

AU FACULTY RESEARCH INTERESTS

Academic Year (2025 - 2026)

14.98%

10.02%

25.00%

TABLE OF CONTENTS

RESEARCH AT THE AUSTRALIAN UNIVERSITY (AU)	01
AU RESEARCH VISION AND MISSION	02
RESEARCH INTERESTS - COLLEGE OF ENGINEERING	
CIVIL ENGINEERING DEPARTMENT	04 - 07
ELECTRICAL ENGINEERING DEPARTMENT	08 - 11
MATHEMATICS AND PHYSICS DEPARTMENT	12
MECHANICAL ENGINEERING DEPARTMENT	13 - 16
PETROLEUM ENGINEERING DEPARTMENT	17 - 19
RESEARCH INTERESTS - COLLEGE OF BUSINESS	
MANAGEMENT DEPARTMENT	21 - 24
MARKETING DEPARTMENT	25
RESEARCH INTERESTS - ENGLISH LANGUAGE PROGRAM	26 - 29
RESEARCH INTERESTS - SCHOOL OF AVIATION	30 - 32
RESEARCH INTERESTS - ADJUNCT PROFESSORS	33

RESEARCH AT THE AUSTRALIAN UNIVERSITY (AU)

Research at AU has undergone a fundamental transformation within the last few years. The University redesigned its research strategy and governance framework to ensure that research with impact becomes a core function and a strategic priority. The University has been focusing on the following research areas: water and environment, energy, materials, mechatronics and automation, learning philosophies and frameworks in higher education, innovation and entrepreneurship, business management and finance, as well as marketing and communication.

The University progressed to establish national and international partnerships to strengthen its research capabilities and enhance knowledge exchange. These partnerships provided the University with access to resources and networks. AU signed agreements with its international partner the Central Queensland University (CQU) in Australia. Currently, faculty members from both institutions are working on joint research projects. AU has considerable common grounds with CQU in terms of areas for research. Faculty are conducting research projects in collaboration with scholars from international universities in USA, Canada, Australia, etc. On the national level, the University broadened its research scope through collaborations with local funding institutions such as Kuwait Foundation for the Advancement of Sciences (KFAS) and industry.

AU implemented an internal grant scheme to fund multidisciplinary research that focuses on key national priority research areas relevant to Kuwait Vision 2035 "New Kuwait". Furthermore, incentive plans were designed and executed to encourage faculty to engage in research and publication. Faculty members at AU have always been involved in conducting research on individual and collaborative basis and they strive to produce graduates that can face the constantly changing and challenging demands of the industry. AU encourages and supports faculty members to publish and disseminate their research work in high impact scientific journals and to present it at international conferences and seminars.

AU has aligned its research and teaching to suit students' development. Senior undergraduate students work on research with faculty members through their research projects, thereby allowing students to experience firsthand the translation of theoretical work into applied research. AU has celebrated the outstanding performance of students who have successfully worked with faculty and published scientific research papers in scientific journals and conference papers.

AU RESEARCH VISION AND MISSION

VISION

Our research vision is to enhance the profile of AU as a higher educational institution by contributing to the pursuit of original research aimed at extending the boundaries of applied knowledge.

MISSION

The AU's research mission is as follows:

- To enhance the research profile of AU locally, regionally, and internationally;
- To create a national and international impact in the field of applied research;
- To establish a research program supportive of the applied teaching model at AU;
- To create interdisciplinary and collaborative research; and
- To sustain strong partnerships with research funding organizations such as Kuwait Foundation for the Advancement of Sciences (KFAS), Kuwait Institute for Scientific Research (KISR), and the industry.

