
Noha Mohamed Abd Elaziz Askar

Assistant Lecturer
School of Applied Health Science and Technology
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Personal Information

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Professional Experience

Assistant Lecturer School of Applied Health Science and Technology, Horus University, Dumyat Al Jadida, Dumyat, Egypt	Aug 2024 – Present
Assistant Lecturer School of Engineering, Future University, Cairo, Egypt	Oct 2021 – Feb 2024
Assistant Lecturer School of Engineering, Horus University, Dumyat Al Jadida, Dumyat, Egypt	Feb 2017 – Sep 2021

Teaching Experience

Courses Taught

- | | |
|---|---------------------|
| • Electric Circuits (360 students – English) | Feb 2026 |
| • Biophysics 1 (1530 students – English) | Oct 2024 – Feb 2026 |
| • Physics 1 and 2 (620 student – English) | Oct 2024 – Oct 2025 |
| • Engineering Physics (1070 students – English) | Oct 2021 – Feb 2024 |
| • Physics 1 and 2 (2834 students – English) | Oct 2018 – Sep 2021 |
| • Biophysics 1 and 2 (1240 students – English) | Feb 2017 – Oct 2018 |

Awards

The Dakahlia Governor's Education Award:

Awarded by the Dakahlia Governor, Dr. Ahmed El-Sharawy, for obtaining the third ranking over 400 students in the Biophysics program in the academic year 2016

Education

M.Sc. (Biophysics)

Jun 2018 – Dec 2019

School of Biophysics, Mansoura University, Egypt

Thesis: [Improvement of Physical Properties for Polymeric Sample Used to Preserve Cultural Heritage](#)**Master's courses**

Oct 2016 – May 2017

Biophysics Concentration

School of Biophysics, Mansoura University, Egypt

Grade: Excellent with honors

Bachelor of Science (B. Sc)

Oct 2013 – May 2016

School of Biophysics, Mansoura University, Egypt

Major: Biophysics

Grade: Excellent with honors

GPA: 3.52 / 5 - Third order

Publications**1. Trends in Science, 2023**

Asker, N., and R. Abou Gabal. "[Theoretical and Experimental Approach for the Sensation of Urine Ubiquitin Conjugating Enzyme E2 C \(UBE2C\) mRNA Related to Bladder Cancer by Polyacrylamide Sensor Doped with Zinc Oxide.](#)" Trends in Sciences 20.2 (2023): 3566-3566.

Abstract: Bladder cancer (BC) is the ninth and 4 most prevalent cancer in men worldwide and in the United States. Urothelial carcinoma (UC) is the most common histological kind. Biosensors are devices that translate complex biological events into an electrical signal whose intensity is proportional to the analyte's concentration, allowing them to detect a specific biological analyte. Nanotechnology with nanoparticles improves and modifies the biorecognition element to improve the biosensing phenomenon, making it one of the most popular subjects among scientists. Employment of Zinc Oxide (ZnO) nanoparticles into the polyacrylamide (PAM) is supposed to enhance electrical and sensory capabilities that promise more inventive and faster detection with improved repeatability.

2. Journal of Materials Research and Technology, 2019

Abdelghany, A. M., M. S. Meikhail, and N. Asker. "[Synthesis and structural-biological correlation of PVC/PVAc polymer blends.](#)" Journal of materials Research and technology 8.5 (2019): 3908-3916

Abstract: PVC/PVAc polymer blend with different mass fraction concentration were prepared using traditional solvent casting technique. Fourier transform infrared FTIR used to identify various vibrational groups presented in associated with structural changes. X-ray diffraction data approve the amorphous nature of all samples despite their concentration while optical (UV\vis) spectra confirm the complexation behavior of blend system and their miscibility. Optical energy gap and Urbach energy were calculated for further data interpretation. The obtained energy gap data determine the direct transition which suggests that a prepared blend is a conductive material. However, Urbach energy shows no crystal lattice disorder change that ensures X-ray results. The Scanning electron microscope (SEM) reveals the smooth and homogenous nature of the surface morphology for all proportions. Prepared films showed good antibacterial characteristics against gram-positive pathogenic grams in contrast with gram-negative, fungal, and yeast.

Community Service

Team Advisor for [Horus Ambassador team](#)

Apr 2019 – Sep 2021

1. Advised students on social integration to support their adjustment and well-being at university.
2. Represented Horus University at both national and international conferences, effectively acting as university ambassador and showcasing the institution's values and achievements
3. Encouraged team participation in volunteer work and highlighted its value.
4. Coordinated student involvement in CNC and Robotics projects in Damietta City, demonstrating the university's focus on innovation and community engagement.
5. Organized events and programs for Horus University students, supporting an active campus community.
6. Oversaw the team's budget and prepared the annual financial plan.
7. Collaborated with the Learning and Teaching Associate Dean, Manager, and other relevant stakeholders to review and improve team operations and initiatives.

Volunteering in Camp Adventure Youth Services Mansoura college

Sep 2018 – Nov 2018

1. Completed a two-month volunteer assignment working with children aged 10 to 16.
2. An organised weekly activity designed for a group of 10 to 20 children.
3. Exercised effective supervision during classroom activities and field trips.

Volunteering in Resala organization

Feb 2013 – Aug 2017

1. Assist organization members in sorting clothing to facilitate distribution to individuals in need.
2. Oversee annual budget management.
3. Coordinate and implement events tailored to address the needs of underprivileged villages and individuals in need.

Working in the Student Union

Apr 2014 – May 2016

References:

1. [Prof.Noha Mohamed Kamel Abd Elaleem](#)
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2. **Dr. Niseem Magdy Abdelrahman**

Research Assistant Professor

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