

**DR. Marwa M. Zahran***Associate Professor, Computer and Electrical engineering Department, King Abdulaziz University***Education**

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Electrical Engineering	Alexandria University, Egypt	2009
MS	Electrical Engineering	Alexandria University, Egypt	2004
BS	Electrical Engineering	Alexandria University, Egypt	2000

**Academic Experience**

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title</i>	<i>Full or Part Time</i>
2000	2001	Alexandria University	Demonstrator		Part Time
2001	2004	Alexandria Institute of Technology	Demonstrator		Full Time
2004	2004	Alexandria Institute of Technology	Teaching Assistant		Full Time
2006	2008	North Carolina State University	Research Assistant		Full Time
2008	2009	Pharos University	Teaching Assistant		Full Time
2009	2012	Pharos University	Assistant Professor		Full Time
2012	Date	King Abdulaziz University	Associate Professor		Full Time

**Non Academic Industrial Experience** *(including Consultations)*

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description</i>	<i>Full or Part Time</i>
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**Funded Research Projects and Patents from the Past Five Years****Certifications and Professional Registrations**

Registered Professional Engineer in Egypt

**Current Membership in Professional Societies and Organizations**

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1. International Association of Engineers, IAENG	Member	2012
2. Institute of Electrical and Electronics Engineers, IEEE	Member	2012

**Honours and Awards**

- February 2012 "CPD program Award"  
Selected as one of the ranked staff members to participate in CPD program in teaching and learning, offered by the Institute of International Education.
- June 2011: "Highest Ranked Staff Member Award"  
Selected as one of the highest ranked staff members in Pharos University questionnaire during the academic year 2010-2011.
- July 2009 "Best Paper Award"  
The paper has been selected as "Best Paper" based on the reviews of the original submission, the camera-ready version, and the presentation during the Forth International conference on Digital Telecommunications, ICDT 2009, July 20-25, 2009- Colmar, France. "Serial Concatenation of LDPC and Turbo Codes for GPRS system under different Fading Channels"

**Institutional and Professional Services** *(administration, committees, units, etc.)*

1. [Marwa M. Tharwat](#), M. S. Attia, M. S, Alghamdi, and Amr M. Mahros, "Ultra-Sensitive Nano Optical Sensor Samarium-Doxycycline Doped in Sol Gel Matrix for Assessment of Glucose Oxidase Activity in Diabetics Disease," **Journal of Fluorescence**, vol. **27**(5), 1885–1895, **2017**.
2. Amr M. Mahros, [Marwa M. Tharwat](#), and Ali M. Elrashidi, "Exploring the Impact of Nano-Particle Shape on the Performance of Plasmonic based Fiber Optics Sensors," **Plasmonics**, vol. **12**(3), 563–570, **2017**.
3. Ali M. Elrashidi, [Marwa M. Tharwat](#), and Amr M. Mahros, "Study of Plasmonic Exponential Nano-hole Arrays and its Application as an Optical Sensor," **Journal of Computational and Theoretical Nanoscience**, vol. **13**(7), 4539–4543, **2016**.
4. [Marwa M. Tharwat](#), and Amr M. Mahros, "Enhanced plasmonic absorber based on a hexagonal annular nanoarray and impact of imperfection," **Materials Express**, vol. **6**(3), 229-236, **2016**.
5. [Marwa M. Tharwat](#), Haya AlSharif, Haifaa Alshabani, Eilaf Qadi, and Maha SultanE., "Design of an optical sensor based on plasmonic nanostructures," SPIE Photonics Europe, Volume 9883, Metamaterials, **Brussels, Belgium**. April 3, **2016**.
6. Islam Ashry, Ali M. Elrashidi, [Marwa M. Tharwat](#), Yong Xu, and Amr M. Mahros, "Investigating the Optical Transmission Spectra of Plasmonic Spherical Nano-Hole Arrays," **Plasmonics**, vol. **10**(3), 511–517, **2015**.
7. Amr M. Mahros, and [Marwa M. Tharwat](#), "Investigating the fabrication imperfection of plasmonic nano-hole arrays and its effect on the optical transmission spectra," **Journal of Nanomaterials**, vol. 2015, Article ID 178583, 8 pages, **2015**.
8. Amr M. Mahros, [Marwa M. Tharwat](#), and Ali M. Elrashidi, "A Novel Performance Analysis of the Microstrip Antenna Printed on a Cylindrical Body," **International Journal of Antennas and Propagation**, vol. 2014, Article ID 613245, 9 pages, **2014**.
9. [Marwa M. Tharwat](#), Islam A. Ashry, Ali M. Elrashidi, Amr M. Mahros, "A study of green wavelength-division multiplexed optical communication systems using cascaded fiber bragg grating," **Optical Fiber Technology**, vol. 20(5), pp. 467–472, **2014**.

### **Recent Professional Development Activities** (*Workshops, training, etc.*)

1. "IDEAL" Workshop, Jeddah Hyatt Hotel, Jeddah, Saudi Arabia, September 2019.
2. "ABET Accreditation" Workshop, King Fahd Research Center, King Abdulaziz University, Jeddah, Saudi Arabia, August 2019.
3. "Classroom Assessment Technique" Workshop, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia, March 2018.
4. "Effective MCQs" Workshop, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia, October 2017.
5. "Assessment Tools" ASU Workshop, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia, October 2017.
6. "ABET Accreditation for Better Teaching and Learning" ASU Workshop, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia, April 2014.