FACULTY RESEARCH INTEREST

AU has diverse, highly qualified faculty members with extensive levels of expertise over a broad range of subject areas as follows:

- College of Engineering
- College of Business
- English Language Program
- School of Aviation
- Adjunct Professors



RESEARCH INTERESTS COLLEGE OF ENGINEERING

Faculty Name	Research Interests
GEOTECHNICAL ENGINEERING	
Dr. Rodaina Aboul Hosn	- Numerical Modelling (Such as Discrete Element Modelling and Finite Element Modelling) - Laboratory and Field Tests - Applications of Advanced Technologies, Artificial Intelligence, & Machine Learning, IoT Systems in Geotechnics
CONSTRUCTION MANAGEMENT	
Dr. Mohamed Salem	- BIM and Digital Twin Applications in the Built Environment. - Smart Cities and Urban Development - Advances of Facilities Management in the Built Environment - Sustainable Construction Practices - Fuzzy Logic and Decision-Making Modelling in Construction
Dr. Ahmed Assad	- Data Analytics and Machine Learning for Construction Engineering and Asset Management - Complex Infrastructure Systems Modelling and Simulation - Adaptive and Hazard Resilient Infrastructure - Risk-Informed Decision-Making - Stochastic Optimization
Dr. Sana Al Azzeh	- Construction Management - Energy Conversion Technologies in Buildings - Environmental Engineering - Thermal Comfort in Buildings
Eng. Mohamad Al-Khiami	- Digitalization of the Construction Industry - The Use of VR/AR in Engineering Education & Construction - Labor and Construction Productivity - Occupational Health & Safety in Construction - Building Information Modelling - Cultural Conflicts and Diversity within International Projects - Sustainable indoor climate & Energy savings

Faculty Name	Research Interests
TRANSPORTATION	
Dr. Taha Ahmed	• Transportation Engineering • Pavement Engineering • Recycled Construction Materials • Sustainable Ideas in Civil/Materials Engineering • Retrofitting and Rehabilitation of Transportation Infrastructures • Full-Scale Structural Testing • Advanced Materials and Innovative Ideas in Civil Engineering
Dr. Ahmad Aiash	• Transport Planning • Road Safety • Data Analysis
STRUCTURAL ENGINEERING	
Dr. Ahmad Saad	• Structural and Bridge Engineering • Sustainable Ideas in Civil/Structural Engineering • Active Control of structures • System-level Experiments on Large-Scale Structures • Design of Elaborated Experimental Setups • Earthquake Engineering and Seismic Design of Structural Components • Computational Structural Modeling • Evaluation of Existing Structures Against Natural and Man-made Hazards • Progressive Collapse Prevention Technique

Faculty Name	Research Interests
Dr. Mohammad Yassin	• Bridge Design and Construction; Post-Earthquake Fire Performance of Structures (PEF) • Seismic Soil Structure Interaction of Bridges (SSSI) • Rehabilitation of Bridges with FRP • Forensic Engineering Analysis • Big Data in Structural Application • Retrofitting and Rehabilitation of Structures Large-Scale Structural Testing
Dr. Rana Lakys	• Materials Engineering • Rehabilitation Techniques • Construction Management • Non-Destructive Testing • Sustainable Materials • Statistical Methods in Engineering
Dr. Reza Soleimanpour	• Structural Health Monitoring and Nondestructive Testing • Structural Dynamics • System Identification • Vibration Based SHM and Vibration Measurement • Smart Structures, Composite Material, Seismic Evaluation of the Structures • Application of Dampers in Buildings
Eng. Faisal Alotaibi	▪ Fiber reinforced polymers ▪ Machine Learning in Structural Engineering ▪ Application of 3D Printing in Low Rise Buildings in Kuwait

Faculty Name	Research Interests
WATER RESOURCES ENGINEERING	
Dr. Masoud Irannezhad	• Atmospheric Circulation-Climate Variability - and Water Cycle interactions • Hydrological Observation and Modelling • Vulnerability & risk assessment of hydro-climate extremes (drought & flood) • Water Security and Sustainable Development Goals • Water security and sustainable development goals • Water quality monitoring, modelling & management • Water supply infrastructures design and modelling • Environmental impact assessment • Water security and sustainable development goals • Geospatial big data analysis and pattern recognition • Hydro-climatological remote sensing and data assimilation
GENERAL	
Ms. Nadya Al-Mousa	• Use of CAD in Various Design Fields • Manual and Computer Assisted Drafting • Space Planning and Ergonomics • Design Process • CAD Curriculum Development in Design Disciplines
Eng. Maram Alfar	• Cybersecurity • 3D printing • Learning Philosophy and Frameworks in Higher Education - Engineering Education • Innovation and Entrepreneurship

