

# *Abdelhalim Ziqan*

## *Curriculum Vitae*

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### *Personal Information:*

Residence: Tulkarm, West-Bank, Palestine.

E-mail: [abdelhalim.ziqan@aauj.edu](mailto:abdelhalim.ziqan@aauj.edu); [ziqanhalim@gmail.com](mailto:ziqanhalim@gmail.com)

Mobile No.: 0599293796.



### *Qualifications:*

**2005 – 2008:** Ph. D in Mathematics, University of Jordan.

**Thesis Title:** Tensor Product Technique for Solving Degenerate Abstract Cauchy Problem .

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

**Thesis Title:** Explicit Class Field Theory for Rational Function Fields.

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

### *Employment and Experience:*

**6/2016 – Now:** Associated prof. of Mathematics; The Arab American University.

**2008 – 2012:** Instructor, Al-Quds Open University, Tulkarm Educational Area.

**9/2004- 9/2005:** Instructor, The Arab American University.

**2002 –2005:** Instructor, Al-Quds Open University, Tulkarm Educational Area.

**1/90 – 8/2004:** Ministry of Education .

### *Published Articles*

1. 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, 5 (2) (2016) 103-106; doi: 10.14419/ijamr.v5i2.5988.
2. Abdelhalim M. Ziqan, A. F. Qasrawi, Abdulfatah H. Mohammad and N. M. Gasanly, Thermally assisted variable range hopping in Tl<sub>4</sub>S<sub>3</sub>Se crystal, *Bulletin of Material Science*, Vol. 38, No. 3, June 2015, pp. 593–598.
  3. A. F. Qasrawi, Abdelhalim M. Ziqan, SuhaKh Jazzar and N. M. Gasanly, Photon assisted hopping conduction mechanism in Tl<sub>2</sub>S<sub>2</sub>Se crystals, *Physica B*, Vol. 458, 1 Feb. 2015, pp. 149-154.
  4. Iyad Suwan, Anan Hussein, Abdelhalim Ziqan and Mahmoud Al-Manasra, A General Technique for Converting  $n \times n$  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.
  5. 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.
  6. 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.
  7. Abdelhalim M. Ziqan, Atomic Solution For Higher Order Degenerate Abstract Cauchy Problem, *Advances in Theoretical and Applied Mathematics*, Volume 8, Number 3 (2013), pp. 203–208.
  8. 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.
  9. Saed F. Mallak, Mohammad Mara'Beh and Abdelhalim Zaiqan, Further Particular Classes of Ergodic Finite Fuzzy Markov Chains, Volume 6, Number 2 (2011), pp. 269-281.
  10. 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.
  11. 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.
  12. 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.

### **Teaching Experience**

Fundamentals of Mathematics, Ordinary Differential Equations, Partial Differential Equations, Real Analysis and Topology.

### **Graduate Level**

Real Analysis, Functional Analysis, Advance Partial Differential Equations and Integral Equations.

### **Conferences:**

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

### **Committees:**

1. A member of the organization committee for the fifth Palestinian conference on modern trends in Mathematics and Physics, July 31-August 2, 2016.
2. Member of the Organizing Committee for the day of mathematics/Reviewer, which was held in the Arab American University, 2009.
3. Member of the national Palestinian mathematical Olympiad committee, 2012.
4. 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. The Bivariate Shifted Legendre Functions for Nonlinear Volterra Integral Equation.
2. Haar Wavelet Method for Nonlinear Integral Equations, 2016.
3. Inverse Integrating Factor Method of Planar Autonomous Polynomial Differential Systems, 2016.
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.