CURRICULUM VITAE

SECTION A:- GENERAL INFORMATION

(a) NAME:- HARUNA MUSA

(b) DATE AND PLACE OF BIRTH:
11th October, 1963
Hadejia,
Hadejia Local Govt. Area,
Jigawa State

(c) MARITAL STATUS:
Married with Children

(d) NATIONALITY:- Nigerian

(e) PERMANENT HOME ADDRESS:
255, Tudun Maliki Qtrs,
Off Masallacin Murtala Street, Kano.

(f) CURRENT POSTAL ADDRESS:
Dept. of Mechatronics Engineering,
Bayero University,
Kano.
Nigeria

(g) EMAIL ADDRESS: harunamusa2@yahoo.co.uk
hmusa.mct@buk.edu.ng

(h) TELEPHONE: +234 (0) 8037052300 (Mobile)

SECTION B:- QUALIFICATIONS AND EXPERIENCE

(a) ACADEMIC QUALIFICATIONS

1. Bayero University, Kano; Doctor of Philosophy (Ph.D), Electric Engineering (**2014).**
2. University of Lagos; Master of Science (M. Sc.), Electrical Engineering, **(1992).**
3. Bayero University, Kano; Bachelor of Engineering (B.Eng.), Electrical Engineering, Second Class Honours, Upper Division, **(1988).**

(b) PROFESSIONAL QUALIFICATIONS

1. Nigerian Society of Engineers; Corporate Member, (MNSE), **Reg. No. 06819 (1994)**

2. Council for the Regulation of Engineering in Nigeria (COREN), Registered Electrical Engineer, **Reg. No. 12052 (2006)**

(c) TEACHING AND PROFESSIONAL EXPERIENCE

DATE	POSITION	EMPLOYER
1988-1989	National Youth Service	Obudu Local Govt. Cross River State
Aug. 1989– Oct. 1989	Maintenance Engineer	Nigerian Spinners & Dyers Ltd, Kano
Nov. 1989– Oct. 1991	Graduate Assistant	Bayero University , Kano
Jan. 1991 – Oct. 1991	Part-Time Lab Demonstrator	University Of Lagos
Oct. 1991– Sept. 1993	Assistant Lecturer	Bayero University , Kano
Oct. 1993- Dec. 2000	GM Maintenance	Nigerian Spinners & Dyers Ltd, Kano
Jan. 2001– Sept. 2001	Lecturer II	Bayero University , Kano
Oct. 2001– Sept. 2006	Lecturer I	Bayero University , Kano
Oct.2006 – Sept. 2015	Senior Lecturer	Bayero University , Kano
0ct.2015- Date	Associate Professor	Bayero University , Kano
2006-2011	Visiting Lecturer	Kano University of Science and Technology Wudil
2016-Date	Visiting Associate Prof.	Kano University of Science and Technology Wudil
2000-Date	Consultant	Nigerian Spinners & Dyers Ltd, Kano
2000-2002	Consultant	Rumbo Sacks Ltd, Hadejia Road , Kano
2004-2006	Consultant	Starring Trade International Ltd, Starring Mat Division, Bompai, Kano
2006-2009	Consultant	Learning field Nigerian Ltd. (Consultants)
2010- 2011	Consultant	Amal Engineering Services Ltd.
Dec 2013- Date	Consultant	Ziba Plastic (Nig.) Ltd.

(d) COURSES TAUGHT GENERALLY

(i) Undergraduate Courses

Computer Engineering I & II
Principles of Electrical Engineering I & II
Engineering Electromagnetic I & II
Engineering Mathematics I & II
Circuit Theory
Digital Computer Design
Control Engineering I

Electronics Engineering II&III
Telecommunication Engineering I
Electrical/Electronic Engineering for Mechanical Engineers
Introduction to Digital Electronics

(ii) Postgraduate Courses

Linear system Theory
Selected Topics
Industrial Control Electronics
VLSI Devices & Modeling
Applications of Power Electronics
Electronics Devices & Systems
Engineering Electromagnetics and Waves
Digital Electronics