Faculty Name	Research Interests
TELECOMMUNICATIONS ENGINEERING	
Professor Isam Zabalawi	• Digital Transformation in Higher Education • AI in Higher Education • Research at the Undergraduate Level • Higher Education and Industry 5.0 • Student Engagement and Institutional Effectiveness • Higher Education Leadership
Dr. Mohamad Farhat	• Electronics and Telecommunication • Microstrip Filters Design • Fiber Optic Sensor • Structural Health Monitoring • Renewable Energy • Engineering Education
Dr. Michel Nahas	• Electronics and Telecommunications • Wireless Communications and Signal Processing • Mobile Networks • Heterogeneous Networks • Green Communications • Renewable Energy • Engineering Education
Dr. Shadan Altouq	• Aerospace Electrification Standards and Certification • Aerospace Electrical Systems and Analysis • Power Systems Protection
Eng. Mohammad Zaki	• Telecommunication and Electronics • Wireless Communication • Data Networks • IOT • E-learning Technology • Sensor Networks • Semiconductors in Renewable Energy
Eng. Hania El Kanj	• Digital Transformation • Communications and Electronics • Renewable Energy • Energy Management and Literacy • Engineering Education • Learning Management Systems

Faculty Name	Research Interests
Eng. Sami Assad	- Electronics and Telecommunications: Wireless Communications and Signal Processing - Mobile Networks - Visible Light Communication - Fiber Optics - Renewable Energy - Project Management
Eng. Reem Akasha	- Wireless Communication - Antennas for Communication - Microwave Engineering - Renewable Energy
Eng. Laila Dallol	- Renewable Energy - Engineering Education - E-Learning Technology - Smart Grid Technologies and Applications
BIOMEDICAL ENGINEERING	
Dr. Arash Mehdizadeh	- Artificial Intelligence - Deep Learning - Data Science - Biomedical Engineering - Computational Biology - Renewable Energy - Building Energy Management - Process Optimization - NEMS/MEMS Technologies - VLSI Systems
Dr. Kais Al-Abdullah	- Biomedical Engineering - Computational Biology - Process Optimization - NEMS/MEMS Technologies - VLSI Systems
SIGNAL PROCESSING	
Dr. Mohammed Abdul-Niby	- Characterization of Implanted Silicon - Renewable Energies, Supercapacitors and new nanomaterials. - Signal Processing - Electronics and Communication - Power Electronics

Faculty Name	Research Interests
Dr. Amin Al Ka'bi	▪ Wireless Communications ▪ Signal Processing ▪ Antenna Design ▪ Renewable Energy ▪ Green Building ▪ Analog and Digital Communications ▪ Programmable Logic Controllers
POWER ENGINEERING	
Dr. Majdi Al Omari	• Power System Analysis • Power System Stability and Control • Power System Planning • Power System Protection • Power Electronics • Electrical Machines and Drives • Electric Machine Design • Renewable Energy • Smart Grid Technology • Energy Planning and Policy • Control Systems • Optimal Control • Nonlinear Dynamics • Linear System Analysis • Learning Management Systems
Dr. Hamzeh Aljarajrah	▪ Power Electronics ▪ Machine Learning ▪ Renewable Energy ▪ Control Systems ▪ Micro-electronics ▪ Artificial Intelligence
CONTROL SYSTEMS	
Eng. Eman Al-Salem	• Nonlinear Control Systems • Stochastic Control

Faculty Name	Research Interests
ARTIFICIAL INTELLIGENCE	
Eng. Khaled AbuJbara	- Machine Learning - Computer Vision - Computational Imaging - Deep Learning - Image Processing - Robotics
Eng. Sami Asaad	- Machine Learning - Neural Networks - Deep Learning - Computer Vision
Eng Asama Hussain	- AI Alignment - Multi-Agent systems - Context Engineering - Edge Computing - Computer Vision - Natural Language processing - AI integrated systems - AI in Higher Education

