

# Amal Shafeek Ateya Behairy

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## **Personal Data:**

- Degree : PhD (Experimental Physics)
- Job : Head of Basic Sciences and Engineering Department at High Institute of Engineering and Technology in New Damietta
- Specialization: Experimental Physics (Condensed Matters)

## **Qualifications:**

- PhD in Philosophy of Science (Experimental Physics), Nanotechnology and Thin Films and Solar Cell Work, Study of Electronic and Optical Properties of a  $ZnIn_2Se_4$  Thin Film Compound from Mansoura University (New Damietta College of Science)
- Master of Science in Atomic Physics (Ion Sources Studies) Compound from Mansoura University (New Damietta College of Science)
- Bachelor of Physics from Ain Shams University

## **Practical experiences:**

- Teaching in the Faculty of Specific Education from 2000 to 2004
- Teaching (scholarship) in the Faculty of Science from 2004 to 2010
- Teacher at Higher Institute of Engineering and Technology in New Damietta from 2013 to 2021.
- Associate Professor at Higher Institute of Engineering and Technology in New Damietta from 2021 till now.
- Arbitrator for doctoral and master's theses in Egyptian universities.

## **Research published (internationally):**

- Investigation of ion output in an Orbitron with Axial Magnetic Field.
- Absorption and dispersion studies of thermally evaporated nano crystallite structure  $ZnIn_2Se_4$  thin films (The European Physical Journal Applied Physics).
- Structure formation and mechanics of DC conduction in thermally evaporated nano crystallite structure  $ZnIn_2Se_4$  thin films (ELSIVIER)

- Fabrication, electrical transport mechanism and photovoltaic properties of methyl violet 2B/n-Si hybrid organic/inorganic solar cell (Microelectronic Engineering).
- Structural Characterization of Novel Cerium Phosphate Glass Ionomer Cements (GICs) Doped with GaCl (Phthalocyanine).
- Structural Role of Cerium Oxide in Lead Silicate Glasses and Glass Ceramics.
- Nano Crystallites and Clustered Species in Modified Sodium Telluride Glasses.
- Characteristic Studies on Whisker-Reinforced Borosilicate Glasses.
- Structural Characterizations for Glass Ionomer Cement Doped with Transition Metal Phthalocyanines.
- Structural Investigations on Sodium Rich Silicate Glass Ceramics.
- Optical parameters, antibacterial characteristics and structure correlation of copper ions in cadmium borate glasses.

### **Training courses and scientific activities:**

- Self Assessment Course for Colleges and Institutes of Higher Education from National Authority for Quality Assurance and Accreditation of Education.
- External review of colleges and institutes of higher education from National Authority for Quality Assurance and Accreditation of Education.
- Strategic planning for H.E institutes from National Authority for Quality Assurance and Accreditation of Education.
- Education programs and courses specifications and Evaluation of learning out comes for H.E institutes from National Authority for Quality Assurance and Accreditation of Education.
- Program for the preparation of high administrative and executive leadership from National Authority for Quality Assurance and Accreditation of Education.
- مشروعات البحوث التنافسية والعالمية (مركز تنمية قدرات أعضاء هيئة التدريس (FLDP) والقيادات بجامعة دمياط).
- استخدام التكنولوجيا فى التدريس (مركز تنمية قدرات أعضاء هيئة التدريس (FLDP) والقيادات بجامعة دمياط).
- اخلاقيات البحث العلمى (مركز تنمية قدرات أعضاء هيئة التدريس (FLDP) والقيادات بجامعة دمياط).

- إدارة المراكز والوحدات ذات الطابع الخاص (مركز تنمية قدرات أعضاء هيئة التدريس (FLDP) والقيادات بجامعة دمياط).
- مكافحة الفساد والتعرف به (مركز تنمية قدرات أعضاء هيئة التدريس (FLDP) والقيادات بجامعة دمياط).
- إدارة الأزمات والكوارث (مركز تنمية قدرات أعضاء هيئة التدريس (FLDP) والقيادات بجامعة دمياط).

### **Teaching experience :**

- Physics Teaching 1 - Physics 2 Higher Institute of Engineering and Technology in New Damietta from 2013 till now.
- Physics 1 (measurements and dimensions - properties of material - heat - thermodynamics - fluid mechanics - sound).
- Physics 2 (Electromagnetism - Magnetism - Light - Quantum Mechanics).
- Teaching Computer Software Faculty of Specific Education - Mansoura University.
- Scholarship in Experimental Physics - Faculty of Science Mansoura University.
- Teaching of pre-university physics.

### **Management experience:**

- Academic Advising and Clerk Committee.
- Vice President of Control for five years at the Institute.
- Member of Quality Assurance Unit:
  1. coordinator of communications unit.
  2. Institutional capacity officer in the unit.
- Supervision of student activities:
  1. Committee of Families.
  2. The technical committee official in the student union.