(iii) Courses Taught in the Last 3 Years

2018/2019 SESSION

ELE 8323 Industrial Control Electronics
ELE 8314 VLSI Devices and Modeling
MCS 5304 MEMS & VLSI
ELE 4301 Electronics Engineering II
MCS 3201 Engineering Electromagnetic field Theory

2017/2018 SESSION

ELE 8323 Industrial Control Electronics
ELE 8314 VLSI Devices and Modeling
ELE 4301 Electronics Engineering II
MCS 3201 Engineering Electromagnetic field Theory

2016/2017 SESSION

ELE 8323 Industrial Control Electronics
ELE 8314 VLSI Devices and Modeling
MCS 5304 MEMS & VLSI
ELE 4301 Electronics Engineering II
MCS 3301 Engineering Electromagnetic field Theory

(e) STUDENTS' PROJECTS SUPERVISION

I. Undergraduate, Electrical Engineering Projects

Have supervised many projects some among them are the following;-

S/N	REG. NUMBER	NAME	PROJECT TITLE
1	TEC/01/ELE/00452	Abdulhakim I. Yazid	Design And Construction Of A Shadow Alarm
2	TEC/02/ELE/01174	Jamila Lamido Sumaila	Design and Construction of a Microcontroller based Car Burglar Alarm Remote Control using Radio Data Transmission and Reception
3	TEC/05/ELE/01899	Abdullahi Muhammad Ibrahim	Provision of Network Security to Electrical Engineering Department Bayero University Kano Intranet
4	TEC/05/ELE/01900	Abubakar Rabiu	Design and Construction of Resistor Colour Code Calculator Using PIC16F877

5	TEC/05/ELE/01929	Muhammad Zakari	Design and Simulation of a Cell Phone Jamming Device
6	TEC/96/7616	Hussaini Isyaku Haruna	Design and Construction of a miniaturized Frequency Modulation Transmitter
7	TECH/05/COM/01729	Nuhu Dan-Azumi Muhammad	Design and Construction of a Salt Tester
8	TEC/96/7616	Hussaini Isyaku Haruna	Design and Construction of a miniaturized Frequency Modulation Transmitter
9	TEC/07/COM/00003	Mustapha Jamiu Muhammad	Design And Construction Of An Electric Surge Protection Device For Household Appliences
10	TEC/07/COM/0007	Abubakar Haruna Muhammad	Design And Construction Of An Intelligent Traffic Light Control System Using Microcontroller
11	TECH/08/ELE/00313	Sharifdeen Adedayo Oke	Electrical Services Design Of A Proposed Technology Laboratory Complex
12	TEC/08/COM/00308	Onah Okechukwu	Design And Implementation Of A Web-Based Library Management System
13	TEC/08/COM/000311	Nura Shehu Muhd	Design and Construction of Ultra Sonic Mosquitor Killer
14	TEC/08/ELE/00307	Habib Ahmad Usman	Design And Construction Of Security System Using IP Camera
15	TEC/02/ELE/01194	Zainab Isiaka Abdullahi	Design And Construction Of A Microcontroller Based Digital Clock
16	TEC/05/ELE/01928	Mahmud Wada Yakasai	Design And Construction Of Who Press First Random Quiz Selector Circuit
17	TEC/09/COM/00406	Bashir Abbas Nasidi	Automatic Vehicle Arrival and Departure System
18	TEC/04/COM/001700	Farouk Muhammad Aliyu	Design And Construction Of A Simple Barcode Reader
19	TEC/07/COM/01677	Abbas Musa Hassan	Development And Implementation Of An Online Examination Management System Software
20	TEC/09/COM/00458	Siyaka Momoh Jimoh	Design And Implementation Of Faculty Registration And Record System

