

King Talal School of Business Technology



Faculty Curriculum Vitae (CV) 2020-2025

I. Personal and Contact Information

Full Name	Wael Mahmoud Ibrahim Aletaiwi
Current Rank	Assistant Professor
Faculty Type	<input checked="" type="checkbox"/> Core Faculty <input type="checkbox"/> Non-Core Faculty Non-Core Faculty (Adjunct, Visiting, Practitioner)]
Date of Appointment	15/9/2024
Academic Discipline/Field	Computer Science
Professional Email	w.etaiwi@psut.edu.jo
ORCID/Scopus ID	ORCID:0000-0003-0421-7971 Scopus:26531155200

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	Princess Sumaya University for Technology	Jordan	2020	Computer Science
Master's	AlBalqaa Applied University	Jordan	2011	Computer Science
Bachelor's	The Hashemite University	Jordan	2007	Computer Information Systems
Professional Certification	Certified Tester Foundation Level (CTFL)	USA	2020	ISTQB® - International Software Testing Qualifications Board
Professional Certification	Approved EFQM Assessor	Jordan	2014	KACE (King Abdullah II Center for Excellence)

Professional Certification	Approved EFQM Mentor	Jordan	2013	KACE (King Abdullah II Center for Excellence)
Professional Certification	Microsoft Certified Technology Specialist, .NET Framework 2.0 Web application	USA	2009	Microsoft

III. Teaching and Pedagogical Activities

A. Courses Taught (Last 5 years)

Course Name	Program Level (UG/Master's)	Credit Hours	ERS Integration (Y/N)
Data Mining for Business Applications	Masters	3	N
Advanced Data Analytics Using Programming	Masters	3	N
Analytics Experience Capstone (Practical project)	Masters	3	Y
Artificial Intelligence	Masters	3	Y
Business Data Engineering	Masters	3	Y
Mobile Business Applications	UG	3	N
Cloud Computing	UG	3	Y
Introduction to AI in Business Applications	UG	3	Y
Computer Applications in Business	UG	3	Y
Advanced Topics in BIT	UG	3	Y
Database Management for Business	UG	3	Y
Database Management for Business Lab	UG	3	Y
Graduation Project	UG	3	Y
Advanced Database Management Systems	UG	3	Y

B. Student Supervision

Year	Student Name	Role Supervisor/ Co-sup	Thesis Title	Status Ongoing/Completed
2022-2023	Daleen Mubaideen	Supervisor	Using Machine Learning Algorithms to Predict the Supply and Demand of Wheat	Completed

2022-2023	Farah Mansour	Supervisor	Utilizing Event-Based Data and Machine Learning to Predict the Completed Gold Price	
2024-present	Marwa AlBawab	Supervisor	Predicting Patient No-Shows at the Jordan University Hospital Using Machine Learning	Ongoing
2024-present	Hala Naser	Supervisor	Evaluating the Ship Traffic Priorities Mechanism Across the Suez Canal and Its Effect on Goods Prices	Ongoing
2024-present	Razan Othman	Supervisor	Utilizing Machine Learning to Predict Bus Rapid Transit Usage in Jordan	Ongoing

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.

My teaching philosophy centers on creating an engaging, interactive, and practice-oriented learning environment where students are not passive recipients but active participants. I firmly believe that students learn best when they can connect theoretical knowledge to real-world applications. Therefore, I focus on delivering content through case studies, practical examples, and hands-on use cases that mirror challenges in the business and technology landscape.

At PSUT, I have developed and taught a wide range of undergraduate and graduate courses, including Artificial Intelligence, Data Mining for Business Applications, Business Data Engineering, Advanced Data Analytics Using Programming, Mobile Business Applications, and Introduction to AI in Business. In all my courses, I make a deliberate effort to connect theory to practice. For example, I brought a humanoid robot into the classroom to deliver part of a lecture on AI and robotics, which not only captured students' attention but also sparked deep discussions on the role of automation in modern business.

I also engage students in real-world competitions and platforms, such as Kaggle, Unilever, FinTech Rally, and Women in Data Science, to expose them to data challenges faced by global companies. Encouraging them to participate in such environments allows them to develop technical skills, teamwork, and self-learning capabilities. These experiences have proven effective in building student confidence and preparing them for the demands of the job market.

My classes are designed to be interactive, with regular in-class exercises, discussions, and applied mini-projects using real datasets from various domains, including healthcare, finance, and logistics. I actively update my teaching materials to reflect emerging trends in artificial intelligence and data analytics, ensuring that my students are exposed to cutting-edge tools and methodologies.

