

# King Talal School of Business Technology



## Faculty Curriculum Vitae (CV) 2020-2025

### I. Personal and Contact Information

Full Name	Mohammad Khalid Al-Omari
Current Rank	Associate Professor
Faculty Type	<input checked="" type="checkbox"/> Core Faculty <input type="checkbox"/> Non-Core Faculty Non-Core Faculty (Adjunct, Visiting, Practitioner)]
Date of Appointment	15/09/2019
Academic Discipline/Field	Computer Science
Professional Email	m.alomari@psut.edu.jo
ORCID/Scopus ID	ORCID: 0000-0002-5770-6579 SCOPUS: 57509720800

### II. Education and Qualifications

Please list all relevant degrees and professional certifications, starting with the highest degree (Ph.D./DBA).

Degree/Certification	Institution	Country	Year Completed	Academic Discipline
Ph.D./DBA	De Montfort University	UK	2017	Computer Science
Master's	Amman Arab University	Jordan	2009	Management Information Systems
Bachelor's	Jordan University of Science and Technology	Jordan	2006	Computer Information Systems
Professional Certification	Institute of Leadership and Management	USA	2013	Certified Professional Trainer

Professional Certification	Pio-Tech	Jordan	2008	Business Objects Applications Professional
Professional Certification	Oracle University	Jordan	2007	Oracle Certified Associate (OCA)

### III. Teaching and Pedagogical Activities

#### A. Courses Taught (Last 5 years)

Course Name	Program Level (UG/Master's)	Credit Hours	ERS Integration (Y/N)
Business Data Engineering	Master's	3	Y
Information Security	UG	3	Y
Business Applications Programming	UG	3	Y
Management Information Systems	UG	3	Y
Computer Applications in Business	UG	3	Y

#### B. Student Supervision

Year	Student Name	Role Supervisor/ Co-sup	Thesis Title	Status Ongoing/Completed
2025	Dina Ruqti	Supervisor	Performance Analysis of Traditional Machine Learning Techniques and Deep Learning Techniques in Detecting Fake News on Social Media	Completed
2024	Dema Naimi	Co-supervisor	The Influence of Online Behavior and Awareness on Trust in Online Financial Transactions: A Mediation Analysis of Online Fraud Occurrence in Jordan	Completed

### C. Teaching Innovation and Recognition

*Describe any significant new course/program development, use of innovative pedagogical methods (e.g., simulations, blended learning, use of case study method), and list any teaching awards.*

Over the past five years, I have been actively engaged in major program development at the King Talal School of Business Technology, particularly during my tenure as Vice Dean (2021–2023). During this period, I led the Business Analytics study plan development committee, guiding the curriculum design to ensure alignment with current industry demands. This strategic initiative involved integrating modern pedagogical approaches and digital transformation concepts across the school's programs, directly supporting efforts toward international accreditations such as AACSB and EQUIS.

In my current role as Director of the E-learning Center, as well as in my teaching practice, I have championed innovative pedagogical methods. I have developed multiple courses utilizing blended learning models, featuring robust asynchronous learning activities built with H5P tools to enhance student engagement and knowledge retention. Additionally, I have designed and implemented several micro-credential programs offered through Coursera. These programs are fully integrated into the university's curricula and Learning Management System, promoting continuous learning and enabling students to upskill and reskill with high-demand industry competencies.

### IV. Research and Intellectual Contributions (IC)

#### A. Peer Reviewed Journal Publications

*Classify your intellectual contributions (IC) into the three categories: Disciplinary/Basic Scholarship (DS), Applied/Practice-Oriented Scholarship (AS), and Pedagogic Scholarship (PS). ERS (Ethics, Responsibility, and Sustainability)*

IC Type (DS/AS/PS)	Full Citation (Journal, Book, Case Study, etc.)	Publication Date	Journal Indexing/ IF (If Applicable)	ERS Focus (Y/N)
AS	Qutaishat, F., Abushakra, A., Al-Omari, M. (2025). A Student-centric Perspective on Leveraging of the Metaverse in Higher Education. <i>Journal of Information &amp; Knowledge Management</i>	2025	Scopus, ISI, Q2	Y

AS	Al-Omari, M., & Al-Haija, Q. A. (2024). Performance Analysis of Machine Learning-Based Intrusion Detection with Hybrid Feature Selection. <i>Computer Systems Science &amp; Engineering</i> , 48 (6)	2024	Scopus, Q2	N
AS	Al-Omari, M. and Abu Al-Haija, Q. (2024), "Towards Robust IDSs: An Integrated Approach of Hybrid Feature Selection and Machine Learning," <i>Journal of Internet Services and Information Security</i> , vol. 14, no. 2, pp. 47–67	2024	Scopus, Q2	N
AS	Qutaishat, F., Abushakra, A., Anaya, L., Al-Omari, M. (2023). Investigating the Factors Affecting the Intention to Adopt Cloud-Based ERP Systems during the COVID-19 Era: Evidence from Jordan. <i>Business Process Management</i>	2023	Scopus, ISI, Q1	N
AS	M. Al-Omari , F. Qutaishat, M. Rawashdeh, S. H. Alajmani and M. Masud, ""A boosted tree-based predictive model for business analytics,"" <i>Intelligent Automation &amp; Soft Computing</i> , vol. 36, no.1, pp. 515–527, 2023	2023	Scopus, ISI, Q2	N
AS	Alarood, A., Ababneh, N., Al-Khasawneh, M., Rawashdeh, M., Al-Omari, M. (2021). IoTSteg: Ensuring Privacy and Authenticity in Internet of Things Networks using Weighted Pixels Classification based Image Steganography. <i>Cluster Computing</i>	2021	Scopus, ISI, Q1	Y
AS	Al-Omari, M. , Rawashdeh, M., Qutaishat, F. et al. An Intelligent Tree-Based Intrusion Detection Model for Cyber Security. <i>J Netw Syst Manage</i> 29, 20 (2021)	2021	Scopus, ISI, Q1	N

## B. Conference Presentations and Research Grants

Activity	Title/Topic	Funding Body/Conference Name	Year
Conference Presentation	A Proposed Framework to Support Adaptivity in Virtual Learning Environments	The European Conference on Technology in the Classroom 2015, Brighton, United Kingdom	2015
Conference Presentation	E-Learning for Distance Students: A Case Study from a UK Masters Programme	The European Conference on Technology in the Classroom 2015, Brighton, United Kingdom	2015
Book Chapter	Applications of Blockchain Technology for Improving Security in the Internet of Things (IoT)	Blockchain Technology Solutions for the Security of IoT-Based Healthcare Systems	2023

## V. Professional Experience and Relevance

### A. Non-Academic Work Experience

*List significant full-time non-academic employment, especially if relevant to your teaching and research.*

Company/Organization	Title/Role	Start Date	End Date	Key Responsibilities/Achievements
Arab Open University, Jordan	System Analyst	04/2010	09/2014	The development of core systems such as Student Information System, HR and Payroll System.
Arab Open University, Jordan	Database Specialist	07/2008	04/2010	The development of core systems such as Student Information System, HR and Payroll System.
Arab Open University, Jordan	Oracle Developer	07/2006	07/2008	The development of core systems such as Student Information System, HR and Payroll System.

## B. Professional Engagement

Activity	Organization/Client	Role/Nature of Work	Dates (Start-End)
Consultancy	Arab Open University – Jordan Branch	IT Consultant	15/8/2018 - 14/9/2019
Consultancy	Association of Arab Universities, Amman, Jordan	IT Consultant	24/11/2020 - 15/9/2021

## VI. Service and Engagement

*List your service contributions, distinguishing between internal (University/School) and external (Community/Societal) roles.*