II. Post graduate Diploma, Electrical Engineering Projects

III. Masters in Engineering, Electrical/Electronic Thesis

Have supervised the following masters students;-

S/N	REG. NUMBER	NAME	PROJECT TITLE
1	PGS/TEC/05/065	Sani Musa Daura	Modeling and Simulation of One of Three Phase Selector With Automatic Mains/Generator Change Over Controller Using PIC.
2	PGS/TEC/05/3004	Balarabe Nkom	Development of Microcontroller Based 8-Bit Data Logger
3	PGS/TEC/05/075	Hyacinth Uche Ezima	Development of Induction Motor Speed Control Inverter
4	PGS/TEC/05/0285	Abdullahi T. Idris	Design and construction of 1000VA Microcontroller Based Power Inverter for Medical Equipment
5	SPS/12/MEE/00027	Garba Elhassan	Design and Simulation of Multi-Level Three-Phase Grid-Connected PWM Voltage Source Inverter for Photovoltaic Application
6	SPS/12/MEE/00026	Mahmud Abdullahi Hamisu	Analysis of N-MOSFET Noise using Artificial Neural Network (ANN)
7	SPS/13/MEE/00021	Abdurrasaq Ibiyemi Ibilade	Embedded Communication System for Monitoring and Authenticating Transaction on ATM
8	SPS/12/MEE/00028	Ibrahim Muhammad	Development of Automatic Irrigation System

Have internally examined the following M. Eng thesis;-

S/N	REG. NUMBER	NAME	PROJECT TITLE
1	PGS/TEC/02/095	Obiora O. N. Okafor	Development of a water level controller using fuzzy logic
2	PGS/TEC/02/1196	Adamu Haruna Ibrahim	Design of an Optical Public Address System
3	PGS/TEC/04/0508	Kassim A. Burkullu	Remote Monitoring Of Distribution Transformer Sub-Stations For Fast Fault Detection And Clearance Using WIMO Technology
4	PGS/TEC/05/2879	Jamilu Ado	Development of an Electronic Billboard Using Microcontroller
5	PGS/TEC/04/1081	Bashir Muhd	Design and Implementation of Artificial Intelligence Virtual Laboratory Software
6	PGS/TEC/04/1087	Bashir said	Finger print image enhancement
7	SPS/07/TEC/02445	Bashir Sa'ad Yakasai	Design and Construction of an Automatic Timing For Feeding
8	SPS/04/TEC/1086	Bashir D. Bala	Modeling and Simulation of an Antenna For Effective Performance

9	PGS/TEC/05/091	Ibitayo Ayodeji Joseph	Development of an artificial neural network for image processing applications
10	SPS/07/TEC/01148	Amir Abdullahi Bature	Design and Simulation of Digital Recursive Filter using Artificial Neural Network.
11	SPS/14/ MEE/00051	Rabiu Ado Gezawa	Neuro-Fuzzy Based Power Quality Solution using Unified Power Quality Conditioner
12	SPS/13/ MEE/00005	Murtala Yabo Lawal	Mitigation of Voltage Sag and Swell in Microgrid with BFO Algorithm Based on Dynamic Voltage Restorer

(f) CONFERENCES & TRAININGS ATTENDED:-

1. **Industrial Training Fund (ITF)** – **(1991), 11th** National Conference and Annual General Meeting, Jos.
2. **Dept. of Adult Education & Community Services Bayero University Kano. Nigeria** – **(1992),** Workshop on Maintenance and Supervision, **Paper presented:** "Electric Motor Maintenance And Trouble Shooting"
3. **Checkpoint Security Services Limited, England- (1995),** Technical Seminar on Hologram machines at Kan-Doki Manufacturing and Trading Company, 14E Bello Road Kano.
4. **Universiti Teknologi Malaysia- (2011),** "Computer Modeling Techniques for Power Design & Analysis using PSCAD/EMTDC Simulation Software" 2days Training
5. **Council for the Regulation of Engineering in Nigeria** (COREN) (**2001-2010, 2013-2014):**– Annual Engineering Assemblies and Conference, Abuja.
6. **Converters Management Consultants Dubai**- (2019), "Advanced Strategic Planning" 5daysTraining.
7. **"Nigerian Power Sector Challenges and Strategies for Way Forward"** a paper presented to Kano state Government Power Committee on behalf of Manufacturer Association Kano September 2013
8. "Understanding Roles And Responsibilities Of Head Of Department In An Academic Environment" A paper presented at Bayero University Faculty of Engineering seminar on 5th August, 2017

(g) PUBLICATIONS

(i) NATIONAL JOURNALS ARTICLES

J1 S. S. Adamu, and **H. Musa,** "Dynamic stability analysis of a single machine infinite bus power system in the frequency domain" Nigerian Journal of Engineering, vol. 22, No. 1, pp 97-116, September 2015.