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	Etaiwi, Wael, and Bushra Alhijawi. "Comparative Evaluation of ChatGPT and DeepSeek Across Key NLP Tasks: Strengths, Weaknesses, and Domain-Specific Performance." Array (2025).	2025	Scopus Indexed (Q1)	Y
AS		2025	Scopus Indexed	N
AS	Sahar Idwan, Wael Etaiwi, Hanen Rafaya, Izzeden Matar, A Comprehensive Review of Statistical Variants and Enhancements of SMOTE Oversampling Method, International Journal of Data Science and Analytics, 2025.	2025	Scopus Indexed (Q1) + SSCI	N
AS	Etaiwi, Wael, & Idwan, S. (2025). Traffic management systems: a survey of current solutions and emerging technologies. Journal of Computational Social Science, 8(1), 7.	2025	Scopus Indexed (Q2)	N
AS	Idwan, S., Zubairi, J. A., Haider, S. A., & Etaiwi, Wael. (2024). Reactive Traffic Congestion Control by Using a Hierarchical Graph. Journal of Universal Computer Science (JUCS), 30(4).	2024	Scopus Indexed (Q2) + SSCI	N
AS	Etaiwi, Wael, and Arafat Awajan. "SemanticGraph2Vec: Semantic graph embedding for text representation." Array (2023): 100276.	2023	Scopus Indexed (Q1)	N
AS	Qaqish, Evon, Aseel Aranki, and Wael Etaiwi. "Sentiment analysis and emotion detection of post-COVID educational Tweets: Jordan case." Social Network Analysis and Mining 13.1 (2023): 1-11.	2023	Scopus Indexed (Q2)	Y
AS	Tweissi, Adiy, Wael Al Etaiwi, and Dalia Al Eisawi. "The Accuracy of AI-Based Automatic Proctoring in Online Exams." Electronic Journal of e-Learning 20.4 (2022): 419-435.	2022	Scopus Indexed (Q1)	Y
AS	Abulhaija, Sabreen, Shaymaa Hattab, Ahmad Abdeen, and Wael Etaiwi. "Mobile Applications Rating Performance: A Survey." International Journal of Interactive Mobile Technologies 16.19 (2022).	2022	Scopus Indexed (Q2)	Y

AS	Etaiwi, Wael, and Arafat Awajan. "SemG-TS: Abstractive Arabic Text Summarization Using Semantic Graph Embedding." Mathematics 10.18 (2022): 3225.	2022	Scopus Indexed (Q2)	N
AS	Abulhaija, Sabreen, Shaymaa Hattab, Ahmad Abdeen, and Wael Etaiwi. "Predicting mobile apps performance using machine learning," Journal of System and Management Sciences (JSMS), 6, 12 (2022).	2022	Scopus Indexed (Q3)	Y
AS	Alsaïdi, Hiba, and Wael Etaiwi. "Empirical Evaluation of Machine Learning Classification Algorithms for Detecting COVID-19 Fake News." Int. J. Advance Soft Compu. Appl 14.1 (2022).	2022	Scopus Indexed	Y
AS	Suleiman, Dima, Wael Etaiwi, and Arafat Awajan. "Recurrent Neural Network Techniques: Emphasis on Use in Neural Machine Translation." Informatica 45.7 (2021).	2021	Scopus Indexed (Q3)	N
AS	Etaiwi, Wael, Dima Suleiman, and Arafat Awajan. "Deep Learning-Based Techniques for Sentiment Analysis: A Survey." Informatica 45.7 (2021).	2021	Scopus Indexed (Q3)	N

B. Conference Presentations and Research Grants

Activity	Title/Topic	Funding Body/Conference Name	Year
Conference Presentation	Wael Etaiwi, Lubna Albahar, Graph-Based Feature Selection: A Comprehensive Survey of Methods and Applications, The Proceedings of IntelliSys, 2025.	Intelligent Systems	2025
Conference Presentation	Predicting Students' Performance Using Machine Learning	International Conference on Information Technology (ICIT)	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
Jordan Customs	Developer and System Analyst	29/07/2007	15/9/2020	Oracle, Java, ASP.NET systems developer and system analyst
PDCA Consultation	Senior Digital Transformation Consultant	05/05/2024	15/9/2024	Excellence and Digital Transformation consultant, ISO42001 Implementer, and AI Consultant
King Abdullah II Center for Excellence	Digital Transformation Trainer (Freelancer)	2021	Present	Perform Digital Transformation Training
King Abdullah II Center for Excellence	Organizational Excellence Assessor	2014	Present	Assess Governmental and Private sector entities according to EFQM criteria, and Assess Public universities according to the excellence criteria
King Abdullah II Center for Excellence	Jordan People-Centric Digital Government Program Consultant	15/5/2025	30/9/2025	Validate the World Bank requirements and indicators by the Ministry of Digital and Entrepreneurship

B. Professional Engagement

Activity	Organization/Client	Role/Nature of Work	Dates (Start-End)
Board Membership	King Abdullah II Center for Excellence Academic Council	Member	2025
Board Membership	Al-Hussein Volunteer Award Assessors	Member	2024 + 2025
Board Membership	KACE Assessors Committee	Member	2014 – Present
Board Membership	Jordan Governance National Team	Member	2018-2019

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	Trainer	Excellence in Cyber Security Award	2025
Community/Societal Engagement	Trainer	Digital Government Transformation	2023
Community/Societal Engagement	Member of the judging panel	Jubilee School	2022
Community/Societal Engagement	Trainer and Mentor	The Excellence in Municipal and Community Development Project/ The Youth Excellency Project	2022
Community/Societal Engagement	Assessor	Distinguished University Award	2022
Community/Societal Engagement	Trainer	Digital Transformation Award	2022
University/School Service	Supervisor	PSUT Employee's Appraisal System	2022

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
Teaching	Developed a module on AI in Business Application, including the responsible use and Ethical AI	CSR	2024
Service/Engagement	Member of the School's Sustainability Committee	CSR	2020-2023

VIII. International Experience

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

Activity Type	Institution/Location	Role/Purpose	Dates (Start-End)
International Collaboration	Smart City and IoT Research Group - Fredonia.edu	Research Group Member	2022