

## Curriculum vitae

### **NAWROZ ISMAEL HASSAN**

- Erbil Technical Health and Medical Collage/ Polytechnic University, Rasty. St. Erbil,Iraq
- Email: nawrozih@epu.edu.iq
- mobile: +9647504989908

### **EDUCATION:**

**University of Salahaddin** 1 Oct. 2024

Ph.D of Medical Physics

**University of Salahaddine /Collage of Science** 26 Dec. 2007

M.Sc of Physics/ Laser

**University of Salahaddin /Collage of Science** 28 Jun. 2005

B.Sc of Physics

### **Academic Titles:**

- Lecturer 3<sup>rd</sup> Dec. 2014
- Assistant. Lecturer 28<sup>th</sup> May 2008

### **TEACHING/SUPERVISING EXPERIENCE:**

#### **Lecturer, Erbil Polytechnic University**

- Teaching Optics 4<sup>th</sup> year student, Information system Engineering Tech. Department, Engineering Technical Collage
- Teaching Radiation Protection 2<sup>nd</sup> year student, Dept. of Radiology, Medical Technical Institute
- Teaching Optical Physics 1<sup>st</sup> year student, Optometry Department, Medical Technical Institute

- Teaching Medical Physics 1<sup>st</sup> year students, Physiotherapy Department, Erbil Technical Health and Medical Collage.
- Physical Therapy Intervention I and II, 2<sup>nd</sup> stage, Physiotherapy Department, Erbil Technical Health and Medical Collage.
- Physics of Human Body, 1<sup>st</sup> stage, Physiotherapy Department, Erbil Technical Health and Medical Collage.

### **RESEARCHS AND PUBLICATIONS:**

- 1- Nawroz I. Hassan, Sevan H. Ali, Basim E. Gasgus ,” Preparation Of Colloidal Tin Sulfide Nanoparticles By Pulse Laser Ablation In Liquid (PLAL)” , Polytechnic Journal: Vol. 8 No.3 (Aug 2018): Pp: 1- 12
- 2- Nawroz I. Hassan, Sevan H. Ali, “ A Fabrication of CdO NPs/PS Heterojunction by laser ablation in ethanol” Polytechnic Journal: Vol.8 No. 2 (May 2018): Pp:299-308
- 3- Nawroz Ismael Hassan, Fouad Hussien Kamal, Chiman Hameed Saeed, "Comparative effect of different visible light energy on bacterial growth", International Journal of Advanced Research, 2016, Volume 4, Issue 2, 263-270
- 4- Nawroz Ismael Hassan "Effect of Thickness on the Structural and Optical Properties of ZnO Thin Film”, Journal of Collage of Education, Al-Mustansiriyah, 2013, Vol. 1, 319-332
- 5- Nawroz I. Hassan, Basim E. Gasgous, , Cheman B. Ismael, Hayfa G. Rashed “Structural and Optical Constants of Fe-doped SnO<sub>2</sub> Thin Film” Journal of Collage of Education, Al-Mustansiriyah, 2013, Vol. 1, 463-474
- 6- Nawroz I. Hassan, Basim E. Gasgouse, Mahira M. Ismail, “ Effect of Laser Irradiation on the Optical Properties of CdO thin films”, Italian Journal, GIORGIO RONCHI, 2013, N. 5, 689
- 7- Hassan, N.I., Hassan, Y.M., Mustafa, T.A. et al. Modeling optical fluence and diffuse reflectance distribution in normal and cancerous breast tissues exposed to planar and Gaussian NIR beam shapes using Monte Carlo simulation. Lasers Med Sci 38, 96 (2023).  
<https://doi.org/10.1007/s10103-023-03758-6>.
- 8- Hamad, hero, Abdullah, V. , Kamel, F., & Hassan, N. (2023). Comparative Study of He – Ne and Green Lasers Effect on Normal Human Blood Invitro Using FTIR Techniques. Polytechnic Journal, 12(1), 89-97.  
<https://doi.org/10.25156/ptj.v12n1y2022.pp89-97>
- 9- Hassan, N.I., Mustafa, T.A. and Hassan, Y.M., 2024. CO-delivery of paclitaxel and indocyanine green with Koliphore-elp35/folic acid nanoparticles for NIR-triggered chemo/photodynamic therapy in MCF-7 and MCF-10 cells. Journal of Radiation Research and Applied Sciences, 17(4), p.101086.  
<https://doi.org/10.1016/j.jrras.2024.101086>

**PROFESSIONAL ASSOCIATIONS:**

- Kurdistan Physicists' Syndicate, 2008-present
- Iraqi Medical Physics Society, 2023

**Other qualifications:**

Languages: All well written and spoken

- English
- Arabic
- Kurdish (Mother Language)

