



Name: Eng. Meryem Kanzari

Rank: Senior Instructor - Mechanical Engineering

Personal Information

Nationality: Tunisian

AU Joining Date: 22 Aug 2019

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Professional Information

Education:	Qualification: Master of science in Mechanical Engineering Major: Vibration and Acoustics College/University: National Institute of Applied Sciences (INSA) – Lyon, France Year: 2009/2010
	Qualification: Bachelor in Mechanical Engineering Major: Instrumentation and Industrial Maintenance College/University: National Institute of Applied Sciences and Technology (INSAT), Tunisia Year: 2008/2009
Specialization:	Industrial Maintenance and Mechanical Engineering
Current Academic Position:	Senior Instructor, Mechanical Engineering
Current Professional Positions:	NA
Previous Administrative Position Held:	Instructor , Mechanical Engineering, Australian University, Kuwait, August 2019 – November 2023.
Previous Academic Positions Held:	1- Research Assistant , Mechanical Engineering, College of Engineering, NPRP grant No. 4 -407 -2 -153: Approach for Integrating Indirect Evaporative Cooling System into Contemporary

	Architecture, Qatar University, Doha – Qatar, April 2015 – September 2018. 2- Research Assistant, Department of Architecture and Urban Planning, College of Engineering, NPRP grant No. 7 - 083 - 2 – 041: Slender, Rotating Structures: Dynamic and Control Qatar University, Doha – Qatar, June 2013 – March 2015.
Fellowships And Honors:	- Professional Certificate in OHSAS 18001:2007- Occupational Health & Safety Management, CPD certified, 2023. - Member in the World Society of Sustainable Energy Technologies WSSET. - Professional Member in the American Society of Mechanical Engineers ASME - Best Paper Award for innovative sustainable Technology, sustainable Building conference Icon and Coventry University, UK, 2013.
Teaching Experience:	- Lectures for Diploma Level, Australian University (AU)- Mechanical Engineering Department: Mechanical Engineering Technology: Ethics and Practices, Applied Physics, Mechanical Engineering workshop I, Thermal Engineering, Mechanical Engineering Materials, Introduction to Electrical Equipment and Components, Mechanical Engineering Workshop II, Engineering Mechanics, Preventive Maintenance Techniques, Energy Management, Engineering Project (PBL), Hydraulic and Pneumatic Systems - Lab and TA sessions for Bachelor Level, Australian University (AU)- Mechanical Engineering Department: Engineering Skills-PBL, Statics & Dynamics, Engineering Fluids.
Industrial And Technical Experience:	- Tunisian Company of Electricity and Gas STEG, <i>Department of Electricity, Gas and Energy Efficiency.</i> ○ Engineer Internship (2003/2004) -Technical district interventions for power transmission system - Tunisian Airline TUNISAIR, Direction Controls and Quality Insurance. ○ Trainee Engineer (2007/2008) -Non-Destructive ultrasound testing for aircraft landing wheels bolts - Qatar University, Qatar Foundation ○ Research Assistant (Sep 2012-2018) - Conduct research through experimental studies, literature reviews, and qualitative studies

	- Interpreting research specifications and developing a work plan that satisfies requirements - Implementing laboratory scale systems - Develop knowledge and skills relating to the latest techniques and applications - Writing proposals and delivering presentations when required - Assisting Lead PI and CO-PI with budget and time schedules
Research Interest:	- Rotating Structures: Dynamic and control - Vibration Monitoring - Non-Destructive Testing - Drilling systems - Heat and mass transfer - Cooling systems - Energy Management - Predictive Control - Renewable Energies - Industrial Maintenance
Research Grants:	NA
Research and Publications including Journal and Books:	- H. Makhamreh, M. Kanzari, M. Trabelsi, "Model Predictive Control of a PUC5-based Dual-Output Electric Vehicle Battery Charger", Sustainability, 2023. - M. Kanzari, "Numerical Study on Heat Pipe Assisted Porous Material for Evaporative Cooling system", Submitted to major indexing services to be published in Open access Edited Book, 2023. - M. Kanzari, I M. Shahin, M Y. Alqaradawi and B. Balachandran, "Drill string nonlinear vibrations: experimental studies and finiteelement analysis Journal of Physics: Conference Series, r. 1075 012010, 2018. - H. Galal A Ibrahim, R. Boukhanouf, M. Kanzari, A. Choorapulakkal and A. Alharbi, "Approach for Integrating Indirect Evaporative Cooling into Contemporary Architecture", Journal of Fundamentals of Renewable Energy and Applications, 2014. - R. Boukhanouf, H. G. Ibrahim, A. Alharbi, and M. Kanzari, "Investigation of an Evaporative Cooler for Buildings in Hot and Dry Climates", Journal of Clean Energy Technologies, 2014. - H. Ibrahim, R. Boukhanouf ,M. Kanzari, Choorapulakkal and A. Alharbi " Approach for Integrating Indirect Evaporative Cooling

