

Dr. Ghada Abd El-Zaher El-Saeed Ali El-Gamal



POSITION: Lecturer in Mechatronics Department, Heliopolis University

WORK [Since January 2019]

EXPERIENCE:

Heliopolis University

Position: Lecturer in Mechatronics Department, [Full-Time]

Subjects taught:

- Sensors and measurements
- Fluid Mechanics
- Material Science
- Thermodynamics
- Heat and mass transfer
- Technical Installations

Administrative Work:

- Vice President of Quality Unit at the Faculty of Engineering Heliopolis University
- Head of Staff Training Committee
- Responsible for the Standard of teaching, learning and Evaluation.

[From September 2014 to December 2018]

Heliopolis University

Position: Assistant Lecturer, [Full-Time]

Subjects taught:

- Sensors and measurements
- Technical Installations
- CAD/CAM
- Fluid Mechanics
- Engineering Drawing
- Heat and mass transfer
- Production Technology
- Thermo-dynamics
- Mechanics 1&2

- Solar Thermal Energy Systems
- Applied Control Technology
- Developing the e-learning courses in GIEP project
- Participated and certified as a trainer from BFI in the TOT program of Solar Thermal Heaters under ADA Project, which is further used in teaching Solar Thermal Energy Systems course
- Participated in the Children University Phase I, and III

ABB for power systems and technology

Position: Mechanical Sales Engineer in the department of Sales and Proposals [Full Time]

EDUCATION AND TRAINING:

Education

Ain Shams University Faculty of Engineering

2019 Ph.D. in mechanical power engineering.

Thesis Title: **Investigation of Sharp Corners' Jet Flames**

2013 Masters of Science in mechanical power engineering.

Thesis Title: **Effects of Cross Flow and Double Swirl on Vitiated Co-Flow Jet Flame.**

2002-2007 B.Sc. in Mechanical Power Engineering, (**attain Good**) (73.32%).

Graduation project: Study of Flame Stability in Flare Systems, (**attain Distinction**).

Publications:

M. A.Nosier, M.M.Kamal, M.A.Khalek, A.M.Hamed; G. El Gamal, Effect of Sharp Corners' Nozzles on Inverse Jet Diffusion Flames; SSRG International Journal of Mechanical Engineering (SSRG - IJME) – Volume 5 Issue 9 – September 2018.

M. A.Nosier, M.M.Kamal, M.A.Khalek, A.M.Hamed; G. El Gamal, Numerical Modeling of Inverse Jet Diffusion Flames Using Sharp Corners' Nozzles, Proceedings of ICFD13: Thirteenth International Conference of Fluid Dynamics , 21-22 December, 2018, Steigenberger Hotel El Tahrir, Cairo, EGYPT

G.Elgamal, M.M.Kamal, and A.Morgan , Swirl and Cross-Flow Effects on Vitiated Jet Flames; Combustion Science and Technology, Volume 185, Issue 2, 2013.

G.Elgamal, M.M.Kamal, and A.Morgan, Swirl and Cross-Flow Effects on Vitiated Jet Flames; Journal of Al Azhar University Engineering Sector, Volume 8, No. 26, 2013,63-77.

Courses

- ABB Leadership Challenging Program
- ABB Anti-bribe
- Academic Standards
- E-learning Training at RWTH Aachen University
- Solar thermal water heaters, TOT/ADA
- TRNSYS 16/17

Teaching to partially deaf students

Conferences

The fifth workshop of patent innovation at the Arab League
ICFD13 – the Thirteen’s International Conference of
Computational Fluid Dynamics