Curriculum Vitae

Date: 1/1/2025

Personal Information: -

Name : Abdelhalim M. Ziqan

Social Status: Married

Place of residence: Tulkarm, West-Bank, Palestine.

E-mail: abdelhalim.ziqan@aauj.edu ; ziqanhalim@gmail.com

Mobile No.: 0599293796.

Qualifications: -

2005 – 2008: Ph. D in Mathematics (Applied Functional Analysis) , University of Jordan

1987 – 1990: Master Degree in Mathematics, Middle East Technical University -Turkey

1982 – 1986: B. Sc. in Mathematics, Yarmouk University-Jordan

Experience:

- 1/90 – 8/2004 Ministry of Education
- 2002 –2005, 2008-2012 Instructor, Al-Quds Open University, Tulkarm Educational Area, Palestine..
- 9/2004- 9/2005 instructor, The Arab American University, Palestine.
- 9/2008- 6/2016, Assistant Prof., The Arab American University, Palestine.
- 7/2016-recent – Assiociated Prof., The Arab American University, Palestine.

Published Articles:

1. Abdelhlim Ziqn, Sabreen Ibrahim, Mohammad Marabeh and Ammar Qariyah, Fully fuzzy linear systems with trapezoidal and hexagonal numbers, Granular comuting journal, April 2021.
2. Abdelhalim M. Ziqan, Sawsan Armiti and Iyad Suwan, Solving three-dimensional Volterra integral equation by the reduced differential transform method, International Journal of Applied Mathematical Research, April 2016, 5(2):103 DOI: 10.14419/ijamr.v5i2.5988.
3. Abdelhalim M. Ziqan, A. F. Qasrawi, Abdulftah H. Mohammad and N. M. Gasanly, Thermally assisted variable range hopping in Tl4S3Se crystal, *Bulletin of Material Science*, Vol. 38, No. 3, June 2015, pp. 593–598.
4. A.F.Qasrawi, AbdelhalimM.Ziqan, SuhaKh.Jazzar and N.M.Gasanly, Photon assisted hopping conduction mechanism inTl2SSe crystals, Physica B, Vol. 458, 1 Feb. 2015, pp. 149-154.
5. Iyad Suwan, Anan Hussein, Abdelhalim Ziqan and Mahmoud Al-Manasra, A General Technique for Converting $\boldsymbol{n}\times\boldsymbol{n}$ Systems of Linear Ordinary Differential Equations with Constant Coefficients to a Single High Order Equation, Nonlinear Analysis and Differential Equations, Vol. 2, 2014, no. 4, 145 - 154
6. Abdelhalim M. Ziqan, A Certain Inverse Problem and Tensor Product of Banach Spaces, Advances in Theoretical and Applied Mathematics, Volume 9, Number 1 (2014), pp.19-23.
7. Iyad A. Suwan, Metqqal G. Daraghmeh and Abdelhalim M. Ziqan, Analytical Solution of the Frenet-Serret Systems of Circular Motion Bodies, Applied Mathematical Sciences, Vol. 7, No. 143 (2013), pp. 7143-7150.
8. Iyad A. Suwan and Abdelhalim M. Ziqan, A General Technique for Solving 2x2 and Systems of High Order Differential Equations with Constant Coefficients, Global Journal of Pure and Applied Mathematics, Vol. 9, Number 5(2013), pp. 519-527.
9. Abdelhalim M. Ziqan, Atomic Solution For Higher Order DegenerateAbstract Cauchy Problem, Advances in Theoretical and Applied Mathematics, Volume 8, Number 3 (2013), pp. 203–208.
10. Abdelhalim Zaiqan and Ragheb Yassen, On the Division Algorithm for Polynomials, Global Journal of Pure and Applied Mathematics, Vol. 8, Number 4(2012), pp. 371-377.
11. Saed F. Mallak, Mohammad Mara'Beh and Abdelhalim Zaiqan, Further Particular Classes of Ergodic Finite FuzzyMarkov Chains, Volume 6, Number 2 (2011), pp. 269-281.
12. Saed F. Mallak, Mohammad Mara'Beh and Abdelhalim Zaiqan, A Particular Class of Ergodic Finite Fuzzy Markov Chains, Advances in Fuzzy Mathematics, Volume 6, Number 2 (2011), pp. 253-268.
13. A.M. Ziqan, M.Al Horani, R. Khalil, Tensor Product and Non-homogeneous Degenerate Abstract Cauchy Problem, 2010, International Journal of Applied Mathematics, Vol. 23, No. 1, pp 137-158.
14. A.M. Ziqan, M.Al Horani, R. Khalil, Tensor Product and Homogeneous Degenerate Abstract Cauchy Problem, 2010, Journal of Applied Functional Analysis, Vol. 5, No. 1, pp 121-138.

Teaching Experience

- Undergraduate level : Fundamentals of Mathematics, Ordinary Differential Equations, Partial Differential Equations, Real Analysis, Topology, Engineering Mathemtics 2 and Discrete mathematics.

- Graduate Level: Real Analysis, Functional Analysis, Advance Partial Differential Equations, Integral Equations.

Conferrences

1. Abdelhalim Zaiqan and Ragheb Yassen, A Generalized Synthetic Division, Third Palestinan conference in modern trends of Mathematics and Physics, PPU-Hebron, Palestine 16/7/2012-18/7/2012.

Committees

1. Member of the Organizing Committee for the day of mathematics/Reviewer, which was held in the Arab American University, 2009
2. Member of the national Palestinian mathematical Olympiad committee, 2012
3. Member of the evaluation committee for the plans of the courses: Real Analysis and Mathematical Analysis/ Al Quds Open University- Palestine, 2012.

Thesis Supervision

1. Haar Wavelet Method for Nonlinear Integral Equations
2. The Bivariate Shifted Legendre Functions for Nonlinear Volterra Integral Equation
3. Inverse Integrating Factor Method of Planar Autonomous Polynomial Di_erential Systems
4. Local Fractional Fourier Series Method for Solving Local Fractional Fredholm Integral Equation, 2016
5. Ranking Between Exponential K -Trapezoidal- Triangular Fuzzy Numbers, 2015
6. Numerical Method for solving Volterra Integral Equations, 2015
7. Analysis and Simulation of Variable Range Hopping Parameters under Photo-excitation, 2014
8. Numerical simulation and analysis of current conduction mechanism functions in solids, 2014.
9. The Degenerate Homogeneous Abstract Cauchy Problem, 2013
10. Finite Fuzzy Markov Chains, 2011