

CURRICULUM VITA

**Dr. Abdelazeem Mohamed
Abdel Wahab**

Ph. D. in Engineering Mathematics

Assistant Professor of Engineering Mathematics.

AASTMT

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1-Personal Data

Name : Abdelazeem Mohamed Abdelwhab Karsouh

Date of Birth : 26/8/1965

Address : 41 Omar Zafaan Street, Al Ibrahimya, Alexandria, Egypt.

Phone Number: (0122 3733999) Home: (03 5919287)

Marital Status: Married

Current Position: Assistant Professor of Engineering Mathematics.

Institute of Basic& Applied Science – Collage of Engineering, AASTMT

2-Education:

a- Ph. D. in Engineering Mathematics

Title : " Sensitivity Analysis and Synchronization of Chaotic Dynamical Systems and Applications" Department of Engineering Mathematics and Physics, Faculty of Engineering, Alexandria University, Egypt, 2005.

Area of Specialization: Analysis of Chaotic dynamical system, Sensitivity Analysis

Courses: Perturbations and Asymptotic Methods, Ergodic Theory, Partial Differential Equations

b- M. Sc. in Engineering Mathematics

Title: "Normal forms of nonlinear vector fields and applications " Department of Engineering Mathematics and Physics, Faculty of Engineering, Alexandria University, Alexandria (21544) Egypt, 1998.

Area of Specialization: Analysis of Nonlinear Systems

Courses: Advanced Linear Algebra, Ordinary Differential Equations, Integral Equations, Topology and Graph Theory, Differentiable Dynamics, Advanced Topics in Engineering Mathematics

c-Diploma in Engineering Mathematics (1994)

Department of Engineering Mathematics and Physics, Faculty of Engineering, Alexandria University, Egypt, 1994.

Courses: Advanced Topics in Complex Variables, Statistics and Probability, Analytical Mechanics, Fluid Dynamics, Differential and Projective Geometry, Topology, Linear Algebra and Theory of Sets

d- B. Sc., in (Electrical Engineering)" Communication & Electro physics Section", Very Good with Grade of Honor, Air Defense College, Faculty of Engineering, Alexandria University, Alexandria, Egypt, 1991.

3-Teaching Experience

I have significant experience teaching and assisting with undergraduate courses on a variety of mathematic subjects. A specific list of course experience follows:

a- Teacher Assistant: 1994- 2005

i- Teaching the following courses in the Faculty of Engineering, Alexandria University (Part time (1994-2005):

1. Vector analysis.
2. Complex analysis.
3. The theory of probability.
4. Differential equations
5. Partial differential equations
6. Linear algebra
7. Calculus I,II&III and Algebra
8. Probability and random process
9. Z-transform, Laplace transform and Fourier transform
10. Special functions.
11. Calculus+ Analytic Geometry

b-Assistant Prof.: 2005- Now

i- Teaching the following courses in Faculty of Engineering (AAST), Alexandria, Egypt (Full time2021-Now)

1. Math 1(Calc1+Algebra)
2. Math 2 (Calc2+ Analytic geometry)
3. Math4(vector and complex analysis)
4. Math6(Probability and statistics)

ii- Teaching the following courses in the Faculty of Engineering, Alexandria University (Part time 2009-2018):

1. Vector analysis.
2. Complex analysis.
3. Differential equations
4. Partial differential equations
5. Linear algebra
6. Calculus I,II&III and Algebra
7. Probability and random process
8. Math5
9. Math6
10. Calculus+ Analytic Geometry

iii- Teaching the following courses in the Faculty of Engineering, Alexandria University(SSP) (Part time 2010-2020):

1. Math1(SSP)
2. Math2(SSP)
3. Math3(SSP)
4. Math4(SSP)

vi- E- Teaching the following courses in Faculty of Engineering (PUA), Alexandria, Egypt (2013-2019)

1. Math 1(Calc1+Algebra)
2. Math2(Calc2+ Analytic geometry)
3. Math 3(Cal3+Differential equations)
4. Math 4(Laplace transform +vector analysis)
5. Linear Algebra
6. Numircal Analysis
7. Complex Analysis
8. Statistics and Probability
9. Special functions.

V-Teaching the Following Courses at Air Defense College(Full time)(2005-2012)

- a) Vector analysis.
- b) Complex analysis.
- c) Probability and statistics.
- d) Differential equations
- e) Partial differential equations
- f) Linear algebra
- g) Calculus
- h) Stochastic process and Markov Chain
- i) Z-transform, Laplace transform and Fourier transform
- j) Special functions.

