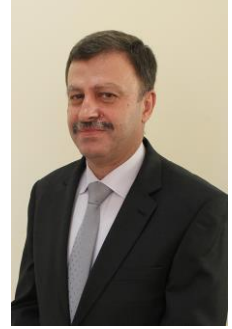


# CURRICULUM VITAE

## Personal Data:

**Full Name:** Ahmad Yousef Ahmad Omar  
**Date & Place of Birth:** April 14, 1963. Faroun, Tulkarm.  
**Nationality:** Palestinian  
**Marital Status:** Married  
**No. of Children:** 5  
**Religion:** Muslim  
**Residence Address:** Jenin-West Bank-Palestine



**Working Address:** Department of Physics  
Faculty of Arts & Sciences  
Arab American University - P. O. Box (240)  
Jenin - Palestine  
Tel: 00 – 970 – 4 – 2510801/Ext (1150)  
Fax: 00 – 970 – 4 – 2510810  
e-mail2: [ahmad.omar@aaup.edu](mailto:ahmad.omar@aaup.edu)

## Academic Qualifications :

- “ **Doctor of Philosophy “ ( Ph. D. in Physics),** Middle East Technical University (METU), Ankara, Turkey, from February 1989 to May 1993.

**Field:** Plasma Physics, Free Electron Laser.

**Thesis Title:** “Chaos In An Electromagnetically Pumped Free – Electron Laser With A Guide Magnetic Field”

- “**Master of Science “(M. Sc. in Physics),** Middle East Technical University (METU), Ankara, Turkey, from October 1986 to January 1989.

**Field:** Plasma Physics, Free Electron Laser.

**Thesis Title:** “Small Signal Gain in An Electromagnetically Pumped Free – Electron Laser (FEL) With An Addition Of Small Amplitude Backward Electromagnetic Wave”.

- “**Bachelor of Science “(B. Sc. In Physics),** An – Najah National University, Nablus, West – Bank, Palestine, from October 1981 to November 1985.

## Working Experience:

- 15/3/1989- 1/1/1994:  
Research Assistant. Department of Physics, Middle East Technical University, Ankara, Turkey.
- 1/1/1994 – 30/9/1996:  
Assistant Professor, Sana’a University, Yemen Republic.
- 15/9/1996 – 10/9/2004

Assistant Professor, Department of Physics, Faculty of Science, Zarqa Private University, Zarqa, Jordan.

- 11/9/2004 – 1/9/2010  
Assistant Professor, Department of Physics, College of Sciences, University of Hail, Hail, Saudi Arabia.
  - 1/9/2010 – 8/5/2018  
(1) Assistant Professor, Department of Physics, Faculty of Sciences, Arab American University, Jenin, West Bank, Palestine.
  - 9/5/2018 –  
(2) Associate Professor, Department of Physics, Faculty of Sciences, Arab American University, Jenin, West Bank, Palestine.
- \* Date of tenure in Arab American University: 5-6-2017.

### **Teaching Experience:**

#### **1) Courses I taught:**

General Physics (I, II, III), General Physics for The Students of Medicine, General Sciences (Class Teacher), Physics for Medical Students, Physics for Medical Sciences, Electricity & Magnetism I, Electricity & Magnetism II, Material Science, Solid State Physics, Modern Physics I, Optics & Waves, Classical Mechanics I, Classical Mechanics II, Vibrations & Waves, Electronics I, General Physics Labs. (I, II&III), Physics for Medical Students Lab, Intermediate Physics Lab. (Optics), Optics & Waves Lab, Advanced Physics Lab. I (Modern Physics), Radiation Physics Lab., Laser Physics & Its Applications, Laser, Design & Technology, Atomic and Nuclear Physics, Mathematical Physics I, Quantum Mechanics I, Practical Training in Medical Physics, Heat & Thermodynamics, Nuclear Physics, Atomic & Molecular Physics, Special Topics (Mathematical Physics III), Physics for Medical Students, Mathematics and Software Packages for Physics, Calculus III (Advanced Calculus), Plane Geometry, Linear Algebra.

#### **2) Other activities:**

- An academic supervisor for the students in S. U., Z. P. U & U.O.H& AAUJ.
- Participation in Educational Training Program, Faculty of Education, S. U., Dhamar.
- Participation in Educational Training Program, Department of Science, College of Education, U.O.H, Hail
- An establishment of the Department of Physics and participation in preparing the Medical Physics Study Plan for the Department of Physics at Z. P. U.
- Participation in preparing the Physics Study Plan for the Department of Physics at UOH.
- Participation in preparing the labs' tenders for the Department of Physics-Medical Physics, Z. P. U.
- Participation in preparing the labs tenders for the Department of Physics- UOH, (2008/2009-2009/2010).
- Participation in the preparation of Phys103 and Phys104 Lab Manuals. This Lab Manual covered part of the General Physics Labs offered by the Physics Branch, Department of Sciences, UOH, (2008/2009-2009/2010).
- Participation in the preparation of a preliminary Phys341 Lab Manual. This Lab Manual covered part of the Modern Physics Lab offered by the Physics Branch, Department of Sciences, UOH, (2008/2009-2009/2010).
- Participation in preparing and updating the Physics curriculum for the Department of Physics at AAUJ.
- Participation in the preparation of General Physics II Lab Manual (Phys106). This Lab Manual covered General Physics II experiments offered by the Department of Physics, AAUJ, 2011/2012.

