

CURRICULUM VITAE

1. BIODATA:

Name:	Omolola, Samuel Adeniyi
Date & Place of birth:	15 th February, 1963 Abeokuta
Gender:	Male
State of origin:	Ogun
Nationality:	Nigerian
Marital status:	Married
Number & Ages of Children:	One, Twenty eight years
Religion:	Christianity
Contact address:	Department of Electrical/Electronic Engineering Federal Polytechnic, Ilaro P.M.B 50, Ogun state.
E-mail address:	samuel.omolola@federalpolyilaro.edu.ng saomolola@gmail.com
Phone number:	08033615047
Present position:	Senior Lecturer

2. INSTITUTIONS ATTENDED WITH DATES

- i. Coventry University, United Kingdom 2016-2017
- ii. Federal University of Technology, Akure, Nigeria 1996-1999
- iii. The Federal Polytechnic, Bida, Niger state 1989-1991
- iv. The Federal Polytechnic, Ilaro, Ogun state 1986-1988
- v. St Peter's College, Olomore, Abeokuta 1979-1984

3. ACADEMIC QUALIFICATIONS WITH DATES

- i. Master of Science (MSc) in Electrical/Electronic Engineering 2017
- ii. Post Graduate Diploma (PGD) in Electrical/Electronic Engineering
(Power & Machine option) 1999
- iii. Higher National Diploma (HND) in Electrical/Electronic Engineering
(Power & Machine option) 1991
- iv. National Diploma (ND) in Electrical/Electronic Engineering 1988
- v. West African School Certificate (W.A.S.C) 1984

4. CAREER PROGRESSION IN THE FEDERAL POLYTECHNIC, ILARO, OGUN STATE

- i. Higher Instructor 21st June, 1993
- ii. Senior Instructor January 1997
- iii. Principal Instructor January 2000
- iv. Lecturer II January 2001
- v. Principal Instructor I January 2007
- vi. Assistance Chief Instructor January 2010
- vii. Chief Instructor January 2013
- viii. Senior Lecturer July 2021

5. MEMBERSHIP OF LEARNED SOCIETIES (PROFESSIONAL BODIES)

- i. Member, Nigerian Institution of Professional Engineers and Scientist (NIPES) 2020
- ii. Member, International Association of Engineers (MIAENG) 2020
- iii. Member, Council for the Regulation of Engineering Practice in Nigeria (COREN Registered) 2018
- iv. Member, Nigerian Society of Engineers (MNSE) 2007
- v. Member, Nigerian Institute of Electrical/Electronics Engineering (MNIEEE) 2007
- vi. Member, Nigerian Institute of Engineering Management (MNIEM) 2003

6. WORKING EXPERIENCE

a. ACADEMIC EXPERIENCE:

- i. Instructing and Teaching of Electrical Courses during National Youth Service Corps (NYSC) at Nigerian Naval Technical Training Centre, Sapele, Delta State. **1991-1992**
- ii. Teaching Experience since 1993 to date at Federal Polytechnic, Ilaro

Courses taught:

- a. Electrical Engineering Science
- b. Electrical Power System
- c. Electrical Circuit Theory
- d. Control Engineering System
- e. Electrical Machine IV
- f. General Engineering Mathematics
- g. Conduction, Supervision & Evaluation of students Practical

- iii. **SPECIALIZATION:** Power System Engineering
- iv. **RESEARCH INTEREST:** Renewable Energy
- v. **RANK/STATUS:** Senior Lecturer

b. ADMINISTRATIVE EXPERIENCE

- i. Head of Department (HOD), Department of Electrical/Electronics Engineering
- ii. Unit Head Electrical Power Unit
- iii. Member, Committee on the Formulation of the Federal Polytechnic, Ilaro Servicom Charter
- iv. Chairman, Logistic and Venue Sub-Committee, School of Engineering, 2nd National Conference. Federal Polytechnic, Ilaro
- v. Chairman, Exhibition and Entertainment Committee, School of Engineering 4th National Conference. Federal Polytechnic, Ilaro
- vi. Member, Guidance and Counselling, Federal Polytechnic, Ilaro
- vi. Member, Polytechnic Committee on Students Union Electoral Commission
- vii. Departmental Examination Officer 1996-2001

