**CURRICULUM VITAE**

1. **Biodata:**
2. **Name:** AMUSA, Razaq Alade
3. **Date of Birth:** 21st of January, 1962
4. **Place of Birth:** Ibadan
5. **Gender:**  Male
6. **State of Origin:** Oyo
7. **Nationality:** Nigerian
8. **Marital Status:** Married
9. **Number and Ages of Children:** Five (5); 23yrs, 21yrs, 17yrs, 15yrs & 10yrs.
10. **Religion:** Islam
11. **Contact Address:** School of Pure and Applied

Sciences, Science Laboratory

Technology Department,

The Federal Polytechnic,

P. M. B. 50,

Ilaro, Ogun State.

1. **E-Mail Address:** alade\_amusa2000@yahoo.com
2. **Telephone Number:**  08134043308
3. **Present Position:** Chief Lecturer (C/L).
4. **Institutions Attended with Dates:**

University of Ibadan, Ibadan. 2012-2018 University of Ibadan,Ibadan. 2010-2012 Olabisi Onabanjo, Ago-Iwoye. 2006-2008 University of Ibadan, Ibadan. 1988-1991 Universiy of Ibadan, Ibadan. 1983-1987
Loyola College, Ibadan. 1982-1983 Moslem Grammar School, Odinjo. Ibadan. 1976-1981 Christ Gospel Apostolic. Schl, Oke Foko. Ibadan. 1969-1974

1. **Academic Qualification with Dates:**

PhD (Theoretical Solid State) Physics 2018

M. Sc (Theoretical Solid State) Physics 2008

M. Sc. (Instrumentation) Physics 1991

B.Sc. Physics (second lower) 1987

West African School Certificate 1983

West African School Certificate 1981

Primary School Leaving Certificate 1974

1. **Professional Qualification:**

Certificate of Nigerian Institute of Physics (NIP)

1. **Membership of Learned Societies & Professional Bodies:**

Nigerian Institute of Physics

1. **Working Experience:**
	1. **Academic Experience:**
2. **Teaching Experience**

Federal Polytechnic, Ilaro 1996 – Date

Federal Government College, Ilorin 1989 - 1993

Federal Government College, Odogbolu 1993 – 1996

**ii. Courses Taught**

PYE 312 Material Science (Metals and Alloys) HNDI (SLT)

PYE 327 Physics Optics HND1 (SLT)

PYE 329 Research Methodology, HND1 (SLT)

BPH 312 Planetary Motion and Terrestrial Physics, HND1 (Surv. and Geo info.)

PYE 412 Instrumentation I HNDII (SLT)

PYE 414 Analogue Electronics II HNDII (SLT)

PYE 423 Equipment Reliability HNDII (SLT)

STP 221 Maintenance and Repair of Electronic Equipment ND II (SLT)

**iii. Research Interest:**

Solid State Physics

 Electronics Instrumentation

 Computer Programming

**iv. Academics Leadership Positions:**

External Moderator, Moshood Abiola Polytechnic, Abeokuta

 External Moderator, ICT Itori

 External Moderator, ICT Igbesa

* 1. **Administrative Experience**
		1. **Chairman** Project and Seminar Committee
		2. **Unit Head** Physics with Electronics
		3. **Membership of Committees**

Central Accreditation Committee, Department of Science Laboratory

Technology, Federal Polytechnic, Ilaro. 2007-2013

Accommodation Committee. 2nd Joint Annual National Conference

(SAS, SE, SES) 2001

Committee on Conference Book of Proceeding. 2nd Joint Annual

National Conference (SAS, SE, SES). 2001

1. **Service Outside the Federal Polytechnic, Ilaro:**

External Moderator, Moshood Abiola Polytechnic, Abeokuta

External Moderator, ICT Itori

External Moderator, ICT Igbesa

1. **Scholarship/Fellowship & Prices:**

 Best Student in Physics and Chemistry

1. **Academics Qualifications:**
	1. **Journal Publications**

**Amusa, R. A**. and Oyewande, E. O. (2016). Effect of Concentrations Variation of Aluminium on Energy gap and Optical wavelengths of AlxIn1-xSb Ternary Compounds Using Density Functional Theory. *Journal of Physical Science and Innovation,* 8 (2): 29 – 37. ISSN: 2277-0119

