

**THE FEDERAL POLYTECHNIC, OFFA  
APPROVED FORMAT FOR CURRICULUM VITAE  
ACADEMIC STAFF**

**A. NAME: (Underline Surname): JIMOH ABDULRAMON AROYEHUN**

Age Next Birthday: 38

Department: ELECTRICAL & ELECTRONICS ENGINEERING

Date of First Appointment at Federal Polytechnic Offa: 11/03/2013

**B. PRESENT STATUS**

Present Salary: (Academic Staff, Lecturer I) CONPCASS 06/02

Date of present appointment: 01/01/2023

**C. INSTITUTIONS ATTENDED UNIVERSITY/POLYTECHNIC EDUCATION (WITH DATES)**

- a. University of Ilorin 2013 – 2018
- b. National Teachers` Institute 2011 - 2012
- c. University of Ilorin 2001 – 2006

**SECONDARY OR TECHNICAL EDUCATION (WITH DATES)**

- a. Alade college, Ajasse-Ipo, kwara State 1999 – 2001
- b. Offa Grammar School, Offa, Kwara State 1996 – 1999

**PRIMARY EDUCATION (WITH DATE)**

- a. St. Cyprian Primary School, Offa, Kwara State 1990 – 1995

**D. ACADEMIC QUALIFICATION (WITH DATES)**

- a) M.ENG. (ELECTRICAL AND ELECTRONICS ENGINEERING) **June,2018.**
- b) Post Graduate Diploma in Education  
National teachers` Institute 4<sup>th</sup> June, 2013.  
(Affiliated to Usman Danfodiyo University, Sokoto)
- c) Certificate of National service  
National Youth Service Corps 5<sup>th</sup> March, 2008.
- d) B.ENG with second Class Honours  
(Upper Division) in Electrical Engineering 3<sup>rd</sup> Dec., 2006.
- e) Senior School Certificate June, 2001.
- f) Certificate of primary education October, 1995.

**E. SCHOLARSHIP AND PRIZES (AT UNIVERSITY, SECONDARY OR  
PRIMARY LEVEL) AWARDS:**

- a) TETFund Institution-Based Research Grant (IBR): 19<sup>th</sup> September, 2017

- b) Islamic Development Bank Scholarship: June, 2003 to July, 2006
- c) Overall Best Student in JSS 1 at Anglican College of Commerce in 1996

**F. TRAINING PROGRAMME ATTENDED (STATE PERIOD OF TRAINING AND COURSE TAKEN WITH DATES)**

- a. 5-day training on International Certificate of Digital literacy (ICDL) modules: Presentation, ICT in Education, Online Collaboration and IT security; conducted by FOZY Global Concepts held from 24<sup>th</sup> -28<sup>th</sup> of August, 2020 at Federal Polytechnic Offa, Kwara State Nigeria.
- b. A Course on Let`s Break the Chain of COVID-19 Infection, conducted by The Mohammed Bin Rashid university of Medicine and health Sciences, as part of MBRU community Immunity Ambassador program on the 21<sup>st</sup> of April, 2021.
- c. One-day workshop on APPLICATION of MATLAB TO ENGINEERING MATHEMATICAL ANALYSIS, held at the Federal Polytechnic, Offa; on **9<sup>th</sup> Sept., 2014.**
- d. Workshop on Entrepreneurship Development and Curriculum Redesign for Sustainable Skill Acquisition and Self-Reliance held at Federal Polytechnic Offa on **12<sup>th</sup> April, 2013.**
- e. Teaching and Learning of New Concepts and Methods in UBE Curriculum conducted by Learn Africa Plc at Offa Grammar School, Offa on **19<sup>th</sup> June, 2012.**