J2 H. Musa, L. A. Yusuf and S. S. Adamu , "Power flow studies for Radial Distribution Systems with Distributed Generation" Journal of Research and Innovation, vol. 1, No. 1, pp. 20-30, 2016.

J3 Ibrahim S. B. and **Musa H.,** "Genetic Algorithm Based Tuning of On-Load Tap Changing Transformer for Voltage Regulation of Power System" Umudike Journal of Engineering and Technology (UJET) vol. 4 no.1 pp. 23-34, June, 2018

J4 Haruna Musa and M. A. Hamisu, "Artificial Neural Network Based Prediction of MOSFET Threshold Voltage and its Effect on Thermal and Flicker Noise Current" Zaria Journal of Electrical Engineering Technology (ZJEET) vol. 7 no.2 pp. 19-28, September, 2018

J5 Haruna Musa and S. A. Adam, " Voltage sag and Swell Mitigation using Optimized Fuzzy Logic Controller Based D-STAMCOM" Zaria Journal of Electrical Engineering Technology (ZJEET) vol. 7 no.2 pp. 35-49, September, 2018.

J6 G. Elhassan and **H. Musa,** "Investigation of Three-Phase Grid-Connected Inverter for Photovoltaic" FUW Trends in Science & Technology Journal vol. 3 no.2B pp. 949-958, October, 2018.

J7 Haruna Musa, "Review on Distributed Generation Placement Methods for Power loss Reduction in Distribution Systems" FUW Trends in Science & Technology Journal vol. 4 no.1 pp. 156-162, April, 2019.

J8 Haruna Musa and M. A. Hamisu, "An Artificial Nueral Network Model for Predictions of Impacts of MOSFET Transconductance Parameter on Noise" Journal of Research and Innovation, vol. 4, No. 1, pp. 16-24, August, 2016.

J9 A. B. Kunya and **Haruna Musa,**"A- State of the Art Review on Load Frequency Control Strategies in Multi- Area Power" Bayero Journal of Physics and Mathematical Science vol.10, No. 1, pp. 158-172, June, 2019.

J10 A. B. Kunya, **Haruna Musa** and Bashir Abdullahi Baba**,** "Supervisory Predictive Control of Half Car Active Suspension Systems with Hydraulic Actuator" Bayero Journal of Physics and Mathematical Science vol.10, No. 1, pp. 216-232, June, 2019.

J11 Haruna Musa, " A Modified PSO Algorithm for optimal DG Sizing Based on Voltage Stability and Power loss Reduction indicators" Bayero Journal of Engineering and Technology vol. 14 no.2 pp.67-80, August, 2019.

J12 Haruna Musa, " A New Tool for Optimal Distributed Generation Placement and Sizing for Radial Distribution Systems using Graphical User Interface Software" Techno Science Africana Journal vol. no. pp., , 20.