7. ACADEMIC PUBLICATIONS

a. JOURNAL PUBLICATIONS

- i. *Adelakun, N.O and Omolola, S.A (2022), Development and Testing of Arduino Timer Sucket, Accepted for publication at Journal of Information Technology and Computer Engineering (JITCE).*
- ii. *Adelakun,N.O; Omolola, S.A; Mosaku, A.O and Adebola, M.S (2022), Empirical Study on Electronic learning System: Benefits, Challenges and Prospects. International Journal of Science Education and Cultural Studies (IJSECS).Volume 1 No.2September 2022.*
- iii. *Adelakun, N.O; Olanipekun, B.A and Omolola, S.A (2021). Design and Testing of Hybrid Distribution Board, ITEGAM Journal of Engineering and Technology for IndustrialApplications,Manaus,v.7n.32,Pp39-43.Nov/Dec, <https://doi.org/10.5935/jetia.v7i32.788>*
- iv. *Okoye, C.U. and Omolola, S.A (2020). Safety-Related Issues in Installation, Maintenance and Use of Electrical Equipment and Precautions. **Proceedings of the 1st National Conference, Nigerian Society of Engineers, NSE Ilaro Branch, The Federal Polytechnic, Ilaro.***
- v. *Afunlehin O.A. and Omolola, S.A (2020). Design of Automatic Hand Sanitizing Dispenser System for Multi-Users. **Proceedings of the 1st National Conference, Nigerian Society of Engineers, NSE Ilaro Branch, The Federal Polytechnic, Ilaro.***
- vi. *Adelakun, N.O and Omolola, S.A (2020). A Pragmatic Study on E-Learning System for Higher Education in Developing Countries, **Proceedings of the 1st National Conference, Nigerian Society of Engineers, NSE Ilaro Branch, The Federal Polytechnic, Ilaro.***
- vii. *Olowofela, S.S; Omolola, S.A and Adelakun, N.O (2020). Earth Resistance Measurements a Panacea to Improper Grounding System: A case study of Ilaro Township. **Proceedings of the 2nd International Conference, The Federal Polytechnic, Ilaro.***
- viii. *Adetona, S.O; Hassan E; Salawu, R.I, Omolola, S.A; (2020). Development of Examination Seating Arrangement App. *ABUAD Journal of Engineering and Development (AJERD)*, Volume 3, Issue 1.*
- ix. *Adetona, S. O; Esenwa, E. P and Omolola, S. A. (2020). The Effect of Induction Furnace on Electric Distribution Network. *Iconic Research and Engineering Journals IRE Journals*, Volume 3 issue 7, 93-98*
- x. ***Omolola, S.A** and Adelakun, N. O. (2019). The Relevance of Doubly-Fed Induction Generator (DFIG) in Modelling and Simulation of a Grid Connected Based Wind Turbine System.*
- xi. *Okoye, C. U; **Omolola, S. A;** Adelakun, N. O and Bitrus, I (2019). Retooling Nigeria’s Electricity Generation Sub-System for Sustainable Grid Operation. *International Journal of Innovations in Engineering Research and Technology IJIERT*. Volume 6 Issue 12*
- xii. *Okoye, C.U and **Omolola, S.A** (2019). A Study and Evaluation of Power Outages on 132KV Transmission Network in Nigeria for Grid Security. *International Journal of Engineering and Science IJES*. 8(11), 53-55*

- xiii. **Omolola, S.A** and Alausa, D.W.S (2018). The effect of Doubly-Fed Induction Generator (DFIG) based Wind Turbine and its Application. *IISTE Journal of Energy Technologies and Policy* Volume 8, Issue 3, 99 – 109
- xiv. Adeniji, O.A; Olowofela, S.S and **Omolola, S. A.** (2016). Application of STEP-B Equipment: Investigating the Performance Characteristics of a Shaded-Pole Motor, *Journal of Academic Staff Union of Polytechnics JASUP*, Volume 1, Issue 1&2. 101-107.

b. BOOK CHAPTERS/BOOK PUBLICATIONS

- i Omolola, S.A (2002) ‘Easy approach to electric circuit theory’. Volume One, Adex production, Ogun State. Nigeria
- ii Omolola, S.A (2004) ‘Easy approach to electric circuit theory’. Volume Two, Adex Production, Ogun State, Nigeria.
- iii Omolola, S.A (2006) ‘Easy approach to Control Engineering System One’. Adex Production, Ogun State, Nigeria.

