

Assist. Prof. Dr. Sattar Othman Hasan

MSc. in (Nuclear Physics-Gamma Ray Spectrum)

PhD. in (Electromagnetic Theory- Communications)

Physics Department/ Salahaddin University–Erbil

Kurdistan Region

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Born in Sulaimany –Kurdistant Region of Iraq **1970**

Academic Qualifications:

- 1- B. Sc. (**1987-1991**) in Physics Department, College of Education, University of Salahaddin Erbil-Iraq.
- 2- Teaching assistance (**1992-1998**) in Physics Department, College of Education, University of Salahaddin Erbil-Iraq.
- 3- M. Sc. (**1997-1999**) in Nuclear Physics- (**Analysis of Gamma Ray Spectrum**) -Department of **Physics**, College of **Science**, University of Salahaddin Erbil-Iraq.
- 4- Teaching staff from (**1999**) in Physics Department, College of Education, University of Salahaddin Erbil-Iraq.
- 5- PhD (**2004-2006**) in Electromagnetic Theory (**Microstrip Antenna**) , in Physics Department, College of Science, University of Salahaddin Erbil-Iraq.
- 6- **Lecturer** from (**31 / 5 / 2003**), in Physics Department, College of Education, University of Salahaddin Erbil-Iraq.
- 7- **Assistant Prof.** from (**12 / 3 / 2008**), in Physics Department, College of Education, University of Salahaddin Erbil-Iraq.
- 8- Supervisor of two **M.Sc.** students, in Physics Department, College of Education, University of Salahaddin Erbil-Iraq.
- 9- Member in (**7**) seven **M.Sc.** students discussion Committee.
- 10- Member in (**2**) two **Ph.D.** students discussion Committee.
- 11- From (**2000-2002**), I was a head of register unit within the college of education, Salahaddin University, Erbil-Iraq.

12- During (**2002-2003**) I was a deputy of deans of Education College, University of Salahaddin, Erbil-Iraq.

13- I was a representative of teaching staff at College of Education for about eight years during (**2000-2008**).

14- I was a dean of Hawler **Tourism** Technical Institute during the years of **2008-2010**, Erbil Polytechnique University, Erbil-Iraq.

15- I was a dean of Hawler **Technology** Institute during the years of **2010-2014**, Erbil Polytechnique University, Erbil-Iraq.

Teaching and advising

B. Sc.

No.	Subjects	College / Department	Class	Years
1.	General Theory	Agriculture /plant protection	First Class	1999-2000
2.	Quantum Theory	Education / Physics	Fourth Class	2000-2001 2000-2002
3.	Electromagnetic physics	Education / Physics	Fourth Class	2002-2003 2006-2007 2007-2008 2016-2017 2017-2018 2018-2019
4.	Calculus	Education / Physics	First Class	2006-2007 2007-2008 2014-2015 2015-2016
5.	Linear Algebra	Education / Physics	First Class	2008-2009
6.	General Mathematic	Technology institute	First Class	2010-2011
7.	Electricity and magnetism Laboratory	Education / Physics	First Class	1993-1994
8.	Advanced Electricity and magnetism Laboratory	Education / Physics	Second Class	From 1993 To 2003 And 2014-2015
9.	Matter Properties Laboratory	Education / Physics	First Class	1995-1996 1996-1997
10.	General Physics Laboratory	Education / Mathematic + Chemistry + Biology	First Class	From 1993 To 2000
11.	Atomic laboratory	Education / Physics	Third Class	1997 -1998 2006-2007 2007-2008
12.	Illustration Instrument Laboratory	Education / Physics	Fourth Class	2001-2002 2015-2016

M. Sc. & Ph.D.

No.	Subjects	College / Department	Class	Years
1.	Advance Electromagnetic Theory	Education / Physics	Master &	2007-2008
2.	Antenna Theory & Radio wave	Education / Physics	Master	2008-2009
3.	Advance Electromagnetic Theory	Education / Physics	Master	2011- 2012
4.	Advance Electromagnetic Theory	Education / Physics	Master	2012-2013
5.	Advance Electromagnetic Theory	Science / Physics	Master	2014-2015
6.	Antenna Theory & Radio wave	Science / Physics	Master	2014-2015
7.	Antenna Theory & Radio wave	Science / Physics	PH.D.	2015-2016
8.	Advance Electromagnetic Theory	Education / Physics	Ph.D	2016-2017
9.	Advance Electromagnetic Theory	Education / Physics	M.Sc.	2017-2018
10	Advanced Mathematical Physics	Education/ college	M.Sc.	2018-2019

Publications

Papers and Thesis

- [1]. Sattar O. Hasan " The Background Function Effects on the Analysis of Gamma-Ray Spectrum". M. Sc. Thesis, Coll. Sci. Univ. Salahaddin (1999).
- [2]. Sattar O. Hasan " Analysis and Design of Compact Microstrip Antenna Using Cavity Model", Ph.D. Thesis, Coll. Sci. Univ. Salahaddin (2006)..
- [3]. Sattar O. Hasan and Azad H. Karem "Study of Some Nuclear properties of Isotopes $^{96-108}\text{Ru}$, $^{102-116}\text{Pd}$, $^{110-130}\text{Xe}$, $^{166-180}\text{HF}$ ", Journal of Pure and Applied Sciences, Salhaddin University- Hawler, Vol.14, No.2, 2002 .
- [4]. Sattar O. Hasan , "Multipole Mixing Ratios for Gamma-Transition Using Constant Statistical Tensor Method for $^{92}_{40}\text{Zr}(n,n'\gamma)$ ", Journal of Pure and Applied Sciences, Salhaddin University- Hawler, Vol.16, No.1, 2004 .
- [5]. Sattar O. Hasan and Jamal W. Salman ,"Effect of Loss Tangent, Dielectric Substrate Permittivity and Thickness on the Performance of Circular Microstrip Antennas", Engineering and Development Journal, Al-Mustansiriya University- Baghdad, Vol.10, No.1, 2006 .
- [6]. Sattar O. Hasan and Jamal W. Salman "Parametric Study of the Rectangular Microstrip Antenna Using Cavity Model". Engineering and Development Journal, Al-Mustansiriya University- Baghdad, Vol.10, No.2, 2006
- [7]. Sattar O. Hasan ,Evaluation of Electromagnetic Shielding Effectiveness for Various Types and Thickness of Materials at Different Frequencies". Journal of Pure and Applied Sciences, Salhaddin University- Hawler, Vol.19, No.3, pp. 81-93, December 2007 .
- [8]. Sattar O. Hasan , "Shielding Effectiveness via Electric and Magnetic Fields", Journal of Dohuk University, Scientific and Academic, Vol.10, No.2, pp. 104-111, 2007.
- [9]. Rashad A. Hasan and Sattar O. Hasan, " Radiation characteristics of the Axial –mode helical antennas operating at the X-band frequencies. Journal of Pure and Applied Sciences, Salhaddin University- Hawler, Vol.24, No.1, 2012
- [10]. Gelara F. Hasan and Sattar O. Hasan, " Optimization of 90 and 120 dB Shielding Effectiveness for Plane Electromagnetic waves at Center Frequencies of (3 and 3000) MHz", Zanco Journal of Pure and Applied Science, Salahaddin University –Erbil, Vol.28, No.2, 2016

➤ Participating in Supervisor and Discussion Committee for MSc. and PhD. Students

1. Member in (6) Master students discussion committee.
2. Member in (2) Ph.D. Students discussion committee.
3. Supervisor of (2) Master Students in the field of antenna and communication.