profit sector, based on a vision centered on harnessing artificial intelligence to serve human and civilizational goals. It also affirms the Chair's commitment to its leading role in building bridges of intellectual and technological dialogue between cultures.

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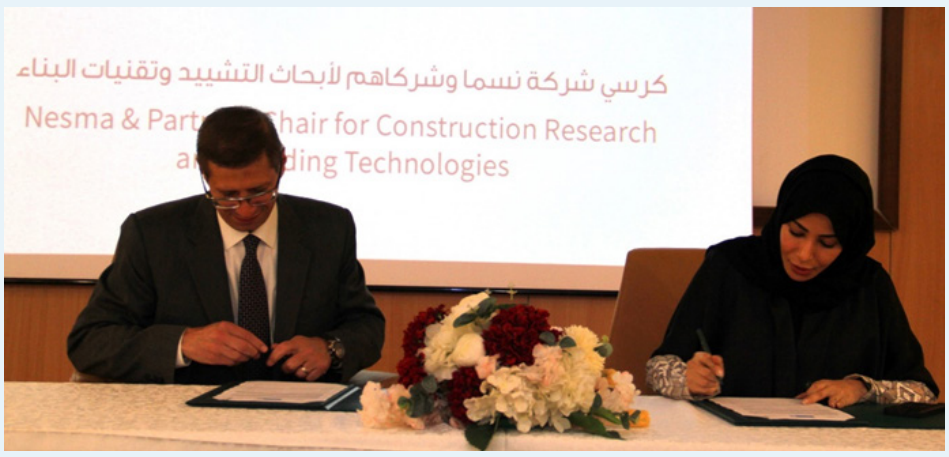
The Chair's participation in the "AINA" expo represents a significant step toward enhancing the Kingdom's position as a leading hub for innovation in the nonprofit sector. This reflects a vision centered on harnessing artificial intelligence to serve human and cultural goals. The participation also highlights the Chair's pioneering role in building bridges of knowledge and technological dialogue between cultures.

Nesma Chair for Construction and Building Technologies Signs Service Contract with Professor Mohamed Marzouk and Inaugurates Headquarters at College of Engineering



Prof. Ghadeer Sulaiman Al-Juraiban, Vice Dean of Scientific Research for Research Chairs at King Saud University, has signed a Chair Service Contract with Professor Mohamad Mahmoud Marzouk, in the presence of representatives from Nesma & Partners Company, and the Chair Supervisor, Dr. Abdulrahman Al-Mahmoud.

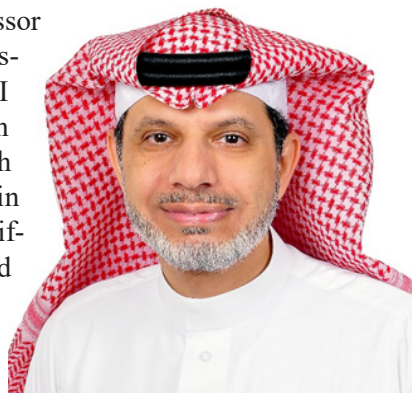
Dr. Al-Mahmoud stated that the Nesma Chair for Construction and Building Technologies aims to strengthen the construction industry by serving as a research hub, fostering stronger ties between industry and academia, and addressing the sponsor's specific needs through applied research.

The contracts includes participation of the prof of the chair in training employees and students, building a scientific network between King Saud University and prestigious local and international research institutions, in addition to documenting research activities through global scientific publications. The signing ceremony was accompanied by the inauguration of the chair's headquarters at the College of Engineering and a meeting of the chair's executive committee."

Workshop on Artificial Intelligence in Scientific Research at King Saud University

The «Artificial Intelligence Laboratory» at the College of Medicine – King Saud University, in collaboration with the «Research Chair for Voice, Swallowing, and Speech Disorders», organized a virtual workshop titled:

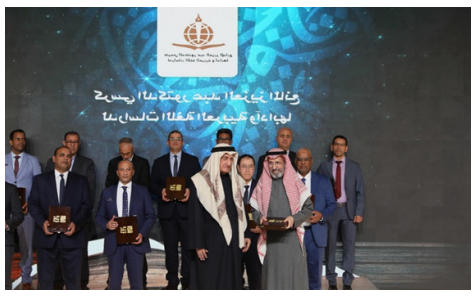
«Artificial Intelligence in Scientific Research: Modern Publishing Policies of Global Publishers.



The workshop was presented by Professor Dr. Khalid bin Hassan Al-Maliki, Professor and Consultant in Speech Therapy, AI Researcher, and Supervisor of the Research Chair for Voice, Swallowing, and Speech Disorders. He discussed the latest trends in using generative AI tools for writing scientific papers, as well as highlighting Approved publishing policies for international publishing houses.

The workshop witnessed notable attendance with over 200 participants from various academic disciplines. It also received significant interaction and praise for its scientific content and organization, reflecting the importance of the topic and the academic community's appreciation of the university's efforts to keep pace with the latest developments in scientific research.

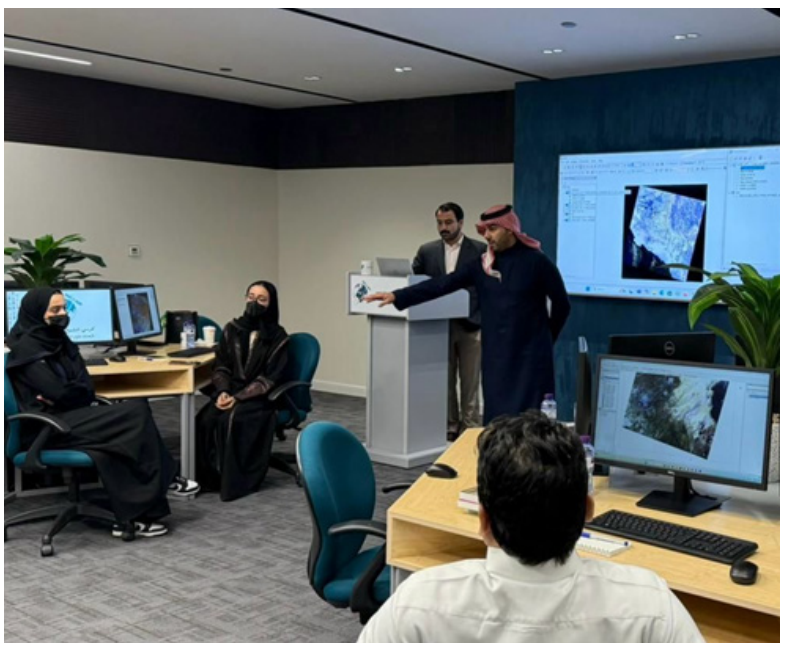
Dr. Al Mana›s chair Wins the Arab Book Award 2025 in Doha, Qatar



The Chair of Prof. Abdulaziz Al-Manea for Arabic Language and Literature Studies won the Arabic Book Award in its second session in 2025 in the category (Achievement - Institutions), an annual award based in Doha that aims to recognize writers and authors whose works have achieved a cognitive addition to human culture, and to encourage publishers in the book industry, to promote and develop Arab publishing, to become able to compete globally. The chair received the Arabic Book Award in the "Achievement" for its total scientific production over 16 years, which includes more than 60 books in various branches of Arabic sciences and interdisciplinary disciplines such as geographical literature, history, and others.

Dr. Al-Mana stated that this award is an appreciation for their efforts in the chair and evidence of their scientific production that had a clear impact in serving the Arabic language and literature. Dr. Al-Mana thanked the successive university presidents, the Vice president of Postgraduate Studies and Scientific Research, the Deanship of Scientific Research, the Vice Deanship of Scientific Research for Research Chairs, and all those who supported the march of the chair and were responsible for achieving this achievement.

Sheikh Abdullah Al-Rasheed Chair for Earth Sciences Remote Sensing Research Organizes Training Program for Saudi Geological Survey Staff

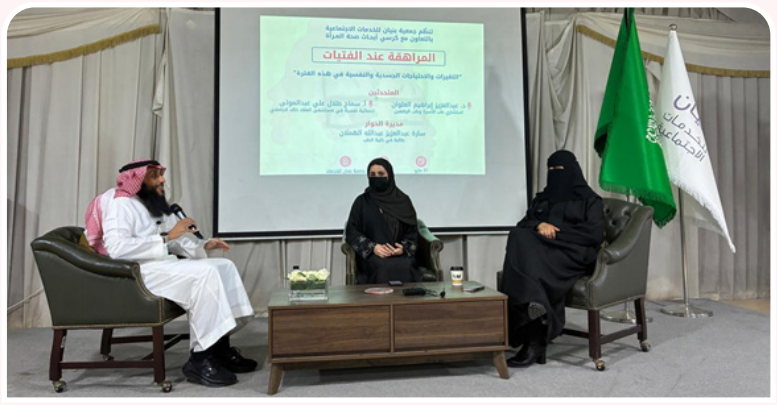


Sheikh Abdullah Al-Rasheed Chair for Earth Sciences and Remote Sensing Research has organized a specialized training program for staff of the Saudi Geological Survey Authority, as part of the Geological Hazards Initiative.

The program, titled: "Utilizing Remote Sensing and Geospatial Information Systems to Assess the Risks of Sabkhas and Sand Dunes", aiming to enhance national cadres and develop the technical skills of the Authority's personnel.

The training program lasted for two weeks and focused on several key areas, including: the use of modern technologies such as remote sensing data from multiple satellites to assess geological hazards; the use of data analysis software such as ENVI; the application of artificial intelligence and machine learning for analyzing data and satellite imagery; and the use of Geographic Information Systems (GIS) software to evaluate and identify major geological hazards in certain regions of the Kingdom.

women's Health Research Chair Holds Awareness Lecture Titled «Adolescence in Girls» at the occasion of International Women's Health Day



In celebration of International Women's Health Day, the Women's Health Research Chair organized an awareness lecture titled "Adolescence in Girls", in collaboration with Bunyan charity for Social Services. The event aimed to highlight the stage of puberty for girls, the physical and psychological changes associated with it, as well as identifying their specific needs during this critical developmental phase.

The session featured contributions from Dr. Abdulaziz Al-Enwan and Ms. Samah Al-Moula, and was moderated by student Sarah Al-Hamlan, with a notable attendance of Chair members and a number of interested professionals and specialists.

This event is part of the Chair's ongoing awareness efforts to promote women's health and enhance community awareness of women's physical and mental health issues across.

WATCH HERE

:A Study by the Rehabilitation Research Chair Reveals

Smartphone Addiction and Musculoskeletal Disorders Among University Students

Smartphone addiction significantly affects the musculoskeletal system, with 79% of young adults aged between 18 and 44 reporting excessive use of mobile phones. Additionally, there is limited data regarding the role of biological markers—such as 5-HT receptors, oxidative stress indicators (TAC, MDA), collagen biomarkers (TIMP-1, TIMP-2), and triglycerides (TG)—in the musculoskeletal effects of smartphone addiction, particularly among university students.

This study aimed to investigate the potential relationship between smartphone addiction levels and certain biological markers related to musculoskeletal injuries in the hands and neck of healthy young university students.

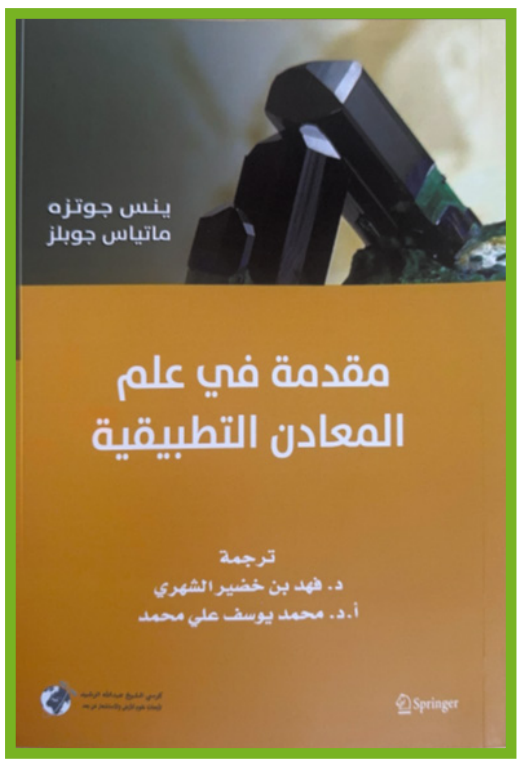
The research team from the Rehabilitation Research Chair conducted a cross-sectional descriptive analytical study involving a random sample of 250 healthy university students aged 17 to 30 years. All participants were classified into two groups based on their smartphone usage duration: non-addicted (1–3 hours daily; 48 participants) and addicted (5 or more hours daily; 12 participants). Variables assessed included smartphone addiction, musculoskeletal discomfort in the neck and hands, obesity-related outcomes, and biomarkers associated with musculoskeletal disorders (MSD).

The results showed a significant link between smartphone addiction and neck pain, hand discomfort, and obesity markers in 64% of participants. Moreover, females demonstrated higher rates and tendencies toward addiction compared to males (62.5% vs. 37.5%). Overall, extended smartphone use scores were positively correlated with obesity, musculoskeletal disorders, and pain. Additionally, addicted students exhibited lower levels of activity in collagen biomarkers (TIMP-1 and TIMP-2) and total antioxidant capacity (TAC), along with higher levels of 5-HT, triglycerides (TG), and malondialdehyde (MDA) compared to non-addicted individuals.

The study concluded that smartphone addiction is positively associated with obesity and musculoskeletal issues—particularly in the neck, shoulders, and hands—among university students. Key biological markers are closely linked to the severity of musculoskeletal disorders in the neck and hands, highlighting the need to raise awareness about the physical and biological risks of excessive smartphone use.

Book Publications:

Introduction to Applied Metallurgy



Sheikh Abdullah Al-Rasheed Research Chair for Earth Sciences and Remote Sensing has released "Introduction to Applied Mineralogy "book, translated by Dr. Fahd bin Khudair Al-Shahri and Prof. Mohamed Youssef Ali Mohamed.

The book highlights the importance of applied mineralogy, a sub-discipline focused on the technical and industrial aspects of minerals and their role, in quality control, product development, and manufacturing technologies. It explains the relationship between metallurgy and engineering sciences, and reviews the stages of material processing from extraction to disposal.

It emphasizes the role of mining as the third pillar of the national economy in line with Saudi Arabia's Vision 2030 for sustainable development, due to the Kingdom's richness in mineral resources. The book also explores broad employment opportunities in fields such as raw material extraction, ceramics, glass, metallurgy, energy, and environmental industries.

The book aimed at undergraduate and graduate students in Earth sciences and related fields; it presents essential topics of applied mineralogy in dedicated chapters. It serves as an important reference to understand the role of minerals in modern industry and technology.

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