- Preparing Optics & Waves Laboratory Manual. Department of Physics, AAUJ. 1<sup>st</sup> Edition, Feb 2017.

### **Administration Experience:**

- Head, Department of Physics, Z. P. U. (15/9/1997 – 1/10/1999)
- Representative for the Dep. of Physics in the Faculty of Science Council, Z. P. U. (15/9/1996 - 1/10/1999 & 17/9/2002 – 10/9/2004)
- Member in the Z. P. U. Library Committee. (15/9/1996 – 15/9/1998)
- Head, The Investigation Committee, Faculty of Science, Academic year 1999/2000.
- Head of The Organizing committee, The First Conference on Medical Physics and Its Applications, Department of physics, Zarka Private University, 24<sup>th</sup> – 26<sup>th</sup> /4/2000.
- A member in the Social committee, Faculty of Science, Z. P. U., (15/9/2000 – 15/9/2001).
- Member in the schedule committee, Faculty of Science, Z. P. U., (15/9/2001 – 15/9/2002).
- Member in the scientific committee, Faculty of Science, Z. P. U., (15/9/2001 – 15/9/2002).
- Acting Chair, Department of Physics, Z. P. U. (14/7/2002 – 5/9/2002)
- Member in the schedule committee, Faculty of Science, Z. P. U., (15/9/2002 – 15/9/2003).
- Head, Department of Physics, Z. P. U. (17/9/2002 – 10/9/2004)
- Member in the University Council in ZPU (17/9/2002 - 15/9/2003)
- Acting Dean (Occasionally during academic years 2002/2003 & 2003/2004).
- Head of the schedule committee, Faculty of Science, Z. P. U., (15/9/2003 – 15/9/2004).
- Member in the quality assurance committee, Faculty of Science, Z. P. U., (2003 /2004).
- Head of Labs Committee, Department of Science, College of Education, UOH, (2008/2009)
- Member in the Physics Study Plan Committee, UOH, (2008/2009-2009/2010).
- Member in the Nano Physics Center Committee, UOH, (2008/2009-2009/2010).
- Member in the Faculty Members Database Committee, College of Education, UOH, (2008/2009).
- Member in the Physics Labs Inventory Committee, UOH, (2008/2009-2009/2010).
- Member in the Summer Semester Schedule Committee, UOH, Summer Semester (2008/2009).
- Member in the Teaching Assistants Interview Committee, College of Education, Department of Sciences UOH, (2008/2009).
- Member in the Teaching Assistants Written Exam Committee, College of Education, Department of Sciences, UOH, (2008/2009).
- Head, Department of Physics, AAUJ. (1/9/2010 – 31/8/2015)
- Representative for the Dep. of Physics in the Faculty of Arts & Science Council, AAUJ. (1/9/2010 -21-9-2015 & 1/9/2017-31/8/2018).
- Head of Self-Assessment Committee, Department of Physics, AAUJ, (2010/2011).
- Head of Investigations Committee, Department of Physics, AAUJ, (2010/2011).
- Head of Labs Follow Up Committee, Department of Physics, AAUJ, (2011/2012 - 2014/2015).
- Head of Purchases Committee, Department of Physics, AAUJ, (2011/2012 -2014/2015).
- Head of ISO committee, Department of Physics, AAUJ, (2012/2013 -2014/2015)
- Member, Department of Physics Council, AAUJ. (2015/2016 -).
- Member in Special Investigation Committee Nominated by the Dean of Sciences, College of Sciences, AAUJ, (Fall, 2015/2016).

- Member in Purchases Committee, Department of Physics, AAUJ, (2015/2016).
- Member in Laboratories Committee, Department of Physics, AAUJ, (2015/2016).
- Member in Scientific Committee, College of Sciences, AAUJ, (2015/2016).
- Member in the University Council, AAUJ, (2015/2016).
- Member in the Scientific Committee, "Fifth Palestinian Conference on Modern Trends in Mathematics and Physics", July, 31<sup>st</sup> – August, 2<sup>nd</sup>, 2016. Department of Physics, AAUJ.
- Member in Teaching & Research Assistants Interview & Evaluation committees, Department of Physics, AAUJ (2010/2011 – 2016/2017).
- Member in Master Students Interview & Evaluation committees, Department of Physics, AAUJ (2010/2011– 2016/2017).

