

# Marwa Moawad Yousef Elbehairy

Ebyar – Kfr El Zayat – Al Gharbiya – Egypt

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## Summary of Education

Master's in Mathematical Engineering	Anticipated in December 2017	
Postgraduate Courses	2015	GPA: 3.95/4
Bachelor of Electrical Engineering	2010	Grade: Very Good of 76.73%
High School	2005	Grade: 93.78%

## Research Interests

Applied and Computational Mathematics, Fluid Mechanics, Transport in porous media, membranes, interface phenomena, membrane processes, Numerical Analysis, Partial Differential Equations, Uncertainty Quantifications, Statistics, Perturbation Methods, and Singularly Perturbed Problems.

## Education

### Master's in Mathematical Engineering

Anticipated in December 2017, Master of Mathematical Engineering, *Stability Study of Some Models of Newtonian Fluids* in Faculty of Engineering, Tanta University, Egypt.

**Postgraduate Courses 2015:** GPA of 3.95/4.

**Bachelor of Electrical Engineering** – Electronics and Electrical Communication in the Faculty of Engineering, Tanta University - June 2010.

**Grade:** Very Good of 76.73%

**Graduation Project:** *Analysis and Design of Antenna Arrays and their Applications in Satellite Communications and Practical Implementation of Broadband Antenna Models.*

**Grade:** Excellent. **Tools:** Matlab Software.

## Published Articles

Yasser Gamiel, Zahra, W.K., and Marwa Elbehairy " Stability Criteria of Streaming Conducting Fluids through Porous Media under the Influence of a Uniform Normal Magnetic Field" International Journal of Mathematics Trends and Technology (IJMTT)-vol. 41, 2, (147-155), 2017.

- Effect of applying a magnetic field on the Flow through Porous Cylindrical Fibrous Beds, submitted.

## Employment Experience

### Teaching Experience

**September 2012 – 2014: Assistant Teacher in the Faculty of Engineering at Tanta University (Part time).**

Working as Assistant Teacher in the Faculty of Engineering, includes teaching mathematical engineering courses for different levels such as Ordinary and Partial Differential Equations, Linear Algebra, Statics and Dynamics, Complex Analysis and Statistics.

**September 2019 – present: Mathematics Assistant Teacher at HIET (Full time).**

At Higher Institute of Engineering and Technology, Kafr El-Sheikh, I was teaching the following courses for students (Pure Mathematics, Application of Mathematics and General Mathematics). Also, I did monthly and semester exams.

### Engineering Experience

- **GSM** - Global System of Mobile Communication Certificate ( 2009).
- **VLSI** – Based Design For Communication Application Certificate Organized by National Telecommunication Institute ( Ministry Of Communication and Information Technology. 2011 ).

## Technical Skills

- C++ Programming Language.
- Mathematica.
- Modeling systems for computational fluid dynamics: ANSYS Fluent.
- MATLAB (Matrix Laboratory), Maple.
- Latex Writing Skills.

