

## CURRICULUM VITAE



*Iraqi Kurdistan Region (KRG)  
Salahaddin University-Hawler  
Education College, Physics Department*



**Name:** Mohammed Abdulla Hamad  
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**Date of Birth:** July 1 969  
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### **Academic Qualifications:**

- 1- B.Sc. (June1990) in Physics Dept., Education College, University of Salahaddin / Hawler-Iraq.
- 2- M.Sc. (2000) in Physics Dept., Science College, University of Salahaddin / Hawler- Iraq.
- 3= Ph.D (2009) in physics Dep. Science College , University of Baghdad ,Iraq.

### **Employment History:**

**1. 16/7/2000 – 15/4/2009**

Assistance lecturer, Department of Physics, College of Education / University of Salahaddin / Hawler, Kurdistan Region, Iraq.

**2. 15/4/2009 –Present**

lecturer, Department of Physics, College of Education / University of Salahaddin / Hawler, Kurdistan Region, Iraq.

### **Administration Qualifications:**

1. Assistant of the Head master of physics department of (Education College/Salahaddin University-Hawler) from 2000 to 2004.

2. Member in Examination Committee of (Education College/Salahaddin University-Hawler) for 6 years.
3. member in (Quality insurance of physics department Education College of Salahaddin University-Hawler from 2010 till 2012.
4. Member in scientific Committee of physics department from 2009-2017.

**Professional Background:**

1- Lecture in Physics Dept. College of Education , University of Salahaddin/Hawler- Iraq from 2000 till now.

**Area of Interests/ Field Of Research:**

1. Photonic crystals
- 2- Molecular physics
- 3- Negative refractive index materials
- 4- Material science

**Supervision of a Research project for the 4<sup>th</sup> stage students in Physic Department:**

- 1-Monitoring the gamma ray background radiation in Erbil city.
- 2-Vibration energy level of some molecules.
- 3-Effect of concentration on the rotational levels
- 4-studying the effect of temperature on the p-n junction current.
- 5-studying PH.C optical fiber parameters.
- 6-Design prism coupled surface Plasmon resonance sensor.
- 7- Design grating coupled surface Plasmon resonance sensor.
- 8-Design Waveguide coupled surface Plasmon resonance sensor.
- 9- Wind Power Potential and Characteristic Analysis of the "Shaqlawah Region" Arbil/Iraq
- 10- Determining the temperature by using speed of sound.

**Teaching Courses for Undergraduate Students:**

B.Sc. Courses, Department of Physics, College of Education, Salahaddin University/Hawler, Iraq:

- 1-1st stage: Mechanics (Theory), General Physics Laboratory, Properties of Matter Laboratory, and Electricity Laboratory.
- 2-2nd Stage: Optics (Theory), Optics Laboratory and Advanced Electricity Laboratory.
- 3- 3<sup>rd</sup> stage: Electronic (Theory), Electronics Laboratory.
- 4-3<sup>rd</sup> Stage :Modern Physics(Theory), Atomic Laboratory
- 5-4th stage: Nuclear Laboratory and Illustration Laboratory.
- 6- 4<sup>th</sup> Stage : Lasers.
- 7- General Physics for Chemistry Dept. Students.
- 8- Practical Electricity and Magnetism for Physics Dept. Students.
- 9-Practical Mechanics and Properties of Matter.
- 10- Supervision of B.Sc. graduation projects in several topics for Physics Dept. Students.

## **List of publications:**

[1]– Muhamad. A. Hamad, B.T., Chiad ” self assembly fabrication of photonic crystals” Iraqi Journal of physics, Vol. N.

[2]- Muhamad Abdulla Hamad “Design CO<sub>2</sub> Molecule Gas Sensor Based On Surface Plasmon Resonance” Polytechnic Journal: Vol.7 No.4 (December 2017): Pp:30-39

[3]-Muhamad A. Hmad , Assad H. Ismail ”Radiation Exposure of leukemia blood samples and its impact on the density of RBC ,WBC , and PLT : in vitro”.

[4] Muhamad A. Hamad , Aziz A. Barzinjy “Simulation of Cu Electrodeposition from Aqueous Solution for Solar Absorption Using COMSOL Model”. Proceedings ICNS 2016, First International Conference of Natural Science

(ICNS 2016) College of Basic Education, Charmo University, Chamchamal, Sulaimani, Kurdistan-Iraq

[5] Muhamad A. Hamad , Aziz A. Barzinjy, Haidar J. Ismail, Samir M Hamad.

“Enhancement of emission and directionality of Light Emitting Diode using Surface Plasmon Resonance”. ZJPAS (2017), 29 (s4); s201-s209

[6] Omer S.shafiq, Luay hamd sleman and Muhamad A. Hamad .”nonlinear optical properties of thin film polymer [PMMA] doped dye lasing compounds rhodamin 6G and acriflavine in chloroform solvent by using dip coating system”. *Iraqi Journal of Physics, 2017 Vol.15, No.35, PP. 125-132.*

[7] Azeez A. Barzinjy<sup>1,2\*</sup> , Kadhim Q. Jabbar<sup>1</sup> , Haidar J. Ismael<sup>1</sup> , Mohammed A. Hamad<sup>1</sup> , Samir M. Hamad<sup>3</sup> “Mathematical Modeling of Charge and Discharge Process in Lithium Ion Batteries Using COMSOL Multiphysics” Polytechnic Journal: Vol.7 No.4 (December 2017): Pp:76-85

[8] Azeez Abdullah Barzinjy<sup>1,2</sup> & Haidar Jalal Ismael<sup>1</sup> & Mohammed Abdullah Hamad<sup>1</sup> Samir Mustafa Hamad<sup>3</sup> & Mudhaffer Mustafa Ameen<sup>1</sup> “

Mathematical Modeling of Mass Change in Biosensor Quartz Crystal Microbalance Using Matlab” Eurasian Journal of Science & Engineering , Volume 3, Issue 2; December, 2017

## **Administrative Work Experience:**

1-Member of Iraqi Physics and Mathmatic Syndicate, Scince1990.

2-Member of Kurdistan Physicists Syndicate, since 2006.

## **Languages**

1. **Mother Tongue:** Kurdish (perfect).
2. **Knowledge of other languages:** English, Arabic and persian.

## **Computer Skills:**

1. Operating systems: MS-DOS, Windows XP-10.
2. Languages: Basic, Quick Basic, fortran
3. General Computing: Microsoft Office 2003-2016

#### 4. Mathematics Software: Matlab.

#### **Training Courses Attended:**

1. A Training Course on the Methods of Teaching, Salahaddin University-Erbil (2000).
2. A Training Course on E-learning Salahaddin University-Erbil (2011)

#### **References:**

1-prof. **Dr. Baha T. Chiad**

Baghdad University, College of Science

Department of Physics

2-Prof. Assis. **Dr. Muzaffar Mustafa Ameen**

Salahaddin-Hawler University, College of Education,

Department of Physics

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