## **Research Activity:**

### **a) Research Interest:**

- Plasma Physics                      - Free Electron laser (FEL)                      - Photonics
- Semiconductors Physics                      - Nanoscience & Nanotechnology

### **b) Publications:**

- 1) A. Omar, "Effect of Sodium Based Transparent Binders on the Optical Properties of GaSe Thin Films". Journal of the Arab American University (AAUJ). Journal of the Arab American University, Vol (4), No.(1)/2018, p. 48-64.
- 2) A. Omar, A. F. Qasrawi, N. M. Gasanly, "Temperature effects on the structural and optical properties and dielectric dispersion in the  $\text{TlInSe}_{2x}\text{S}_{2(1-x)}$  mixed crystals ( $x=0.3$ )". Journal of Alloys and Compounds, Vol 724, P. 98-102, 15 Nov. 2017.  
**Link:** <http://www.sciencedirect.com/science/article/pii/S0925838817323459>
- 3) S. E. Algarni, A. Omar and A. F. Qasrawi, "Plasmon Interactions At The (Ag, Al)/InSe Thin Film Interfaces Designed For Dual Terahertz/Gigahertz Applications", Plasmonics, Springer, Vol 12, issue 2, P. 515-521, April 2017.  
**Link:** <http://link.springer.com/article/10.1007/s11468-016-0292-4>
- 4) Atef F. Qasrawi, Ahmad Omar, Ala' M. Azamttta and Nizami M. Gasanly, "p- TIGaSeS/n-BN heterojunction as a microwave filter and as a photovoltaic device", Physica Status Solidi A: Applications and Materials Science, Wiley, Vol.212, Issue3, P. 600-606, DOI 10.1002/pssa.201431173. March 2015.  
**Link:** <http://onlinelibrary.wiley.com/doi/10.1002/pssa.201431173/abstract>
- 5) A. Omar, "Electrons Trajectories in Electromagnetically Pumped Free Electron Laser with a Constant Reverse Guide Magnetic Field", Tr. J. Phys., Vol. 35, P. 145-152, March 2011.  
**Link:** <http://journals.tubitak.gov.tr/physics/issues/fiz-11-35-2/fiz-35-2-7-0911-47.pdf>
- 6) A. Omar, "Energy and Momentum in Electromagnetic Wiggler Free-Electron Laser with A Guide Magnetic Field ", Arabian Journal for Science and Engineering (AJSE), KFUPM, Vol. 33, No. 2A, P. 389-399, July 2008.  
**Link:** [http://ajse.kfupm.edu.sa/articles/332A\\_P.19.pdf](http://ajse.kfupm.edu.sa/articles/332A_P.19.pdf)
- 7) S. Bilikmen and A. Omar, "Chaotic Electron Trajectories in Electromagnetic Wiggler Free-Electron Laser with a Guide Magnetic Field", IL Nuovo Cimento, Springer, Vol.16D, N.5, P. 463-480, Maggio 1994.  
**Link:** <http://link.springer.com/article/10.1007/BF02463735>
- 8) A. Omar and S. Bilikmen, " Gain Enhancement in Electromagnetically Pumped Free Electron Laser with a Guide Magnetic Field ", Doğa – Tr. J. Physics, 17 (1993), P. (994-957).

### **c) Researches Proposals:**

- 1) A. Omar, "Electron Trajectories in Free Electron Lasers with Helical Wiggler and Reverse Axial Guide Magnetic Field", under investigations.
- 2) A. Omar, A. Qasrawi, "Optical and dielectric properties of the physically deposited Copper Oxide-Indium thin films", under investigations.