4- Professional Experience

- a-Working as a Leader of Timetable in the basic engineering sciences department, faculty of engineering, PHAROS University at Alexandria (PUA)**
- b- Working as a Leader of Academic Advising & Student Affairs Committee in the basic engineering sciences department, faculty of engineering, PHAROS University at Alexandria (PUA)**

5-Software Experience:

- Maple V16-V17, MS Office Applications**
- C⁺⁺**
- Asc Timetables**

6- Personal skills

- ☐ **Creative**
- ☐ **Team worker**
- ☐ **Adapted at different environment**
- ☐ **Problem solving**

7-Books Published

- a. Engineering Mathematics 1(Differential Calculus and Analytic Geometry)Copyright@2014 ISBN:20409**
- b. Engineering Mathematics 2(Integral Calculus and Linear Algebra) Copyright@2015 ISBN:5004**
- c. Engineering Mathematics3(Multivariable Analysis) Copyright@2014 ISBN:20410**
- d. Engineering Mathematics 4(Differential equation, Fourier Series, Laplace Transform and Partial Differential Equations) Copyright@2015 ISBN:5005**
- e. Engineering Mathematics 5(Complex and Vector Analysis) Copyright@2015 ISBN:5003**
- f. Engineering Mathematics 6(Probability) Copyright@2015 ISBN:5002**

8-Training Course,Certificates

- Attend the following courses at Faculty and leadership development Center – Alexandria University which Certified by International Board of Certified Trainers European Division :**
 - a. Use Technology in Teaching .**
 - b. Quality Slandered in Teaching .**
 - c. Crisis & Disaster Management .**
 - d. Decision-Making and Problem-Solving**
 - e. Research Team Management**
 - f. Communication Skills in Education**

9-RECENT PUBLICATIONS:

- [1] Abdel-Karim Aboul-Hassan and **Abdel-Azim Mohamed**, "Closed Form Solutions of a Class of Nonlinear Circuits Using Normal Forms," Proceedings of the first ICEENG Conf. , 24-26 , March, 1998, pp. CS 2-8 : CS 2-17, Military Technical College, Cairo, Egypt.
- [2] Abdel-Karim Aboul-Hassan and **Abdel-Azim Mohamed**., "Detecting the Largest Lyapunov Exponent in Nonlinear Systems Using Normal Forms", Proceeding of the 3rd International Conf. on Electrical Eng., Cairo, Egypt, pp.216-224, May, 2002.
- [3] Abdel-Karim Aboul-Hassan and **Abdel-Azim Mohamed**, "Combining Numerical and Normal Form Methods in the Investigation of Qualitative Behavior of Nonlinear Circuits and Systems", Proceeding of the 3rd International Conf. on Mathematics, Dec, 2002, Cairo, Egypt.
- [4] Abdel-Karim Aboul-Hassan and **Abdel-Azim Mohamed**, "A New Method for the Control and Synchronization of Simple Chaotic Systems with Only one Nonlinear Term of one Variable", proceeding of 11th International Conf. on Aerospace Sciences & Aviation Technology, May, 2005, Cairo, Egypt.
- [5] **Abdel-Azim Mohamed** and Samy H. Darwish, "A proposed Method for Detecting the chaotic behavior in dynamical system", Proceeding of 16th International Conf. on Applied Mechanics and Mechanical Engineering, May, 2014, Military Technical College, Cairo, Egypt.
- [6] **Abdel-Azim Mohamed** and Samy H. Darwish, " A New Method for Synchronization of Simple Chaotic systems", ", Proceeding of 8th International Conference on Engineering Mathematics and Physics (ICMEP-8), April 19-21,2016 ,Military Technical College, Cairo, Egypt
- [7] **Abdel-Azim Mohamed**, "A New Method for Parameter Sensitivity Analysis of Chua system", Proceeding of 8th International Conference on Engineering Mathematics and Physics (ICMEP-8), April 19-21,2016 ,Military Technical College, Cairo, Egypt
- [8] **Abdel-Azim Mohamed**, "Sensitivity analysis of Lorenz's system Using L_2 norm method ", Proceeding of 10th International Conference on Engineering Mathematics and Physics (ICMEP-10), April 4-7,2020 ,Military Technical College, Cairo, Egypt
- [9] Yasser M. Madany; Adel M. Soliman; Abdelazeem M. Abdelwahab ; Ahmed F. Miliqy
"CRLH-TL Zeroth-Order Resonator Patch Antenna For LTE and Wireless Communication Applications"2021 Intrnational Telecommunications conference (ITC)Publisher: IEEE
- [10]** HI Abdel-Gawad, M Tantawy, **Abdelazeem M. Abdelwahab** ." Similarity solutions of a generalized inhomogeneous-nonautonomous $(2 + 1)$ -dimensional Konopelchenko – Dubrovsky equation. Stability analysis" Alexandria Engineering Journal ,**Volume 61, Issue 12**, December 2022, Pages 11225-11237.