

Faculty Logo

## Curriculum Vitae

**Name:** MOHAMED BASSEEM ABD-ALLAH HILAL SOLIMAN

**Title:** Asst. Prof. Dr.

**Department:** Basic Science

### Qualifications:

- Bachelor's Degree in 1997
- Masters Degree in 2001
- Ph.D in 2008

### Career Hierarchy:

- |                        |                          |
|------------------------|--------------------------|
| - Teaching Assistant,  | Date: 2003               |
| - Assistant Lecturer,  | Date: 2004               |
| - Lecturer,            | Date: 02 - 2008.         |
| - Associate Professor, | Date: 02 – 2020 till now |
| -Professor             | Date: ---                |

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### **Scientific Activities**

#### **1: Membership of Professional Organizations and Scientific Societies**

- i) Member of the Egyptian Mathematical Society.

#### **2: Training Courses/workshops:**

...

#### **3: Conferences, Seminars and Workshops:**

...

#### **4: Teaching Scopes:**

I have taught many courses such as

- Numerical analysis for mathematicians.
- Introduction of Probability and Statistics.
- Random process.

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- Special functions.
- Integral transform and Z-transform.
- Introduction to discrete mathematics.
- Advanced calculus.
- Operation research.
- Project Management.

**5: Scientific supervision: ...****6: Awards and Certificates of Appreciation: ...****7: Peer reviewing of scientific research/ Projects:**

I am a reviewer in some international journal such as:

Journal of Mathematics and Computer Science, Computational of the solutions of the nonlinear Volterra Fredholm Integral Equations of the second kind, Submitted 27, 2, 2022.

**8: Other Activities: ...**

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### Skills

**- Language Skills:**

Arabic Language: Native Language (Excellent).

English Language: (Very Good).

**- Computer Skills:** I am a good researcher in integral equations and its applications, an excellent programmer in my field using Maple language and learning to use Python programming.

**- Presentation skills:** I am working on Webex as a lecturer for some Eng. Math. courses using PowerPoint.

**- Other skills:** ...

### Scientific Publications:

#### I: published Scientific Papers Extracted From the Masters and Ph.D Theses:

1- M. A. Abdou, A. A. Badr, M. B. Soliman, On a method for solving a two-dimensional nonlinear integral equation of the second kind, Journal of Computational and Applied Mathematics 235(12):3589-3598, 2011.

2- M. M. El-Borai, A. Abdou, A. A. Badr, M. Basseem, Singular Nonlinear integral equation and its application in viscoelastic nonlinear material, Int. J. of Appl. Math. and Mech. 4(5): 56-77, (2008).

3- M. M. El-Borai, A. Abdou, A. A. Badr, M. Basseem, Chebyshev polynomials and Fredholm-

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Volterra integral equation, Int. J. of Appl. Math. and Mech. 4(5): 78-92, (2008).

4- M. M. El-Borai, A. Abdou, M. Basseem, An analysis of two dimensional integral equations of the second kind, Le Matematiche, Volume LXII, p.15-39, (2007).

## **II: Post-Doctoral Published Scientific Papers:**

1- M.A. Abdou, M. Basseem, Thermopotential function in position and time for a plate weakened by curvilinear hole, Arch. Appl. Mech. (2022). <https://doi.org/10.1007/s00419-021-02078-x>.

2- M. Basseem, A. Alalyani, ON the solution of quadratic nonlinear integral equation with different singular kernels, Math. Problems in Engineering, Vo. 2020. <http://doi.org/10.1155/2020/7856207>.

3- M. Basseem, Degenerate method in mixed nonlinear three dimensions integral equation, Alexandria Eng. J. (2019), <https://doi.org/10.1016/j.aej.2017.10.010>

4- M. A. Abdou, M. Basseem, Solution of mixed integral equation in position and time using spectral relationships, Journal of the Association of Arab Universities for Basic and Applied Sciences (2017), <http://dx.doi.org/10.1016/j.jaubas.2016.05.001>

5- M. A. Abdou, M. Basseem , Numerical treatments for solving nonlinear mixed integral equation, Alexandria Eng. J. (2016), <http://dx.doi.org/10.1016/j.aej.2016.02.035>

6- M. Basseem, Degenerate Kernel Method for Three Dimension Nonlinear Integral Equations of the Second Kind, Universal Journal of Integral Equations 3, 61-66, (2015).

7- Kj. M. Abu Alnaja, M. Basseem, Two computational methods for solving mixed linear integral equation with singular kernel, IJNMA, Volume 7, p. 13-34, Issue 1 (2012).

8- M. Basseem, Kj. M. Abu Alnaja, A mixed numerical method for solving Volterra-Fredholm integral equation, IJNMA, Volume 7, p. 35-40, Issue 1 (2012).

9- M. A. Abdou, M. Basseem, A main theorem of spectral relationships for Volterra-Fredholm integral equation of the first kind and its applications, MMAS, Vol 33, Iss. 13, 1523–1531, 2010.