### **d) Participation in conferences, workshops and seminars:**

- Workshop on Magnetism Measurements and the Quality of Mediums for Information Storage, Al-Albait University, Mon. April 20, 1998.
- The First Workshop on Medical and Radiation Physics, Physics Department, Applied Science University, 3 – 4 /3/1999.
- A series of Workshops on Astronomy, Zarka Private University, 1996 – 2000.
- A. Omar, Conference Presentation: "Free Electron Lasers (FEL) and its Medical Applications". The First Conference on Medical Physics and its Medical Applications, Department of Physics, Zarqa Private University, 24-26/4/2000. Book of Abstracts, P. 63.
- Fourth Symposium on Magnetism, organized by: Center for Theoretical and Applied Physical Sciences (CTAPS), Yarmouk University, Jordan. 6 –8 Nov. 2000.
- Third Symposium on Use of Nuclear Techniques in Environmental Studies, organized by: Center for Theoretical and Applied Physical Sciences (CTAPS), Yarmouk University, Jordan. 16 – 18 Sept. 2003.
- The Second Meeting of the Colleges of Sciences Association in Arab Universities, Jordan University of Science and Technology, Jordan, 28-29 April, 2004
- Fourth Meeting of the Saudi Physical Society (SPS4), King Abdul Aziz City for Science and Technology, Riyadh, Saudi Arabia. 11-12/11/2008.
- Workshop on the presentation and discussion of general report about the evaluation of sciences programs in Palestinian Universities. Thursday 2/2/2012, National Institute of Educational Training, Ramallah, Palestine.
- Workshop on the "Challenges, Strategies, and Tools for Research Scientists". Monday, 19/11/2012, AAUJ, Jenin, Palestine.
- Workshop on the "Smart Boards". Sat, 16/3/2013, AAUJ, Jenin, Palestine.
- Workshop on "How to limit the actions and behaviors undesirable in university teaching", AAUJ, Jenin, Palestine, Dec 2014.
- Workshop on "Preparing Documents Using Latex", Sat, 18/4/2015, AAUJ, Jenin, Palestine.
- Poetry Symposium, Students Affairs Deanship, AAUJ. Sun, 20-3-2016.
- Fourth Conference on Biotechnology Research Application in Palestine, Arab American University, Jenin. Mon, 21-3-2016.
- The Second Palestinian International Conference on Materials Science and Nanotechnology (PICNM2016), An Najah National University, Nablus. Wed-Thurs. 23-24-3-2016.
- Fifth Palestinian conference on Modern Trends in Mathematics and Physics. A member in the Scientific Committee, July 31 - August 2, 2016.
- A. Omar, Conference Presentation: "Effect of Sodium Based Transparent Binders on the Optical Properties of GaSe Thin Films". The Fifth Palestinian conference on Modern Trends in Mathematics and Physics 2016. July 31 - August 2, 2016. Book of Abstracts, p. 32.
- Women Conference, AAUJ. Sat, 26-3-2016.
- First Palestinian International Conference on Peaceful Uses of Atomic Energy. Palestine Technical University-Kadoorie, 19-20 Feb 2017.

**e) Postgraduate theses committee's membership:**

- Internal member in the MSc thesis committee:  
Student Name: Hadil D. Aloushi  
Thesis Title: Electrical Investigations of Se/Ag/Se Interfaces  
Thesis Defense Date: 1-7-2018
- Internal member in the MSc thesis committee:  
Student Name: Alaa Ayman Ekmail  
Thesis Title: Thickness and Post Annealing Effects on the Structural, Optical and Dielectric Properties of Copper Oxide Thin Films  
Theses Defense Date: 30-9-2018

**Training Courses:**

- A Training Course on "Introduction to UNIX ", ZPU, Department of Computer Sciences, from June 14, 1997 to June 18, 1997. 10 hours.
- A Training Course on Methods in University Teaching, ZPU, Faculty of Education, Nov. 11, 1998 & Dec. 2, 1998. 12 hours.
- A Power Point Course, ZPU, Continuous Teaching and Community Service Center June 2001, 8 session hours
- A 10 Hour course on MATLAB 6, Department of Computer Science, ZPU, July 2002.

**Computer Skills:**

**Internet:** I am familiar with windows and internet applications.

**Computer's Languages:** Digital Fortran, C++, Matlab.

**Softwares:** Microsoft Office, Golden Grapher, Origin Grapher, SigmaPlot, Compaq Visual FORTRAN, Web Expression.

**Languages:** Arabic, English

**Hobbies:** Reading, Sports (Running, Swimming, Fitting,...)

**Referees:**

1- Prof. Dr. Mohammed El-Said, Physics Department, An-Najah National University, P.O. Box (7), Nablus, West Bank, Palestine.

Tel: 00-970-9-2325402/Ext.

Mobile: 00970-597036348

Fax: 00-970-9- 2345982

e-mail: [mkelsaid@najah.edu](mailto:mkelsaid@najah.edu)

2-Prof. Dr. Mohammed El-Haj Hasan, Dean, College of Information Technology, Amman Private University, P. O. Box (975 - 337) Al-Jbaiha, Amman, Jordan.

Tel: 00-962-6-5335166/Ext.

Fax: 00-962-6-5335169

e-mail: [HajHasan@Ammanu.edu.jo](mailto:HajHasan@Ammanu.edu.jo)

3-Prof. Dr. Emad Abuelrub, Commission for Academic Accreditation, Ministry of Higher Education and Scientific Research, P. O. Box (45133), Abu Dhabi, UAE.

Tel: 00-971-2-6951462

Mobile: 00-971-56-7433404

Fax: 00-971-2- 6428488

e-mail: [abuelrub@yahoo.com](mailto:abuelrub@yahoo.com)