c. CONFERENCE PAPERS

- i. Adedokun, N.O; **Omolola, S.A** and Olajide, M.B (2022). Off-Grid Renewable Energy Transition in selected countries in Africa: Challenges and Opportunities for sustainable Development, Accepted for presentation at the 2nd Malaysia Sustainability University Network National Conference 2022, December 6th and 7th 2022, Universiti Putra Malaysia, Malaysia.
- ii. Adedokun, N.O; Oloruko-Oba, A.A and **Omolola, S.A (2022)**, Absence of Mentoring and Ethnic Bigotry: A Quandary in the Education sector, Paper presented at the 3rd International Conference on Innovative Trends in Business and Technology (Icitbt 2022), October 28th and 29th , Innovative Knowledge Sharing Platform (IKSP) and Sindh Agriculture University, Munchen, Germany.
- iii. Afunlehin, O.A and **Omolola, S.A (2022)** Reviews on Issues, Challenges, Objectives of TVET and prospects for Sustainable Engineering Professions in Nigeria. A paper presented at 3rd International Conference, Federal Polytechnic Ilaro August 15th-17th, 2022.
- iv. Adedokun, N.O and **Omolola, S.A** (2021). The Importance of Electrical Service Engineer in Building Services, Paper presented at the 5th National Conference on Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 in Nigeria, November 8th -11th 2021. The Federal Polytechnic, Ilaro, Ogun State, Nigeria.
- v. Olowofela, S.S and **Omolola, S.A** (2021). Development and Testing of a Power System Distribution Line Experimental Training Module, Paper presented at the 5th National Conference on Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 in Nigeria, November 8th -11th, 2021. School of Engineering, The Federal Polytechnic, Ilaro, Ogun State, Nigeria.
- vi. Samuel A. **Omolola** and Najeem O. Adedokun (2021). Solar Energy Potential in some selected Countries in Africa: Challenges and The Way Forward, Paper presented at Conference on Engineering Research, Technology Innovation and Practice, Faculty of Engineering, University of Nigeria, Nsukka, Nigeria.

- vii Afunlehin, O.A and **Omolola, S.A** (2021). Investigating the performance of Rooftop and optimization of Efficiency of photovoltaic system. Paper presented at the 5th National Conference on Impact of Engineering and Technological Advancement Towards Achieving SDG 2030 in Nigeria, November 8th -11th, 2021. School of Engineering, The Federal Polytechnic, Ilaro, Ogun State, Nigeria.
- viii Adelakun, N.O; **Omolola, S.A** and Oloruko-Oba, A.A. (2020). The Impact of Covid-19 on Education System in Nigeria During and After the Pandemic: An Engineering Perspective. A paper presented at the 1st Multi-Disciplinary International Virtual Conference, Centre for Distance & E-Learning, University of Nigeria, Nsukka.
- ix Okoye, C.U. and **Omolola, S.A** (2020). Safety-Related Issues in Installation, Maintenance and Use of Electrical Equipment and Precautions. A paper presented at the 1st National Conference, Nigerian Society of Engineers, NSE Ilaro Branch, The Federal Polytechnic, Ilaro.
- x Afunlehin O.A. and **Omolola, S.A** (2020). Design of Automatic Hand Sanitizing Dispenser System for Multi-Users. A paper presented at the 1st National Conference, Nigerian Society of Engineers, NSE Ilaro Branch, The Federal Polytechnic, Ilaro.
- xi Adelakun, N.O and **Omolola, S.A** (2020). A Pragmatic Study on E-Learning System for Higher Education in Developing Countries, A paper presented at the 1st National Conference, Nigerian Society of Engineers, NSE Ilaro Branch, The Federal Polytechnic, Ilaro.
- xii Olowofela, S.S; **Omolola, S.A** and Adelakun, N.O (2020). Earth Resistance Measurements a Panacea to Improper Grounding System: A case study of Ilaro Township. A paper presented at the 2nd International Conference on Emerging Trends in TVET as a Contributor to Economic Transformation for Global Competitiveness, The Federal Polytechnic, Ilaro.
- xiii **Omolola, S. A.** and Adeniji, O.A. (2019) Feasibility Study on Resilient Renewable Energy Infrastructure for Academic Institutions: A Case Study of Engineering Staff Building at Federal Polytechnic, Ilaro, at Nigerian Society of Engineers (NSE) National Conference, Kano, Nigeria.
- xiv **Omolola, S.A** and Adebessin, A.A (2019). ‘The Design and Construction of a Caution Light System for the Prevention of Multiple Road Accident’. A paper presented at the School of Engineering 4th National Engineering Conference, Federal Polytechnic, Ilaro.
- xv Olowofela, S.S and **Omolola, S.A** (2019). ‘Solar Photovoltaic System: Investigation of the Performance Characteristics of an MPPT Charge Controller’. A paper presented at the School of Engineering 4th National Engineering Conference, Federal Polytechnic, Ilaro.
- xvi Adeniji,O.A and **Omolola,S.A** (2018). ‘Active power loss minimization in transmission system using UPFC’. A paper presented at 1st International Conference and Exhibition on Technological Innovation and Global Competitiveness. Federal Polytechnic, Ilaro, Nigeria.
- xvii Adetona,S.O; Esenwa, E.P and **Omolola, S.A** (2018) ‘The effect of induction furnace on electric distribution grid’. A paper presented at 1st International Conference and Exhibition on Technological Innovation and Global Competitiveness. Federal Polytechnic, Ilaro Nigeria.