Service Type	Committee/Role	Organization/Body	Dates (Start-End)
University/School Service	Director of E-learning Center	Princess Sumaya University for Technology	09/2024 - Present
University/School Service	Interim Dean - KTSBT	Princess Sumaya University for Technology	09/2023 – 10/2023
University/School Service	Vice Dean - KTSBT	Princess Sumaya University for Technology	09/2021 – 09/2023
University/School Service	Member - Curriculum Committee	Princess Sumaya University for Technology	9/2024 - Present
University/School Service	Member - GlobalReach Studio Committee	Princess Sumaya University for Technology	2024 - Present
University/School Service	Head – AACSB Standard 4 committee	Princess Sumaya University for Technology	10/2022 – 9/2023
University/School Service	Member – EQUIS International Accreditation Committee	Princess Sumaya University for Technology	10/2022-9/2023
University/School Service	Head – Students' Violations Committee	Princess Sumaya University for Technology	9/2021 – 9/2023

Reviewer Activity	(Total 19 reviews: 3 in 2025, 7 in 2024, 6 in 2023, 1 in 2022, 2 in 2021)	Annals of Telecommunications, The Journal of Supercomputing, Sustainable Energy Research, Journal of Experimental & Theoretical Artificial Intelligence, Journal of Network and Systems Management	2021-present
Community/Societal Engagement	Symposium Keynote Speaker	Jordan Today Center for Development	9/10/2024
Community/Societal Engagement	Symposium Keynote Speaker	Jordan Today Center for Development	4/6/2024
Community/Societal Engagement	Member	The Digital Innovation Profile Country Review, Ministry of Digital Economy and Entrepreneurship, Jordan	2024 - Present
Community/Societal Engagement	Jury Member	Jubilee School, Amman Jordan	2019/ Present
Community/Societal Engagement	Supervisor	PSUT Youth Mappers, Princess Sumaya University for Technology	9/2022 - Present

## VII. Ethics, Responsibility, and Sustainability (ERS) Contribution

*Please ensure all ERS-related activities are documented here, even if listed elsewhere. CSR (Corporate Social Responsibility)*

Activity Type	Details of Contribution	ERS Theme (e.g., CSR, Climate, Governance)	Year
<b>Research</b>	Publication: Applications of Blockchain Technology for Improving Security in the Internet of Things (IoT)	Security, Ethics	2023
<b>Research</b>	Publication: IoTSteg: Ensuring Privacy and Authenticity in Internet of Things Networks	Privacy, Ethics	2021
<b>Research</b>	Publication: An Intelligent Tree-Based Intrusion Detection Model for Cyber Security	Security, Ethics	2021
<b>Service/Engagement</b>	Member, The Digital Innovation Profile Country Review, Ministry of Digital Economy and Entrepreneurship	Governance, Societal Impact	2024 - Present

<b>Service/Engagement</b>	Symposium Keynote Speaker: Management of Governance, Risk and Compliance under Digitalization	Governance, Risk	2024
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## VIII. International Experience

*List activities that demonstrate international engagement in teaching, research, and professional practice.*

<b>Activity Type</b>	<b>Institution/Location</b>	<b>Role/Purpose</b>	<b>Dates (Start-End)</b>
International Teaching	De Montfort University, UK	Part-Time Lecturer	10/2014 – 10/2016
International Collaboration	Carter, J., and Chiclana, F. (United Kingdom)	Conference Paper Co-author	2015
International Collaboration	Carter, J., and Chiclana, F. (United Kingdom)	Conference Paper author	2015
International Professional Experience	Coursera, Dubai	Workshop Attendance: Coursera Connect Mena 2024	13/11/2024
International Professional Experience	World Learning and the US department of state, Dubai	Workshop Attendance: Empowering Business Schools with Digital Transformation	9/2023
International Professional Experience	World Learning and U.S. Department of State, Dubai	Attendance: Idea Lab for Improving Business and Entrepreneurship Education	20/7/2022 - 23/7/2022
International Professional Experience	University of Anbar, Iraq	Keynote Speaker: The First Virtual International Conference of Sciences	5/2021
International Professional Experience	University of Anbar, Iraq	Keynote speaker: The Scientific workshop on E-learning	12/2020