Faculty Name	Research Interests
Dr. Ahmed Bani-Mustafa	• Application of Statistics and data analysis • Methodological Developments in Applied Statistics • Sampling Techniques, Model Selection Techniques, Modelling Checking, Recursive Estimation and Residuals, and their applications
Dr. Ali Al-Zubi	• Resistive Switching, Electronic properties of Spintronic materials, and predictive quantum theory of Nano-magnets. • Finite temperature effects: phonons, free energies, and phase diagrams of magnetic shape memory alloys. • Spintronics, Spin filters, Magnetic Semiconductors
Dr. Sadeq Damrah	• Financial Modelling and Econometrics • Neural Networks and Data Mining in Managing Financial Risk • Engineering and Mathematics Education • Interdisciplinary Studies
Dr. Marziyeh Nazari	• Development of Optical Fiber-Based Chemical Sensing Technologies • Innovative Strategies for Targeted Drug Delivery Systems • Fabrication and Application of Metal-Organic Framework (MOF) Thin Films • Advanced Techniques for Wastewater Treatment and Pollutant Removal • Biomarker Discovery and Validation in Rare Diseases
Dr. Abedalsalam Abumoise	• Mathematical Physics: Non-Hermitian quantum systems • Operator theory, spectral analysis, Dyson maps • Entropy and entanglement in bipartite systems • Open quantum systems • Matrix Analysis and Operator Theory
Mr. Amin Bilal	• Improving Hearing Aids as Technology Improves • Mathematical Education • Artificial Intelligence
Mr. Ghani Albar Harahap	• Inverse Kinematics for Robotic Manipulator • Numerical Simulation • Machine Learning
Mr. Athbi Aljadi	• Mathematics Education • Basic category theory • Financial mathematics

Faculty Name	Research Interests
THERMOFLUIDIC SCIENCES	
Dr. Ahmad Sedaghat	• Building Energy • Solar Energy • Wind Turbines • Rheology • Nanofluids
Dr. Ehab Bani-Hani	▪ Renewable Energy ▪ Thermal Systems ▪ Environment
Dr. Wisam Al-Saadi	▪ Hybrid Renewable Energy Systems Modelling and Optimization ▪ Computational Fluid Dynamics and Heat Transfer ▪ Heat Transfer Enhancement using Nanoparticles ▪ Renewable Energy and Energy Storage ▪ Magneto-Hydrodynamics (MHD) ▪ Natural Convection Driven Flow
Dr. Hayder Salem	▪ Thermofields ▪ Instrumentation ▪ Mechatronics ▪ Experimental Fluid Mechanics
Eng. Omar Al Rifai	▪ Solar systems ▪ MILD combustion ▪ Thermal systems ▪ Environment
Eng. Abdullah Alawadhi	▪ Renewable Energy ▪ Thermal Systems

Faculty Name	Research Interests
NANOTECHNOLOGY	
Dr. Abeer Al-Enezi	• Micro-, Nano- and Bio-Fluidics • Nanotechnology • Nanotech. Material • Computational Fluid Dynamics and Heat Transfer • Mathematical Modelling in Engineering • Renewable Energy
ENGINEERING DESIGN AND OPTIMIZATION	
Dr. Adel Younis	• Engineering Design and Optimization • Applied and Computational Solid Mechanics • Mechatronics • Energy Harvesting • Manufacturing processes • CAD/CAE/CAM
Dr. Nader Ghareeb	• Design and Control of Smart Structures • Finite Element Analysis and Multi-Body Simulation • Multi-Body Simulation • Blast Simulation • Renewable Energy • Ergonomics
Dr. Raouf Mbarki	• Theoretical and Computational Materials Science • Atomistic Simulations • Flexoelectricity • Nano Scale Piezoelectricity • Size-Dependent Elasticity • Physics of Nanostructures • Nanomaterials
Dr. Majed Al-Sarheed	• Design • Manufacturing • Control System • Entrepreneurship • Project Management