**Amusa, R. A.** and Oyewande, E. O. (2015). Investigations of Structural and Electronic Properties of III-Bi Semiconductor Binary Compounds. *Journal of Physical Sciences and Innovations,* 7 (2): 97-105. ISSN: 2277-0119

**Amusa, R. A**. and Oyewande, E. O. (2015). Structural, Electronics and Phonon Dispersion Relations of III-Bi Semiconductors Binary Compound. *Journal of Engineering and Applied Scientific Research*, 7 (2): 8 – 19. ISSN: 2384-6569

**Amusa, R. A**. and Oyewande, E. O. (2015). Effect of Concentration Variation of Aluminium on Energy Gaps and Spin-Orbit Splitting of AlxIn1-xSb Ternary Alloy Using Self Consistence Field Method. *Journal of Scientific and Industrial Studies,* 13 (2): ISSN: 1117-1695

**Amusa, R. A**. and Oyewande, E. O. (2012): Density Functional Theoretical Calculations and Comparisons of Phonon Dispersion Relations of Elemental Semiconductors. Journal of physical Sciences and Innovations. Vol. 4.

**Amusa, R. A**. and Oyewande, E. O. (2011): Calculations of Band-Gaps of Elemental Semiconductors Using Local Density and Generalized Gradient Approximations within Density Functional Theory, accepted for publication (Journal of Scientific and Industrial Studies,DUN395/2011)

**Amusa, R. A.** and Ojuawo, S. O. (2009): Modeling M-S Junction Depletion Region of p-n diode Using Full Depletion Analysis. Book of Proceedings of the 2nd National Conference, ASUP, FPI. (288-293).

**Amusa, R. A**. (2008) Software for Computation of Staff Salaries. A Case Study: Federal Polytechnic, Ilaro (Journal of Scientific and Industrial Studies, (4) 1 (113-119)

* 1. **Book Chapters/Book Publications:**

**Amusa, R. A. (2017).** A Compilation Study on Optics-Waves and Equipment Reliability Maintenance for Undergraduates in Tertiary Institutions, (1st ed.), Ibadan: ISBN: 978-31412-0-1 Adekins Graphic Press, 167 + vii pp

**Amusa, R. A. (2017).** Materials Science for Undergraduates in Tertiary Institutions. 1st ed. Adekins Graphic Press, Ibadan, Ibadan. ISBN: 978-3791-8-6, pgs i-vii, 1-100.

**Amusa, R. A. (2005).** Mechanics for Tertiary Institutions (2005)

Abatan, O. A, Ojo, K. R, Ajayi, M.A, **Amusa, R. A. (2001).** Introductory: Waves, Optics, Sound and Electricity

**Amusa, R. A. (2000).** Physics Made Simpler. 1st ed. Mr. B Business Ventures, Mokola. Ibadan. ISBN: pgs i-ix, 1-76.

**Amusa, R. A. (1998).** Basic and House hold Electronics

* 1. **Conference Papers:**

40th Annual Conference of Nigerian Institute of Physics, Federal University of Technology, Minna (FUTM 2017), 20th -24th November, 2017.

**Amusa, R. A** (2017). Calculation of Dieletric Constant and Energy-Gap of GaxIn1-xSb Ternary Compound Using Density Functional Theory.

13th National Conference of Academic Staff Union of Polytechnics (ASUP), Kano State Polytechnic, 7th – 10th November, 2016.

**Amusa, R. A** and Olaifa B.I (2016). Calculation of Acoustics and Optical Frequencies of In-V Binary Compounds

5th National Conference of Academic Staff Union of Polytechnics, Ilaro Chapter. Federal Polytechnic, Ilaro. Ogun-State, 16th – 19th October, 2016.

**Amusa, R. A.** and Oyewande E. O (2016). Effect of Concentration Variation of Gallium 0n Energy Gap and Optical wavelength of GaxIn1-xSb Ternary Compounds Using Density Functional Theory.

2nd International Conference On Scientific Research and Innovation, Faculty of Science, University of Ibadan, 16th – 20th March, 2015.