J13 H. Musa and A. I. Ibilade "Embedded Communication System for Monitoring and Authenticating Transaction Via Proxy on Automatic Teller Machine (ATM)" Arid Zone Journal of Engineering, Technology and Environment vol.15 no. pp., , 20 **(Accepted for publication in the next issue)**

(ii) INTERNATIONAL JOURNALS ARTICLES

J14 J. J. Jamian, **H. Musa,** M.W. Mustafa, H. Mokhlis, S. S. Adamu "Combined Voltage Stability Index for charging Station Effect on Distribution Network" International Review of Electrical Engineering vol. 48 no. 12 pp. 68-77 Dec 2011 **Official URL: http://connection.ebscohost.com/c/articles/7344283... Google scholar Citations=13 as at 31ST June, 2019.**

J15 H. Musa and S.S. Adamu "Voltage Improvement and Power Loss Reduction for a Typical Sub transmission region Using Optimally Placed and Sized Distributed Generation." International

Journal of Electrical, Electronics and Computer Systems. Vol: 12 Issue: 01, January 2013, pp. 669-672 **www.ijeecs.org. ISSN:2221-7266 (Online). Google scholar Citations=4 as at 31st June, 2019.**

J16 Haruna Musa and Sanusi Sani Adamu, "Optimal Allocation and Sizing of Distributed Generation for Power Loss Reduction using Modified PSO for Radial Distribution Systems" *Journal of Energy Technologies and Policy* Vol.3, No.3, pp. 1-8. 2013. **ISSN (Online) 2225-0573 Google scholar Citations=11 as at 31st June, 2019**.

J17 J.J. Jamian, **H. Musa,** M.W. Mustafa, H. Mokhlis, S.S. Adamu, "Analysis of Distributed Generation Operation Modes using New Effective Voltage Stability Index in Radial System", *International Transactions on Electrical energy systems vol. 24, no. 11, pp. 1576-1585. Nov. 2014.* **Article first published online: 16 SEP 2013 DOI: 10.1002/etep.1793. Google scholar Citations=10 as at 31st June, 2019.**

J18 Haruna Musa, "A Review of Distributed Generation Resource Types and their Mathematical Models for Power Flow Analysis" *International Journal of Science, Technology and Society* Doi: 10.11648/j.ijsts.20150304.21**, 2015; 3(4): 204-212** published online July 1, 2015 (http://www.sciencepublishinggroup.com/j/ijsts). **Google scholar Citations=6 as at 31st June, 2019.**

J19 Haruna Musa, "An Overview on Voltage Stability Indices as Indicators of Voltage Stability for Networks with Distributed Generations Penetration" *International Journal of Science, Technology and Society* Doi: 10.11648/j.ijsts.20150304.**21, 2015; 3(4): 244-249** Published online July 21, 2015 (http://www.sciencepublishinggroup.com/j/ijsts) **Google scholar Citations=5 as at 31st June, 2019.**

J20 Haruna Musa and Sabo Birnin Kudu Ibrahim "A Review of Particle Swarm Optimization (PSO) Algorithms for Optimal DG Placement" *International Journal of Energy and power Engineering*- Doi: 10.11648/j.ijepe.20150404.16 2015; 4(4): 232-239 Published online August 4, 2015 (http://www.sciencepublishinggroup.com/j/ijepe) **Google scholar Citations=1 as at 31st June, 2019.**

J21 Haruna Musa and S. Muhammad,"A Review of Maximum Power Point Tracking Techniques for A Photovoltaic System Using Fuzzy Logic Controller" Alliance journal on computational collaborative Intelligence (AJCCI) vol. no. pp., , 20 Alliance University India journal **Accepted for publication in the first issue**

(i) CONFERENCE PROCEEDINGS

C1 Nkom, B. and **Musa, H**., "Development of a novel microcontroller –based data logger" Proceedings of 2nd IEEE International Conference on Adaptive Science & Technology, 2009 (ICAST 2009). Pp.314 - 324, **DOI: 10.1109/ICASTECH.2009.5409705**

C2 Haruna Musa, Sanusi Sani Adamu,"PSO based DG sizing for improvement of voltage stability index in radial distribution systems" Proceedings of the *International Conference Power and Energy Systems and Applications (IASTED),* pp. 175-180, Nov. 2012. Proceedings of the IASTED International Conference on Power and Energy Systems and Applications (PESA 2012)**. Available in ACTA Press proceedings and journals**