Faculty Name	Research Interests
Dr. Fadi Al-Khatib	• Design and Optimization • FEA • Biomechanics • Vibrations
Dr. Mohamed El Badawy	▪ Dynamical Systems and Control Systems ▪ Solid Mechanics ▪ FE Modeling
Eng. Meryem Kanzari	• Vibration • Rotating Structures: Dynamic and Control • Predictive Control Modelling • Renewable Energy and Energy Storage • Thermal Systems • Heat Transfer • Electric Vehicles
BIOMEDICAL ENGINEERING	
Dr. Afif Gouissem	▪ Multiscale Modeling of Materials ▪ Molecular Dynamics ▪ Biomechanics ▪ Nano-materials

Faculty Name	Research Interests
MATERIAL SCIENCE	
Dr. Zainab Al Hajaj	• Composite Material • Natural Fibers • Mechanical Testing • Damage Mechanics • Heat Transfer
Eng. Omar Yousef	• Nano-Coating • Nanotechnology • Vibration • Heat Transfer • Thermal Systems • Solar Energy

Faculty Name	Research Interests
PRODUCTION ENGINEERING	
Dr. Mohamed Omar	• CFD Modelling and Simulation • IOT/IIOT Application in Oil and Gas Industries • Renewable Energy, wave Energy Conversion • Fouling in Heat Exchanger • Produced Water Treatment Techniques
Dr. Suad Al Radhwan	▪ Refineries and Petrochemical processes and technologies ▪ Renewable Energy ▪ Environmental Management ▪ Environmental & Social Sustainability Goals ▪ O&G Process Hazardous operation & Analysis ▪ Crude Characterization and Heavy Crude Upgrade/Processing ▪ Natural Gas Processing
Eng. Kingsley Amadi	▪ Well completion design and Upstream production processes ▪ Novel System for Geothermal Energy Projects ▪ Machine Learning Application to Geoenergy production
DRILLING ENGINEERING	
Dr. Biltayib Misbah Biltayib	▪ Drilling Engineering and Completion ▪ Wellbore Stability Analysis ▪ Directional Drilling Design and Technologies ▪ Wellbore Hydraulic and Hole Cleaning ▪ Environmental Impact of Oil and Gas Operations and their Remediation Techniques
Dr. Mortadha T. Alsaba	▪ Prevention and Mitigation of Lost Circulation Events. ▪ Laboratory Evaluation of Wellbore Strengthening Techniques ▪ Drilling Fluids Design and Optimization ▪ Environmental Drilling Fluids ▪ Application of Nanoparticles for Drilling Fluids

Faculty Name	Research Interests
Dr. Rida Elgaddafi	- Wellbore Cleanout/ Solid Transport - Wellbore Hydraulic and Drilling/Fracturing Fluid Rheology - Multiphase Phase Flow in Pipes and Annulus - Well Integrity (cement and tubulars degradation) - Nanoparticles Technology and Fibrous Fluid - Produced Water/Wastewater Treatment - Flow Assurance - Data Analytics and Artificial Intelligent Application in Oil and Gas Industry - Sustainable and Clean Energy
Eng. Mufazzal Kabuli	- Drilling Technology - Formation and Evaluation
Eng. Kingsley Amadi	- Drilling System Automation and Digitalization - Eco-Solution to Drilling Fluid Design and Optimization - Directional Drilling, Wellbore Placement, and Survey Management - Well Completion Design and Optimization - Machine Learning Application to Energy and Natural Resources
RESERVOIR ENGINEERING AND SIMULATION	
Dr. Seyed Mehdi Alizadeh	- Reservoir Characterization and Simulation - Digital Rock Physics - EOR Processes - Nanotechnology Applications in Petroleum Industry - Formation Evaluation and Mechanics of Geomaterials - AI Applications in Oil and Gas Industry
WASTEWATER TREATMENT	
Dr. Rana Malhas	- Water and Wastewater Treatment Process - Oil Spill Remediation - Waste Management - Nanotechnology and Nanoparticles - Absorption - Environmental Protection - Agriculture Waste - Heavy Metals Removal

Faculty Name	Research Interests
Dr. Seyed Mehdi Alizadeh	Wastewater Treatment Techniques in Oil and Gas Industry
Dr. Mohamed Omar	Produced Water Treatment
Eng. Fahad Abu Mallouh	- Wastewater Treatment - Oil Refining - Petrochemical Technologies
GEOPHYSICAL APPLICATIONS	
Eng. Mufazzal Kabuli	Unconventional Resources (Shale Gas and Coal Bed Methane)
DECISION AND RISK ANALYSIS	
Dr. Seyed Mehdi Alizadeh	- Economic Analysis of Fossil Resources - Economic Analysis of Renewable Energy Resources
Dr. Jean El Achkar	- Biomass and Biofuels - Bioenergy Resources and Technologies - Anaerobic Digestion and Biogas - Solid and Liquid Waste Treatment and Valorization - Biotechnology and Bioprocessing - Environmental Technology and Innovation
Eng. Khaled Hantoush	- Energy Economics - Mineral Law and Policy - Petroleum Contracts and Fiscal Regimes - Tokenomics Adoption in Petroleum Contracts



RESEARCH INTERESTS COLLEGE OF BUSINESS

Faculty Name	Research Interests
MANAGEMENT	
Dr. Farid Abdallah	• Crisis Management • Digital Transformation in Business • Entrepreneurship • Organizational Behavior • Leadership • Human Resource Management
Prof. Alper Erturk	• Human Resource Management • Human Resource Analytics • Organizational Behaviour • Leadership • Digital Transformation • Business Analytics • Artificial Intelligence in Business
Dr. Wael Dabboussi	• Artificial Intelligence in Business • Innovation and Entrepreneurship • Strategic Management • Business Sustainability • Digital Transformation
Dr. Yamen Nissi	• Digital transformation and its effect on classical business structure • Communication and Innovation in Business Operations and Project Management • Online and Mobile Banking • Digital Business communication and AI in customer relationship management • Autonomous driving and the internet of things (IOT) • Innovation and technology in Supply chain management development
Dr. Jawad Mohamad Chahine	• Sustainability and innovation • Digital Transformation in Business • Legal governance and corporate entities • Contract law and commercial transactions • Intellectual property and innovation • Business Ethics and Corporate Social Responsibility

Faculty Name	Research Interests
Ms. Aleksandra Jovanovic	• Strategic Management • Business Communication • Human Resources Management • Project-Based Learning
Dr. Rawa Al Wadani	▪ Family Businesses ▪ Socioemotional Wealth ▪ Business Sustainability ▪ Mindfulness ▪ Environmental Sustainability ▪ Innovation and Performance ▪ Corporate Social Responsibility ▪ Platform Economy
MANAGEMENT INFORMATION SYSTEM	
Dr. Bodour H. Al Shakhss	▪ Information Seeking Behaviour in Organizations ▪ Marketing Research Competitive Advantage Between Organizations in Kuwait ▪ Artificial Intelligence ▪ Knowledge Management ▪ Building databases for SMES
Ms. Massouma Rahat	▪ Artificial Intelligence (AI) & Machine Learning ▪ Education and Technology

Faculty Name	Research Interests
BANKING, FINANCE & ACCOUNTING	
Dr. Muath AbdelQader	• International Financial Reporting Standards (IFRS) • Corporate Governance • Firm Performance • Corporate Social Responsibility (CSR)
Dr. Steven Telford	• Development Economics • Welfare Economics • Behavioural Economics • Political Economy • Agricultural Economics • Institutional Economics
Dr. Mohamad Atyeh	• Institutional Economics • Stock Market Performance • GCC Economies • AI impact on business performance • Corporate Social Responsibility
Ms. May Khafash	• Economics & Behavioural Economics • Artificial Intelligence (AI) & Machine Learning • Knowledge Management & Leadership
Ms. Dania El Achmar	• Forensic Accounting and Emerging Technologies • Artificial Intelligence in Fraud Risk Management • Cybersecurity Integration in Accounting Systems • Blockchain Applications in Financial Crime Detection • Ethical Challenges in Tech-Driven Forensic Accounting
Ms. Rola Mourdaa	• Macro-Economics • Economic Diversification • Higher Education • Entrepreneurship

