



# Curriculum Vitae

## Personal Information

**Name:** Mohammed Nabil abd Elsalam abd Elraheem  
**Gender:** Male  
**Nationality:** Egyptian  
**date of Birth:** 1 / 1 / 1983  
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**Current Position:** Associate Professor, Physics, Basic Science Department, Higher Engineering and Technological Institute, El-Minya, Egypt. [7/ 10/ 2008 - up till now].

## Education and Qualifications



- + Ph. D of Physics, Assiut University, Faculty of Science *Assiut, Egypt***
  - **Research Area(s):** Experimental solid-state physics 2015 – 2019
  - **Description:** (Study on Amorphous alloys and thin films)
  - **Project:** “Study of Structural, Optical and Electrical Properties of Se-As-Ag Chalcogenide Semiconductors”
  
- + M.Sc. of Physics Assiut University, Faculty of Science *Assiut, Egypt***
  - **Research Area(s):** Experimental solid-state physics 2010 – 2014
  - **Description:** (Study on Amorphous alloys and thin films)
  - **Project:** “Study of some physical properties of Se- In- Pb Chalcogenide Glasses”.

- ✚ *Diploma in Education, Assiut University, Faculty of Education* *Assiut, Egypt*  
(General Diploma - one year system – very Good ) *2007*
- ✚ *B.Sc, Physics, Al-Azhar University, Faculty of Science* *Cairo, Egypt*  
(Special Physics – very Good ) *2002- 2005*  
Graduation Project: "Hall effect" [Excellent Degree]. *2005*

## **Academic Experience**

<i>Title</i>	<i>From- To</i>	<i>The enterprise</i>
<i>Associate Professor</i>	<i>2025 – till now</i>	
<i>Assistant Professor</i>	<i>20019 – 2025</i>	<i>Higher Engineering and Technological</i>
<i>Assistant lecturer</i>	<i>2014 – 2019</i>	<i>Institute, El-Minya, Egypt</i>
<i>Demonstrator</i>	<i>2008 – 2014</i>	

## ✚ *Courses taught*

❖ Properties of matter

❖ Electricity and magnetism

❖ Optics and Modern physics

✚ *(Laboratory of General Physics Experimentally):-*

❖ Properties of matter Lab.

❖ Electricity Lab.

## **Administrative experience**

- Member of the administrator council of higher engineering and technological institute, El-Minya, 2022-2023.
- Leader team of the scientific research and scientific activities of “Unit Quality Assurance and Accreditation” “from 2019 - Until now”.
- Vicar president of the Department of Basic Sciences of higher engineering and technological institute, El-Minya, 2021- Until now.
- Member of the Academic council of higher engineering and technological institute, El-Minya, 2023-2024.

- Member of team of the Strategic planning of “Unit Quality Assurance and Accreditation” 2023 – 2024



## Training experience

### ❖ Training from National Authority for Quality Assurance of Education and Accreditation.

- 1- Statistical Analysis using SPSS, information technology center, El-Minya University, from 19, 20 March 2025.
- 2- Strategic planning for faculties and institutes of higher education, from, 4 – 5 July 2023
- 3- Self-evaluation of faculties and institutes of higher education, from, 27 – 29 July 2019.
- 4- Description of programs and courses for faculties and institutes of higher education, from 2 – 4 Sep. 2019.
- 5- Teaching strategies for faculties and institutes of higher education, from 25 – 26 Sep. 2019.

### ❖ Training from Higher Engineering and Technological Institute.

- 6- Modern Trends In Education, from 11 Aug. 2020.
- 7- Communication and presentation skills, from 13 July 2021.
- 8- scientific research methodologies, from Egypt, 21 Oct. 2022.