**Amusa, R. A.** and Oyewande, E. O (2015). Effect of Concentration Variation of Aluminum and Gallium on Energy Gaps of AlxIn1-xSb and GaxIn1-xSb Ternary alloys using Plane WaveSelf Consistence Field

2nd Interdisciplinary International Conference by Centre for Promotion of Educational and Scientific Research, University of Port-Harcourt, 19th – 22nd November, 2013.

**Amusa, R. A.** and Oyewande, E. O. (2013). Structural, Electronic and Phonon Properties of III-Bi Semiconductor Binary Compounds.

40th Annual Conference of Nigerian Institute of Physics, University of Ibadan, Ibadan, 20th -24th November, 2010.

**Amusa R.A**, Odunaike, R. K, Laoye J.A and Oberafo O.O (2010): Investigation Into The Electronic Transport Properties of Al/n-Si Schottky Diode.

40th Annual Conference of Nigerian Institute of Physics, University of Ibadan, Ibadan, 20th -24th November, 2010.

**Amusa R.A**, Odunaike R.K and Laoye J.A (2010): Current Transport Characteristics of Al-SbSi/n-Si-InHg.

5th National Conference of Academic Staff Union of Polytechnics, Ilaro Chapter. Federal Polytechnic, Ilaro. Ogun-State, 16th – 19th October, 2016.

**Amusa R.A** (2007) Design and construction of 100watt Inverter

22nd Annual Conference of Nigerian Institute of Physics, Federal University of Technology, Akure, 15th -18th September, 1999.

**Amusa R.A** and Okoye, J. (1999): Physics and the Profession: towards enhancing physics education in 3rd millennium

22nd Annual Conference of Nigerian Institute of Physics, Federal University of Technology, Akure, 15th -18th September, 1999.

Abatan O.A and **Amusa R.A** (1999): Processing and storage of Agricultural products affected by daily and seasonal varying weather climate.

22nd Annual Conference of Nigerian Institute of Physics, Federal University of Technology, Akure, 15th -18th September, 1999.

Abatan O.A and **Amusa R.A** (1999): Daily and seasonal varying electron densities of the ionosphere layers affecting agriculture in the area of agro-meteorology.

22nd Annual Conference of Nigerian Institute of Physics, Ladoke Akintola University of Technology, Ogbomoso, 15th -18th September, 1998.

**Amusa R.A** (1998): Design and construction of refractive index medium container

* 1. **Unpublished Project & Dissertation**

**B.Sc.(Hons) Physics:** Design and Construction of Simple A.M. Radio Receiver**.**

**M.Sc (Instrumentation) Physics:** Design and Construction of Digital Frequency Meter.

**M. Sc. (Solid State) Physics:** Electronic and Energy Band parameters of Al-SbSi/n-Si-InHg and Simulated Schottky Diodes.

**M.Phil/PhD (Theoretical Solid State) Physics**Energy-gap and Phonon Dispersion Relations of Elemental Semiconductors Using Density Functional Theory.

**PhD (Theoretical Solid State) Physics:** Density Functional Theory Approach to the Study of Spin-Relaxation Times of AlxIn1-xSb and GaxIn1-xSb Ternary Compounds.

* 1. **Major Research Undertaken:**

Energy Gap of GaInAs Ternary Compounds Using Density Functional Theory

1. **Community Service:**

**Baba Adini**, Olorire Central Mosque, Isale Kehinsi, Ogbere Agugu.Ibadan. 2008-date

**Akinrogun**, Baale of Ayegun, Ayegun-Olomi, Ibadan. 2015-date

**Patron**, Urwatudeen Society of Nigeria, Ayegun, Oyo State 2017-date

**Mogaji**, Alemuloe Family, Ibadan. Oyo State 2019-date

1. **Extra-Curriculum Activities:**

Footballing, Reading, Academics Research

1. **Referees:**

**Prof. Niyi Olowofela** Commissioner of Education Ministry of Education Ibadan, Oyo State.

**Dr. R.A. Oloyo,**

Director of Linkages and Affiliation,

The Federal Polytechnic, Ilaro.

**Dr. O. E. Oyewande,**

Department of Physics,

University of Ibadan, Ibadan