Faculty Name	Research Interests
HUMAN RESOURCES	
Dr. Oualid Abidi	• Knowledge Management • Corporate Entrepreneurship • Digital Transformation • Leadership • Human Resource Management
Dr. Mirna Safi	• Knowledge Management • Digital Transformation in Business • Educational Leadership and Innovations • Organizational Behaviour • Human Resource Management
Dr. Sapheya Aftimos	• Human Resource Management • Strategic and International perspectives of HRM • Learning and Education Management • Digital Transformation
Ms. Hamsa Sarhan	• Human Resources Management • Knowledge Management • Human Resources Management • Digital Transformation • AI & its application in Entrepreneurship • Digital entrepreneurship • Digital Entrepreneurial Competences
MARKETING & EVENT MANAGEMENT	
Ms. Marcelle de la Roche	• Consumer Behaviour • Retail Marketing • Artificial Intelligence and Advertising • Gamification • Neuromarketing • Social Media Marketing
Dr. Richard Rutter	• Data Analytics • Digital Marketing • Branding • Social Media • Marketing Innovation and Technology • Artificial Intelligence • Convolutional Neural Networks • Consumer Behaviour

Faculty Name	Research Interests
Dr. Faidon Theofanidis	• Advertising Research • Marketing Research • Consumer Behaviour • Digital Marketing • Competitiveness of Greek and European SMES • European Social and Economic Policies
Dr. Laila El Dabt	• Sports Management • Sports Marketing • Strategic Management • International Marketing
Ms. Fatima Al-Lougman	• Political Marketing • Consumer Behaviour • Neuromarketing • Social Media Marketing • Events and entertainment Marketing



RESEARCH INTERESTS ENGLISH LANGUAGE PROGRAM



RESEARCH INTERESTS

ENGLISH LANGUAGE PROGRAM

Faculty Name	Research Interests
Dr. Abdessattar Mahfoudhi	• First and Second Language Acquisition and Teaching • Language-Based Disabilities • Educational Interventions and Inclusive practices
Dr. Fajer Bin Rashed	• Second Language Teaching • (Early) Literacy Education • Bilingualism • Multiculturalism and Teaching • Social and Emotional Learning (SEL in education)
Mr. Nalin Bahuguna	• Learner Motivation ESL • The Relationship between Learner 'Personal Responsibility' for Learning and Achievement
Ms. Eman Shadouh	• Second Language Acquisition • Sociolinguistics, Attitudes towards ESL, etc.
Ms. Fajer Al Shammari	• Multicultural/Bilingual Education • Emotional Intelligence • SLA and Technology • Cognitive Psychology • Leadership
Ms. Andrea Hingston	• Technology Enhanced EFL Classrooms to Increase Learner Engagement and Motivation
Ms. Suzanne Emmerson	• Backward Curriculum Development • Speaking Fluency
Ms. Rebecca McCloy	• Application of Educational Technology in Second Language Instruction
Ms. Tasneem Hasan	• Language and Culture • Learner Motivation ESL • Second Language Acquisition



RESEARCH INTERESTS

ENGLISH LANGUAGE PROGRAM

Faculty Name	Research Interests
Ms. Seyda Hidimoglu	Diversification-Addressing Diverse Learner Needs
Ms. Arwa Alshaar	- Corpus Linguistics Methods to Analyse Language - SL Learner Motivation Feedback/ Skill Development
Mr. Aleksandar Mitrovski	- Framing Analysis in the fields of Communication and Media - Frame Theory in Education/Language Learning - Critical Discourse Analysis in the fields of Communication and Media
Ms. Lamya Al-Mousa	- Sociolinguistics - Pronunciation (Phonetics) - Culture and Language Acquisition
Ms. Sarah Ashkanani	- ESP (English for Specific Purposes) in ESL/EFL Classrooms - Language Teaching in Different Cultural Contexts
Ms. Hiba Tayara	- Curriculum Development - Teaching Research to Higher Education Standards Students - Training and Coaching - How to design a program to develop any language skill using AI
Ms. Bushra Airoud	- Second Language Teaching - Addressing Students with Learning Difficulties - The Effect of Rapport in the English Classroom - Leadership in Education - Technology in the EFL Classroom
Ms. Donia Alalwani	Curriculum Development



