



**Name:** Eng. Meryem Kanzari  
**Rank:** Instructor - Mechanical Engineering

## Personal Information

**Nationality:** Tunisian  
**AU Joining Date:** 22 Aug 2019  
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## Professional Information

<b>Education:</b>	<p><b>Qualification:</b> Master of science in Mechanical Engineering <b>Major:</b> Vibration and Acoustics <b>College/University:</b> National Institute of Applied Sciences (INSA) – Lyon, France <b>Year:</b> 2009/2010</p> <p><b>Qualification:</b> Bachelor in Mechanical Engineering <b>Major:</b> Instrumentation and Industrial Maintenance <b>College/University:</b> National Institute of Applied Sciences and Technology (INSAT), Tunisia <b>Year:</b> 2008/2009</p>
<b>Specialization:</b>	Industrial and Mechanical Engineering
<b>Current Academic Position:</b>	Instructor - Mechanical Engineering
<b>Current Professional Positions:</b>	NA
<b>Previous Administrative Position Held:</b>	NA
<b>Previous Academic Positions Held:</b>	Research Assistant, Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar, 2012 –2018.
<b>Fellowships And Honors:</b>	ICON Best paper for innovative sustainable Technology, sustainable Building conference 2013, Icon and Coventry University, UK.

<p><b>Teaching Experience:</b></p>	<p>Australian University (AU)- <i>Mechanical Engineering Instructor</i> (2019-Onward)</p> <p><b><u>Courses Taught</u></b></p> <ul style="list-style-type: none"> <li>- <i>Diploma level:</i> Engineering Materials, Introduction to electrical equipment and components, Mechanical Engineering Technology Ethics and Practices, Mechanical Engineering Workshop I, Mechanical Engineering Workshop II, Engineering Fluids and Applications, Preventive Maintenance Techniques, Engineering Mechanics, Engineering skills- Project Based Learning, Thermal Engineering, applied physics, Project Planning.</li> <li>- <i>Degree level:</i> Engineering skills- Project Based Learning lab, Engineering fluids lab, Statistics and dynamics lab</li> </ul>
<p><b>Industrial And Technical Experience:</b></p>	<ul style="list-style-type: none"> <li>- Tunisian Company of Electricity and Gas STEG, <i>Department of Electricity, Gas and Energy Efficiency.</i> <b>Engineer Internship (2003/2004)</b> <ul style="list-style-type: none"> <li>• Technical district interventions for power transmission system</li> </ul> </li> <li>- Tunisian Airline TUNISAIR, Direction Controls and Quality Insurance. <b>Trainee Engineer (2007/2008)</b> <ul style="list-style-type: none"> <li>• Non-Destructive ultrasound testing for aircraft landing wheels bolts</li> </ul> </li> <li>- Qatar University, Qatar Foundation <b>Research Assistant (Sep 2012-2018)</b> <ul style="list-style-type: none"> <li>• Conduct research through experimental studies, literature reviews, and qualitative studies</li> <li>• Interpreting research specifications and developing a work plan that satisfies requirements</li> <li>• Implementing laboratory scale systems</li> <li>• Develop knowledge and skills relating to the latest techniques and applications</li> <li>• Writing proposals and delivering presentations when required</li> <li>• Assisting Lead PI and CO-PI with budget and time schedules</li> </ul> </li> </ul>
<p><b>Research Interest:</b></p>	<ul style="list-style-type: none"> <li>- Rotating Structures: Dynamic and control</li> <li>- Vibration Monitoring</li> <li>- Nondestructive testing</li> <li>- Drilling systems</li> <li>- Heat and mass transfer</li> <li>- Cooling systems</li> </ul>

<p><b>Research Grants:</b></p>	<p><i>Funded Projects from Qatar National Research Fund (QNRF) - Member of Qatar Foundation (QF):</i></p> <ul style="list-style-type: none"> <li>• <i>NPRP grant No. 4 -407 -2 -153: Approach for Integrating Indirect Evaporative Cooling System into Contemporary Architecture (2012-2015)</i></li> </ul> <p><i>NPRP grant No. 7 - 083 - 2 – 041: Slender, Rotating Structures: Dynamic and Control (2015-2018)</i></p>
<p><b>Research and Publications including Journal and Books:</b></p>	<ul style="list-style-type: none"> <li>- <b>M. Kanzari</b>, 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.</li> <li>- H. Galal A Ibrahim, R. Boukhanouf, <b>M. Kanzari</b>, A. Choorapulakkal and A. Alharbi, “Approach For Integrating Indirect Evaporative Cooling into Contemporary Architecture”, Journal of Fundamentals of Renewable Energy and Applications, 2014.</li> <li>- R. Boukhanouf, H. G. Ibrahim, A. Alharbi, and <b>M. Kanzari</b>, “Investigation of an Evaporative Cooler for Buildings in Hot and Dry Climates”, Journal of Clean Energy Technologies, 2014.</li> <li>- H. Ibrahim, R. Boukhanouf ,<b>M. Kanzari</b>, 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.</li> <li>- <b>M. Kanzari</b>, M.Y AlQaradawi, B. Balachandran, “Stator-Flexible Rotor Contact Interactions: Experimental Studies”, Acta Mechanica Scinica.</li> </ul>
<p><b>Paper Presentations at Professional Conferences:</b></p>	<ul style="list-style-type: none"> <li>- M.Y AlQaradawi, <b>M. Kanzari</b> , 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.</li> <li>- <b>M. Kanzari</b>, 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&amp; Computers and Information in Engineering Conference, 2108, Quebec City, Canada.</li> <li>- <b>M. Kanzari</b>, M.Y AlQaradawi, B. Balachandran, “Effects of Drill Mud and Drive Torque Sinusoidal Excitation on Drillstrings Lateral and Torsional Stick-Slip Vibrations”, Qatar Foundation annual research conference, ARC’18.</li> <li>- <b>M. Kanzari</b>, M.Y AlQaradawi, B. Balachandran, “Laboratory Scale Arrangement for Experimental Studies of Drill-String Motions”, Qatar Foundation annual research conference, ARC’16.</li> <li>- <b>M. Kanzari</b>, M.Y. AlQaradawi, “Experimental studies with drill string: effects of drill mud”, 9th European Nonlinear Dynamics Conference, Budapest, Hungary, 2017.</li> <li>- <b>M. Kanzari</b>, 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</li> </ul>

	<ul style="list-style-type: none"> <li>- R. Boukhanouf, A. Alharbi, <b>M. Kanzari</b> and H. G Ibrahim, “Investigation of a Sub-Wet Bulb Temperature Evaporative Cooler for Buildings”, Sustainable Building Conference 2013, ICON and Coventry University, Coventry University, UK.</li> <li>- 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.</li> <li>- <b>M. Kanzari</b>, 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.</li> <li>- <b>M. Kanzari</b>, 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.</li> <li>- R. Boukhanouf, H. G. Ibrahim, A. Alharbi and <b>M. Kanzari</b>, “Investigation Of An Evaporative Cooler For Buildings In Hot and Dry Climates”, 4th International Conference on Environmental Engineering and Applications-ICEEA, SINGAPORE, 2013.</li> <li>- N. Hamzaoui, <b>M. Kanzari</b>, “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</li> </ul>
<b>University Service including committee Membership:</b>	Member of Students appeal and complaint committee
<b>National Service:</b>	NA
<b>University Committees:</b>	NA