## language / SPECIAL SKILLS

<b>Arabic</b>	Speaking ✓	Reading ✓	Writing ✓
<b>English</b>	Speaking ✓	Reading ✓	Writing ✓
<b>Others</b>			
<b>Computer Skills</b>	Internet, e-learning, Mathcad professional, “Origin lap” International Computer Driving License ICDL		



## List of Publication:

- **Published in international journal.**

- 1) [Mohamed N. Abd-el Salam](#), Gharam A. Alharshan, M.A.M.Uosif , El Sayed Yousef, E. R. Shaaban, **Impact of Low Iron Doping on the Structural, Optical, and Magnetic Properties of Zinc Oxide Nanofilms for Spintronic Applications.** *journal of superconductivity and novel magnetism*, 2024. Vol. 37, pag.1871-1883, (2024).
- 2) [Mohamed N. Abd-el Salam](#), Abdel-Haleem Abdel-Aty, Khalid I. Hussain, A. Ashour, Zainab MH El Qahtani, El Sayed Yousef , E. R. Shaaban., **The Influence of the Incorporation of Mn Atoms in CdO Nanoparticles on Structural Pathways, Linear, and Non-linear Optical Characteristics for Optoelectronic Devices.** *Journal of Nonlinear Optical Physics & Materials*, Vol. 34, No. 1, (2025) 2450023.
- 3) [Mohamed N. Abd-El Salam](#), Meshal Alzaid, Mohrah Alwshih, N.M.A. Hadia, **Role of Cu dilute on microstructures, optical, photoluminescence, magnetic and electrical properties of CdS film.** *Materials Science in Semiconductor Processing* 127 (2021) 105687.
- 1) [Mohamed N. Abd-el Salam](#), E.R. Shaaban, F. Benabdallah, Abdelwahab M.A. Hussein, Mansour Mohamed, **Experimental and theoretical studies of glass and crystallization kinetics of semiconducting  $As_{40}Se_{40}Ag_{20}$  chalcogenide glass.** *Physica B: Physics of Condensed Matter*, 608 (2021) 412745.
- 2) [Mohamed N. Abd-el Salam](#), N Afify, Gh. Abbady, D. Hamad, R. F. Abdelbaki, El Sayed Yousef, E. R. Shaaban, **The effective role of dilute Co on SnO<sub>2</sub> nanoparticles: structural, optical and magnetic characterization properties for spintronics.** *Sensors and Actuators A* 331 (2021) 112984
- 3) [Mohamed N. Abd-el Salam](#), Mansour Mohamed, E.R. Shaaban, **The role of doping and heating rate in optimizing the crystallization parameters of  $As_{35}Se_{65-x}Sb_x$  glasses.** *Applied Physics A*, August (2021) 127:694
- 4) [Mohamed N. Abd-el Salam](#), M. Alzaid, A. Qasem, E. R. Shaaban, N. M. A. Hadia, **Pre-Crystallization Criteria and Triple Crystallization Kinetic Parameters of Amorphous–Crystalline Phase Transition of  $As_{40}S_{45}Se_{15}$  Alloy.** *Journal of Inorganic and Organometallic Polymers and Materials*, 2021, 31.12: 4563-4580.