RESEARCH INTERESTS

ENGLISH LANGUAGE PROGRAM

Faculty Name	Research Interests
Mr. Abdullah Samateh	• Linguistics • Teaching English as Foreign Language • Translation Studies
Ms. Dina Torkhani	• Research in the field of English as a Foreign/Second Language • Technology Integration in English Language Teaching and Learning • Reading Difficulties among EFL Learners
Ms. Sara Al Shihab	• Second Language Teaching
Mr. Michael McBride	• Theories of Second Language Acquisition • Strategies for motivating learners • Teaching monolingual learners
Ms. Kawthar Haidar	• Mobile assisted language learning • Second Language Acquisition • Computer-Mediated Collaborative Writing • Second Language Learner Motivation • Teaching Grammar in the ESL/EFL Context

The logo for the AU School of Aviation. It features the letters 'AU' in a large, bold, orange font. To the right of 'AU', the words 'SCHOOL OF' are stacked above the word 'AVIATION' in a white, sans-serif font, all contained within a dark blue rectangular background.

AU SCHOOL OF AVIATION

The title 'RESEARCH INTERESTS SCHOOL OF AVIATION' is written in a bold, orange, sans-serif font. It is centered within a white rectangular box that has dark blue L-shaped corner brackets at the top-left and bottom-right corners.

RESEARCH INTERESTS SCHOOL OF AVIATION

Faculty Name	Research Interests
Prof. Alireza Ahmadi	- Reliability Engineering and System Safety - Maintenance Modelling and Optimization - Climate Change Adaptation - Circular Economy and Product Life Management - Human Cognitive Performance and Error Analysis
Dr. Seyed Alireza Razavi	- Smart Materials & Structures - Smart Composite Materials - Piezoelectric Vibration-Based Sensing – Energy Harvesting - Multifunctional Composites – Energy Storage Applications - Finite Element Analysis (FEA) - Computer-Aided Design (CAD) - Gas Turbine Propulsion – Aeronautical Applications - Flight Simulation – Single-Engine Aircraft
Dr. Pritesh Narayan	- Aircraft Guidance, Navigation and Control - Multi-Criteria Decision Making for resource optimisation. - Digital technologies for enhancement of aviation operations. - Autonomous Unmanned Aerial Systems
Dr. Jean AlAm	- Computational Fluid Dynamics (CFD) - Aerodynamics noise predictions (Fan or propellers, compressor and turbine blades). - RANS and Large eddy simulations (LES, WMLES, WRLES). - Turbulence models - Wind-tunnel Experimental Analysis. - Propulsion systems. - Combustion and heat transfer.
Mr. Khaled Al Bustan	- Airport Ranking and its Effects on Revenue and/or passenger movement - Airline Business Model and its Effect on Profitability - Airport Digital Transformation in the Gulf Region - Economic Impact from Airport Expansion - Airline Business Recovery post-COVID Based on Business Model - US Tariff Impact on OEMs

Faculty Name	Research Interests
Mr. Ali Khlefat	• Computational Fluid Dynamics (CFD) • Fluid Mechanics • Heat Transfer • Porous Material • Photovoltaic Thermal (PVT) • Renewable Energy • Energy Efficiency • Security Management • Reliability Engineering
Mr. Bassam Djedi	• Human Factors & Cognitive Science • Computational Fluid Dynamics (CFD) • Design Adjoint Optimization using WLES, Implicit LES, & Hybrid RANS-LES Models. • Wind-tunnel Experimental Analysis. • Propulsion systems.

Faculty Name	Research Interests
ADJUNCT PROFESSORS	
Dr. Vladimir Simovic	• Digital Entrepreneurship • Digital Entrepreneurial Competences • Digital Marketing • Artificial Intelligence in Business
Dr. Abdallah Shanbleh	• Sustainability • Water and Wastewater • Engineering Education
Dr. Ali Al-Masri	• Renewable Energy • Fuel Cells/Electric Batteries • Structure/Thermal Systems Optimization • Finite Element Analysis
Dr. Ibrahim Deiab	• Metal Cutting, Modelling of Machining processes • Fixture Dynamics, machinability of Difficult-to-Cut materials • Sustainable machining, Environmentally Benign Machining, EFD/EFM and CAD/CAM/CAE



www.au.edu.kw

14.98%

10.02%

25.00%