- xviii Adeniji, O.A; **Omolola, S. A.** and Olowofela, S.S (2015). Application of STEP-B Equipment: Investigating the Performance Characteristics of a Shaded-Pole Motor. Academic Staff Union of Polytechnic (ASUP) National Conference, Zone C Ilaro
- xix Adeniji, O.A; **Omolola, S.A;** Olowofela, S.S and Mbamalukem, P.O (2012) ‘Facts devices: A new approach to power transmission control in Nigeria’. A paper presented at the School of Engineering 2nd National Engineering Conference, Federal Polytechnic, Ilaro.
- xx Oloyede, E.O; **Omolola, S.A;** Adetona, Z.A (2012) ‘Harnessing available Streams for small hydro electric plants’. A paper presented at the School of Engineering 2nd National Engineering Conference, Federal Polytechnic, Ilaro.
- xxi **Omolola, S.A** and Adetona, S.O (2006) ‘Vocational Technical Education as a pivot for poverty alleviation’. A paper presented at the Academic staff union of polytechnic (ASUP) conference held at the Federal Polytechnic, Ilaro, Nigeria.

c. UNPUBLISHED PROJECTS & DISSERTATION WITH DATES

- i. Application of static var compensator and thyristor control series compensator to power systems (reactive power compensation) 2014
- ii Design and Construction of Solar Powered Lamp 2012
- iii Design and Construction of 1KVA inverter 2012
- iv Design and Construction of Three-Phase Automatic Change Over Switch 2010
- v Design and Construction of Transformer Experimental Module
- vi. Design and Construction of 150W, 4-input high fidelity audio amplifier 2010
PGD Project, Federal University of Technology, Akure, Nigeria. 1999
- vii. Experimental Performance of Three Phase Induction Motor 1991

d. MAJOR RESEARCH UNDERTAKEN

- i. The study and modelling of Doubly-Fed Induction Generator (DFIG) based Wind Turbine and its application.
- ii. Application of Static Var Compensator and Thyristor Control Series Compensator to Power Systems (Reactive Power Compensation).

f. TRAINING/OPERATIONAL COURSES ATTENDED WITH DATES

- i. A Seminar Organized by the Institution of Engineering and Technology (IET), United Kingdom, on Proving Generators on Grid Code Compliance. **Nov 2016**
- ii. A Seminar Organized by the Institution of Engineering and Technology (IET), United Kingdom on Grid connected Energy Storage Research and the Willenhall Tested Facility. **Oct 2016**
- iii. A Workshop on IT Training by RS Components/University on Design Spark PCB and Design Spark Mechanical based on the Proven Teaching Material supplied by RS Components, United Kingdom. **June 2016**
- iv. A Five-day workshop on writing of Laboratory of Manuals in Electrical/Electronics Engineering organized by Science and Technology Education in Post Basic (STEP B) at Federal Polytechnic, Ilaro **August 2012**
- v. A Two-week workshop on Photovoltaic (Solar Energy) Education Training for Lecturers/Technologists in Nigerian Polytechnics and Specialized Technical Institutions organized by National Board for Technical Education (NBTE) at the Unesco-Nigeria TVE Centre of excellence, Kaduna. **April 2010**

- vi. A Two-months in-house Computer Training programme organized by the Department of Electrical/Electronics Engineering, Federal Polytechnic, Ilaro **Feb 2010**

8. EXHIBITION

- i. Design and Construction of an Automatic 3- Phase Change Over Switch. Exhibited during Auchi 2012 Polytechnic Exposition. **Feb 2012**
- ii. Construction of a fuelless Generator, exhibited during Abuja 2012 National Education Innovation Exhibited. **Nov 2012**

9. COMMUNITY SERVICE

Chairman, Joint Security Committee, Joint Communities, Olomore, Abeokuta, Ogun State, Nigeria.

10. EXTRA CURRICULAR ACTIVITIES

Playing Table-Tennis and Travelling

11. REFERENCES

1. HRH Oba Michael Babalola
Onijale of Ijale-papa
Ogun State
08023269423
2. Dr Adesoji Adebayo
Federal Medical Centre
Idi-aba, Abeokuta
08033489747
3. Dr S.A Odunlami
Department of Mechanical Engineering
Federal Polytechnic, Ilaro.
08033806672