	System into Contemporary Architecture”, Journal of Fundamentals of Renewable Energy and Applications, J Fundam Renewable Energy Appl 4:131. doi:10.4172/2090-4541.1000131. - M. Kanzari, R. Boukhanouf, H. G. Ibrahim, “Mathematical modelling of a Sub-Wet Bulb Temperature Evaporative Cooling Using Porous Ceramic materials”, International Journal of Chemical, Nuclear, Metallurgical and Material Engineering, 2013.
Paper Presentations at Professional Conferences:	- M. Kanzari, “Numerical Study on Heat Pipe Assisted Porous Material for Evaporative Cooling system”, International Conference on Advances and Creations in Mechanical Engineering 20-22 December 2022, Loni, India. - M.Y AlQaradawi, M. Kanzari , B. Balachandran , “Parametric Studies on Drill String Dynamics Drill mud damping effects with drive speed variation”, Sixth International Conference on Advances in Civil, Structural and Mechanical Engineering – 28, 29 April 2018, Zurich, Switzerland. - M. Kanzari, M.Y AlQaradawi, B. Balachandran “Experimental Studies on damping of rotor-stator dynamics: Effect of high frequency inclusion and annular fluid”, ASME 2018 International Design Engineering Technical Conferences& Computers and Information in Engineering Conference, 2108, Quebec City, Canada. - M. Kanzari, M.Y AlQaradawi, B. Balachandran, “Effects of Drill Mud and Drive Torque Sinusoidal Excitation on Drill strings Lateral and Torsional Stick-Slip Vibrations”, Qatar Foundation annual research conference, ARC’18. - M. Kanzari, M.Y. AlQaradawi, “Experimental studies with drill string: effects of drill mud”, 9th European Nonlinear Dynamics Conference, Budapest, Hungary, 2017. - M. Kanzari, M.Y AlQaradawi, B. Balachandran, “Laboratory Scale Arrangement for Experimental Studies of Drill-String Motions”, Qatar Foundation annual research conference, ARC’16. - M. Kanzari, I.M. Shahin, M.Y AlQaradawi, B. Balachandran, “ Drill string nonlinear vibrations: experimental studies and finite-element analysis”, Regional Conference On Acoustics And Vibration, Indonesia, IOP Publishing, JOP, 2017. - R. Boukhanouf, A. Alharbi, M. Kanzari and H. G Ibrahim, “Investigation of a Sub-Wet Bulb Temperature Evaporative Cooler

	for Buildings”, Sustainable Building Conference, ICON and Coventry University, Coventry University, UK, 2013. - M. Kanzari, M.C. Zaghdoudi , R. Boukhanouf, and H.G. Ibrahim, “Investigation of a novel porous ceramic evaporative cooling heat pipes system”, International Conference on Mechanics and Energy ICME’2014, Monastir, TUNISIA, 2014. - M. Kanzari, M. C. Zaghdoudi, “Modeling and Experimentation of A Novel Porous Ceramic Evaporative Cooling Heat Pipe system”, 1ere Doctoriale INSAT, Valorisation de la recherche, Tunis, TUNISIA 2015. - M. Kanzari, R. Boukhanouf, H. G. Ibrahim, “Mathematical modelling of a Sub-Wet Bulb Temperature Evaporative Cooling Using Porous Ceramic materials”, International Conference on Sustainable Technologies, DUBAI, United Arab Emirates, 2013. - R. Boukhanouf, H. G. Ibrahim, A. Alharbi and M. Kanzari, “Investigation Of An Evaporative Cooler For Buildings In Hot and Dry Climates”, 4th International Conference on Environmental Engineering and Applications-ICEEA, SINGAPORE, 2013. - N. Hamzaoui, M. Kanzari, “Diagnostic Vibro-Acoustique de défauts d’engrenages : Intégration d’une démarche de perception sonore”, 6èmes Journées d’Etudes Techniques 2010, The International Congress for Applied Mechanics, La mécanique et les matériaux, moteurs du développement durable, Marrakech, May 2010.
College Service including committee Membership:	1- Coordination - Coordination of the following courses: 15FMCE120: Mechanical Engineering Workshop I 15FMCE214: Preventive Maintenance Techniques 15FMCE223: Energy Management 15FMCE110: Mechanical Engineering Technology: Ethics and Practices 15FMCE121: Thermal Engineering 15FMCE213: Engineering Mechanics 2- Graduation Projects - Optimization of Solar PV energy in Kuwait using hybrid PV/T with PCM and heat pipes for cooling and power provision in net- zero energy buildings, 2023-2024. - Heat pipes assisted PCM storage for cooling applications, 2022-2023.

	3- Committee Membership - Labs & Workshop Committee - Students appeal and complaint committee - Quality Management Committee
National Service:	NA
College Committees:	NA