- 5) [Mohamed N. Abd-el Salam](#), Mansour Mohamed, ***Thermal stability and crystallization kinetics of Sb additive of As-Se glasses***, *Journal of Thermal Analysis and Calorimetry*. Nov. 2021, 1-14
- 6) [Mohamed N. Abd-el Salam](#), H. I. Elsaed.Y., M. Mahmoud, S. A. AbdElaal, H. A. Yakout, E. R. Shaaban, ***Investigate the appropriate model for describing the crystallization process of Te<sub>65</sub>Sb<sub>25</sub>Ga<sub>10</sub> thin film***. *Chalcogenide Letters*, (2021)18(3).
- 7) [Mohamed N. Abd-el Salam](#) A. Abu El-Fadl, Ragaa S.Mahmoud, A. A. Abu-Sehly, El Sayed Yousef, E. R. Shaaban, ***The role of Co in doping ZnO nano-particles in enhancement the structural, optical and magnetic properties for spintronics***, *Journal of Ovonic Research*, Vol. 17, No. 6, November - December 2021, p. 499 - 507
- 8) [Mohamed N. Abd-el Salam](#), Mansour Mohamed, E. R. Shaaban, M. A. Abdel-Rahim, A.Y. Abdel-Latief, ***The crystallization kinetics studies of the two crystallization stages of As<sub>37.5</sub>Se<sub>37.5</sub>Ag<sub>25</sub> glass using the model-fitting and model-free approaches***, *Chinese Journal of Physics* 60 (2019) 35–47.
- 9) [M.N. Abd-el Salam](#), E.R. Shaaban, M.A. Abdel-Rahim, Mansour Mohamed, A.Y. Abdel-Latief and El Sayed Yousef, ***Structural and Optical Constants of Annealed As<sub>47.5</sub>Se<sub>47.5</sub>Ag<sub>5</sub> Film using DSC Transformation Curve***. *ACTA PHYSICA POLONICA A*, Vol. 135 (2019).
- 10) [Mohamed N. Abd-el Salam](#), Mansour Mohamed, E. R. Shaaban, Safwat A.Mahmoud, M. A. Abdel-Rahim, ***Investigation of the optical and electrical parameters of As<sub>47.5</sub>Se<sub>47.5</sub>Ag<sub>5</sub> thin films with different thicknesses for optoelectronic applications***. *Optik - International Journal for Light and Electron Optics* 178 (2018) 1302–1312.
- 11) [Mohamed N. Abd-el Salam](#), E. R. Shaaban, Mansour Mohamed, A. Y. Abdel-Latief, M. A. Abdel-Rahim, El Sayed Yousef, ***Structural, linear and non-linear optical properties of annealed As<sub>47.5</sub>Se<sub>47.5</sub>Ag<sub>5</sub> thin films for optoelectronic applications***. *Optical Materials* 86 (2018) 318–325.
- 12) [Mohamed N. Abd-el Salam](#), Mansour Mohamed, A. Y. Abdel -Latief, M. A. Abdel -Rahim, N. M. A. Hadia, E. R. Shaaban, ***Examination of the kinetic reaction mechanisms of amorphous As<sub>50</sub>Se<sub>50</sub> chalcogenide glass***. *Applied Physics A* (2018) 124:562 <https://doi.org/10.1007/s00339-018-1976-8>.
- 13) [Mohamed N. Abd-el Salam](#), Mansour Mohamed, M. A. Abdel -Rahim, M. Mohamed, A. Y. Abdel -Latief, E. R. Shaaban, ***Effect of Ag addition on crystallization kinetics and thermal stability of As–Se chalcogenide glasses***. *Journal of Thermal Analysis and Calorimetry*, April 2018, Volume 132, Issue 1, pp 91–101.

- 14) [Mohamed N. Abd-el Salam](#), E. R. Shaaban, M. Mohamed, M. A. Abdel-Rahim, A. Y. Abdel-Latief. **Determination of the optical constants of As–Se–Ag chalcogenide thick films with high precision for optoelectronics applications**, *Journal of Materials Science: Materials in Electronics*, September 2017, Volume 28, Issue 18, pp 13379–13390.
- 15) [Mohamed N. Abd-el Salam](#), M.A. Abdel-Rahim, A.Y. Abdel-Latief, **Kinetic analysis of crystallization process of Se-In-Pb glasses Iso-conversion method**, *Thermochimica Acta* 573 (2013) 57– 64.
- 16) [Mohamed N. Abd-el Salam](#), M.A. Abdel-Rahim, A.Gaber, A.Y. Abdel-Latief, **Iso-conversional kinetic study of non-isothermal crystallization of Se<sub>89</sub>In<sub>6</sub>Pb<sub>5</sub> chalcogenide glass**, *Egyptian journal of Solids* 2015.
- **Conference participation.**
    - i. [Mohamed N. Abd-el Salam](#), M.A. Abdel-Rahim, A.Y. Abdel-Latief, **Kinetic analysis of crystallization process of Se-In-Pb glasses Iso-conversion method, the first international conference on new horizons in basic and applied science, 21-23 Spt. (2013), Hurghada-Egypt.**
    - ii. [Mohamed N. Abd-el Salam](#), E.R. Shaaban, M. Mohamed, M.A. Abdel-Rahim, A.Y. Abdel-Latief, " **Investigation of the optical constants for non-uniform thickness thin Films of As-Se-Ag chalcogenide glassy system**", *The 1<sup>st</sup> International Conference on Physics Materials Sciences & Engineering (ICPMSE), Luxor, Egypt (2017) 22.*

## References:

- 1- **Prof.Dr. E. R. Shaaban**, Department of Physics, Faculty of Science Al-Azahar University – Assiut.  
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- 2- **Prof.Dr. M.A. Abdel-Raheem**, Department of Physics, Faculty of Science, Assiut University.  
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