**G. HONOURS/DISTINCTIONS AND MEMBERSHIP OF LEARNED/PROFESSIONAL SOCIETY**

- a) Registered Electrical Engineer (R.51362), Engr., by The Council for the Regulation of Engineering in Nigeria (**COREN**) on the **12<sup>th</sup> September, 2019.**
- b) International Certificate of Digital Literacy (ICDL) in **Presentation**, conducted by FOZY Global Concepts held from 24<sup>th</sup> -28<sup>th</sup> of August, 2020. Sponsored by Tertiary Education Trust Fund (tetfund).
- c) International Certificate of Digital Literacy (ICDL) in **Information and Communication Technology (ICT) in Education**, conducted by FOZY Global Concepts held from 24<sup>th</sup> -28<sup>th</sup> of August, 2020. Sponsored by Tertiary Education Trust Fund (tetfund).
- d) International Certificate of Digital Literacy (ICDL) in **Online Collaboration**, conducted by FOZY Global Concepts held from 24<sup>th</sup> -28<sup>th</sup> of August, 2020. Sponsored by Tertiary Education Trust Fund (tetfund).

- e) International Certificate of Digital Literacy (ICDL) in **IT security**, conducted by FOZY Global Concepts held from 24<sup>th</sup> -28<sup>th</sup> of August, 2020. Sponsored by Tertiary Education Trust Fund (tetfund).

## **H. EXPERIENCE SINCE BASIC QUALIFICATION**

### **❖ WORK EXPERIENCE AT FEDERAL POLYTECHNIC OFFA**

- (a) Federal Polytechnic, Offa  
Lecturer I: Jan., 2023 till date  
Lecturer II: July, 2019 to Dec., 2022  
Lecturer III: July: 2016 – June, 2019  
Assistant Lecturer: March, 2013 – June, 2016
- (b) Degree Coordinator: March, 2023 till date
- (c) HND PROJECT CORDINATOR: Sept., 2021 – March, 2023
- (d) DEPARTMENTAL EXAMINATION OFFICER: APRIL, 2019 – Sept, 2021
- (e) Reviewer for Nigerian Journal of Technology (NIJOTECH), [www.nijotech.com](http://www.nijotech.com).  
**2021 till Date.**
- (f) Reviewer for Nigerian Journal of Technological Development (NJTD), [www.njtd.com.ng](http://www.njtd.com.ng), currently indexed in Google Scholar, Scopus, African Journals Online (AJOL), Directory of Open Access journals (DOAJ), DRJI. A quarterly publication of Faculty of Engineering & Technology, University of Ilorin, Ilorin, Nigeria. **2021 till date**
- (g) Adjunct lecturer, Federal University of Technology, Minna, Directorate for Collaborations, Affiliations and linkages, in affiliated Institution (Federal Polytechnic Offa). <http://www.futminna.edu.ng/cal>. **26<sup>th</sup> of May, 2021.**
- (h) Adjunct lecturer, Federal Polytechnic Offa in Affiliation with Federal University of OYE-EKITI, Directorate of Affiliate Degree programmes and Industrial collaborations
- (i) Delegate of Academic Staff Union of polytechnics, Federal Polytechnic Offa Chapter for the 16<sup>th</sup> National Delegates Conference held at Event Hall, Orchid Hotels Asaba. **6<sup>th</sup> - 10<sup>th</sup> of December, 2021.**
- (j) Member of Conference Committee for the 6<sup>th</sup> National Engineering Conference (ETPANISC 2022) organised by School of Engineering and Technology, The Federal Polytechnic, Offa.
- (k) Secretary of Sub-committee on Accreditation Exercise (Management liaison/Finance/Linkages). August, 2020
- (l) **Project Co-ordinator from JULY, 2017 – March, 2019**

(m) Entrepreneurship Courses: Appointment as Trainer, 23<sup>rd</sup> October, 2015

(n) Departmental Staff Recorder from **Jan., 2015 – June, 2017**

**❖ PREVIOUS WORK EXPERIENCE**

**Physics Lecturer** – School of Preliminary studies, A' level Cambridge Centre, Offa, kwara State: **April, 2008 – October, 2011**

- Responsible for preparing learning materials
- Responsible for the Departmental Administrative task
- Involved in the set-up of exams
- Providing mentoring, advice and support to students.
- Involved in recruitment exercise

**I. RESEARCH INTEREST OR COMMISSIONED PROJECTS COMPLETED**

- (a) Electrical Machine and Power System
- (b) Renewable Energy System
- (c) Modelling and Simulation of Solar Power System
- (d) Installation of Low Voltage Distribution Power Line at the Department of Electrical and Electronics Engineering, Federal Polytechnic Offa, Kwara State, Nigeria (2021).
- (e) Installation of Solar Powered street Lighting at the Department of Electrical and Electronics Engineering, Federal Polytechnic Offa, Kwara State, Nigeria (2018).

**J. PUBLICATION (TEXTBOOKS)**

- (a) JIMOH, A.A. (2022) Electrical Power System, published by Ahlan Wasah-Lan Printing Press, Offa, Nigeria

**K. JOURNALS**

**[1] Contingency Analysis of Transmission Line Outage in a 9-Bus Power System using Power World Simulator.** International Journal of Engineering Processing & Safety Research (IJEPSR), published by Cambridge Research and Publications; Vol. 24 No. 5; pp 195-206; March, 2022; ISSN-2339-7310(*print*).  
[www.cambridgenigeriapub.com](http://www.cambridgenigeriapub.com)

**[2] Enhancement of Second Level Automated Teller Machine Authentication using Radio Frequency identification and Fingerprint.** International Journal of Engineering and Technology Research(IJETR) published by Cambridge

Research and publications; *IJETR ISSN-2329-7309*(print); Vol. 21 No. 5; June, 2021; pp. 63-71.

- [3] **A Short-Term Load Forecasting Using Artificial Neural Network: A case Study of Ganmo 132/33Kv Transmission Sub-Station.** ASUP Journal of Innovative Research and Technology (AJIRT), A publication of Academic Staff Union of Polytechnics Federal Polytechnic Offa Chapter, Vol. 2 Number 2; December, 2020; pp. 146-152.
- [4] **Electricity Load Forecasting Using Cubic Regression.** The Edifice: Journal of Generic Academia, The Federal Polytechnic, Offa; Vol. 9 No. 1, January, 2021; pp.11-17.
- [5] **A Review of Smart Grids Deployment Issues in Developing Countries.** Arid Zone Journal of Engineering, Technology and Environment, December, 2017; Vol. 13(6):858-867. [www.azojete.com.ng](http://www.azojete.com.ng).
- [6] **Modelling of Photovoltaic Module for output performance prediction in heterogeneous weather conditions.** ASUP Journal of Innovative Research and Technology, a Publication of Federal Polytechnic Offa Chapter, 2019.
- [7] **Sizing of Wind powered Axial Flux Permanent Magnet Alternator Using Analytical Approach.** Nigerian Journal of Technology (NIJOTECH), Vol.35, No.4, October 2016, pp. 919-925. [www.nijotech.com](http://www.nijotech.com)

## L. **MAJOR CONFERENCES ATTENDED WITH PAPER READ/SEMINAR PAPERS**

- [1] 6<sup>th</sup> National Conference on Engineering and Technology: Panacea to National Insecurity and Socio-Economic Recovery in a Post COVID-19 World (ETPANISC) ,2(1): 24<sup>th</sup> -26<sup>th</sup> May, 2022, held at Federal Polytechnic Offa, Kwara State, Nigeria: **Maximum Power Point Tracking using Incremental Conductance Algorithm for Optimal Performance of Solar Photovoltaic System.**
- [2] 25<sup>th</sup> Multidisciplinary Academic Conference Proceedings of Mediterranean Research and Publications, International on Sub-Sahara African Sustainable Development: Multidisciplinary Approach, Vol. 25 No. 1, 29<sup>th</sup> April, 2022; pp. 65-73; University of Maiduguri, Borno State, Nigeria: **Development and Implementation of Global System for Mobile Communication based Home Automation.**
- [3] 8<sup>th</sup> National Conference of the School of Applied Sciences and Technology, held at the Federal Polytechnic, Offa, Kwara State, Nigeria, 23<sup>rd</sup> – 25<sup>th</sup> of November, 2021:

## **Development of Fingerprint based Student's Attendance Management System using Arduino.**

- [4] 3<sup>rd</sup> SET Annual International Conference 2021 [SAINCONF 2021] on Engineering and Innovation Technology; held at Federal Polytechnic Ede from 8<sup>th</sup> – 11<sup>th</sup> November, 2021. [www.setridc.com](http://www.setridc.com) : **Optimal Dispatch of Power Generation by Iterative Technique using Gradient Method.**
- [5] 5<sup>th</sup> National Academic Conference 2021, Academic Staff Union of Polytechnics Zone “C” held at Federal Polytechnic Offa, Kwara State, August 3<sup>rd</sup> -6<sup>th</sup> 2021: **Modelling and Simulation of Perturb & Observe Maximum Power Point Controller for Photovoltaic System.**
- [6] 5<sup>th</sup> National Academic Conference 2021, Academic Staff Union of Polytechnics Zone “C” held at Federal Polytechnic Offa, Kwara State, August 3<sup>rd</sup> -6<sup>th</sup> 2021: **Camera-Based Yoruba Document Reader: STE –Based Solution to Limitations of Concatenative Synthesis.**
- [7] 1<sup>st</sup> International Conference (Virtual), Academic Staff Union of Polytechnics(ASUP) Nigeria, held at Federal Polytechnic, Offa Chapter; 13<sup>th</sup> – 15<sup>th</sup> of October, 2021: **Short Term Load Forecasting using Artificial Neural Network: A Case Study of Ganmo 132/33kV Transmission Sub-Station.**
- [8] Proceedings of the 20<sup>th</sup> Academic Conference on Transformation Agenda for Third World Communities: Multidisciplinary Approach. Vol. 21, No. 1; 30<sup>th</sup> April, 2020; held at 1000 Capacity Hall, Abubakar Tafawa Balewa University, Yelwa Campus ATBU, Bauchi, Bauchi State, Nigeria. [www.africanscholarpub.com](http://www.africanscholarpub.com) : **Covid-19: Leveraging Dynamic Spectrum Access for Enhanced wireless communication during lockdown.**
- [9] 5<sup>th</sup> National Conference on Impact of Technological Advancement on Economic Diversification and Development in Nigeria, School of Engineering, held at Federal Polytechnic, Offa, Kwara State, Nigeria, 1(1): 334-341; 26<sup>th</sup> – 28<sup>th</sup> Feb, 2018. [newtonjournalsoe.fpo.edu.ng](http://newtonjournalsoe.fpo.edu.ng) : **MATLAB-Based Program for Solar Cell Internal Parameters Extraction.**
- [10] 5<sup>th</sup> National Conference on Impact of Technological Advancement on Economic Diversification and Development in Nigeria, School of Engineering, held at Federal Polytechnic, Offa, Kwara State, Nigeria, 1(1); 26<sup>th</sup> – 28<sup>th</sup> Feb, 2018. [newtonjournalsoe.fpo.edu.ng](http://newtonjournalsoe.fpo.edu.ng) : **Modelling of Photovoltaic Module for Output Performance Prediction in Different Weather Conditions.**
- [11] 7<sup>th</sup> National conference on Science, Technology and Entrepreneurship: Bedrock for Economic Transformation and Solution to Youth unrest, School of

Applied Science and Technology, held at Federal Polytechnic, Offa, Kwara State, Nigeria, 20<sup>th</sup> -22<sup>nd</sup> Nov., 2018: **Sizing of Battery-Based Solar Power System using MATLAB software.**

**M. COMMUNITY DEVELOPMENT**

- (a) **Member, OLOWONSOKE/ NAWAIR-UD-DEEN Vigilante Group (2020), Offa, Kwara State, Nigeria.**