C3 H. Musa, S.S. Adamu, "Distributed Generation Placement And Sizing Using Newly Improved Pso For Radial Distribution Systems", proceedings of the *2nd International Conference*

on Energy Systems and Technologies, Cairo, Egypt, pp.61-66, 18 – 21 Feb. **2013** ***www.afaqscientific.com/icest2013/28-Musa91.pdf***

C4 H Musa, S.S. Adamu (2013) "Enhanced PSO based multi-objective distributed generation placement and sizing for power loss reduction and voltage stability index improvement" Proceedings of Energytech, 2013 IEEE, PP 1-6, 21-23 May 2013 INSPEC Accession Number:13867156 Cleveland, OH USA **DOI:10.1109/EnergyTech.2013.6645315**

C5 A.U. Lawan, N. Magaji, **H. Musa**, "A STATCOM Controller for small signal stability using polynomial Algorithms in a horizontal axis wind farm power system" Proceedings of Energytech, 2013 IEEE Pages: 1 - 5, 21-23 May 2013 INSPEC Accession Number: 13867156 Cleveland, OH USA **DOI: 10.1109/EnergyTech.2013.6645287**

C6 H. Musa, B.Usman, S.S. Adamu, "Improvement of voltage stability index using distributed generation for Northern Nigeria sub-transmission region "Proceedings of *IEEE International Conference on Computing, Electrical and Electronics Engineering (ICCEEE)* Khartoum, Sudan, pp. 410 – 412, 26-28 Aug. 2013, **D.O.I. 10.1109/ICCEEE.2013.6633972**

C7 H. Musa and S. S. Adamu, "Effectiveness of Engineering Students Industrial Work Experience Scheme Program in Manufacturing Industries of KANO State" Academia-Industry, 2014 (ACICON 2014), pp.234-244

C8 G. Elhassan and **H. Musa**, "Modeling and Simulation of a Multi-level 3-phase grid connected PWM voltage source inverter for photovoltaic systems" Proceedings for 1st international conference on Green Engineering for Sustainable Development (IC-GESD, 2015) pp. 209-212

C9 H. Musa and S. B. Ibrahim, " PSO Based Control of Stand-Alone Hybrid PV-Diesel System for Future Energy Mix in Industries" Proceedings for 1st international conference on Green Engineering for Sustainable Development (IC-GESD, 2015) pp222-226.

C10 L. A. Yusuf, N. Magaji and **H. Musa**, "Comparison of Performance between GA-PID and LQR Controller for 4-Leg Source" Proceeding for 2nd National Engineering Conference on Academia-Industry, 2016 (ACICON 2016), pp. 166-169.

C11 Haruna Musa "Mechatronics Engineering Education A Tool for Modern Industrial Development" Proceedings for the 4th Annual International Conference, Yusuf Maitama Sule University, Kano, Nigeria. July, 2019. pp

C12 Haruna Musa, "An Automatic Farm Watering System for Effective Irrigation" Proceedings for the 4th Annual International Conference, Yusuf Maitama Sule University, Kano, Nigeria, July 2019, pp

C13 Haruna Musa, "Voltage stability index improvement based on optimal placement of Distributed Generation in Distribution system" Proceeding for the International Conference on Distributed Generation and Sustainable Energy (ICDGSE-19), July, 2019, pp. 40-44

C14 Haruna Musa, "Artificial Neural Network Based Transmission Usage Allocation Technique for Bilateral Trades in Deregulated Environment" Proceeding for the International Power Engineering Conference (IPECON-2019), Nigerian Institution of Power Engineers, July, 2019, pp.10-14

(iii) ENGINEERING TECHNICAL REPORTS

(a) Technical Reports

TR1 Rumbo Sacks Nigeria Ltd. Kano (2001) "Report on Design and Installation of power distribution system network for Plastic Sacks Company**.**

TR2 Nigerian Spinners and Dyers Ltd Kano (1999) Retrofit of BM 13 Textile Roving Machine for Efficient Running using Asynchronous Motor with Frequency Inverter

TR3 Ziba Plastic Nig. Ltd Kano. (2013) Production Improvement Techniques and Efficient usage of Electricity in Ziba Plastic Nig. