

Academic Curriculum Vitae



Personal Information:

Full Name: Shireen Othman Muhammad
Academic Title: Lecturer
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Education:

Bachelor of Science- BSc; Mechanical Engineering Department - Salahaddin University Erbil 2005.

Master of Science MSc; Mechanical Engineering Department- Kharkov Polytechnic University- Ukraine 2009.

2009. Awarded Master of Science with honor in the field of Hydraulic and Pneumatic machines.

Engineering Doctor of philosophy PhD; Mechanical Engineering Department - Salahaddin University Erbil 2020.

Awarded PhD degree in Applied Mechanics for working in the field of Fluid Flexible Matrix Composite tubes as vibration absorbers.

Employment:

- Assistant Engineer at Mechanical department/Salahaddin university 2006.
- Assistant lecturer in Mechanical department/Salahaddin university 2010.
- Lecturer in Mechanical department/Salahaddin university 2020.

Qualifications

- Teaching qualifications: over 13 years teaching undergraduate students in Mechanical engineering department-Salahaddin university-ERBIL.
- IT qualifications: Well qualified in working with AutoCAD, Matlab, MathCAD, Ansys, GraphPad Prism PLC and DASyLab Programs.

- Language qualifications : Kudish (native), Arabic (native), English (equivalent to ILETS 6), Turkish(very good), Russian (excellent)

Teaching experience:

- undergraduate
 - Composed and developed curriculum of theory of vibrations for the 3rd grade students at the mechanical engineering department 2019 - currently.
 - Developed curriculum and taught of Fundamentals of Programming for 2nd grade student of Mechanical Engineering Department – Salahaddin University 2009 - currently.
 - Taught of Mechanical Engineering Design with Prof. Dr. Safeen for 4th grade students of Mechanical Engineering Department – Salahaddin University 2009 -2014.
 - Developed curriculum and taught of Mechanical Engineering Design for 4th grade students of Mechanical Engineering Department – Salahaddin University currently.
 - Developed curriculum and taught of Control engineering for 4th grade student of Mechanical Engineering Department – Salahaddin University 2012 -2014.
 - Established a modern control laboratory for the Mechanical engineering department in 2013.
- post graduate
 - Developed curriculum and taught of Industrial automation for higher Diploma student of Mechanical Engineering Department – Salahaddin University 2020.
 - Supervised a master student working on composite laminated plates for armour applications 2021-2023.
 - Control lab supervision, 2013-2020
 - Vibration lab. Supervision 2019-present.
 - Computer lab supervision 2010-present.

Research and publications

Publications:

1. Muhammad Sh. O. . Седач, ВВ (2009)Исследование динамики типового пневмопривода с применением видеосъемки, Восточно-Европейский журнал передовых технологий, issue,5, vol:2.
2. Safeen Yassen Qassab, Hussein Ali Sultan, Shirin Othman Mohammad (2013) Modal analysis of Pneumatic two Finger Robotic hand by Finite Element Analysis and Experimental Testing, International Journal of Engineering & Technology IJET-IJENS, issue 13, vol:3.
3. Hussien Ali Sultan , Shireen O. Muhammad (2014) Development of electronic-type finger force measuring system and evaluation of its characteristics on investigated pneumatically actuated two fingered encompassing gripper, International Academy of Engineering and Science, issue 2, vol:3.

4. Shiren Othman Mohammad, Nazhad A. Hussain (2019), Damping Improvement of a Cantilever Beam using Two Patches of Fluidic Flexible Matrix Compositetubes, International journal of Mechanical and Production Engineering research and development, issue 9, vol:5.
5. Shiren Othman Mohammad, Nazhad A. Hussain (2019) New Model for Passive Vibration Control of Cantilever Beams Using Two Patches of Fluidic Flexible Matrix Composite Tubes, Journal of University of Babylon for Engineering Sciences, issue 4, vol:27.
6. Shireen O. muhammad, Nazhad A. Hussain, (2021), Modifications on F2 MC tubes as passive tunable vibration absorbers, Smart Materials and Structures.
7. Ahmed N. Uwayed , Khaldoon F. Brethee , Shiren O. Muhammad (2023) Improved vibration based damage detection in laminated composite plate structures under free and forced modal analysis, European Journal of Mechanics - A/Solids . Vol: 100, July–August 2023.
8. Hozan Abdul-Jabar Othman, Shireen Othman Muhammad (2023), Parametric investigations on composite sandwich plates with honeycomb core, Qalaai Zanist Journal.

Conferences and courses attended

- DAAD Certificate of Training on DASyLab and LABView Programs for data acquisition at the mechanical engineering department - Salahaddin University during the period of Oct 30 - Nov 2, 2010.

Funding and academic awards

- List any bursaries, scholarships, travel grants or other sources of funding that you were awarded for research projects or to attend meetings or conferences.

Professional memberships

- Member in engineering Sandicate.

Professional Social Network Accounts:

- <https://scholar.google.com/citations?user=MFfjeNEAAAAJ&hl=ar>
- <https://www.researchgate.net/profile/Shirin-Muhammad>
- <https://www.linkedin.com/feed/>
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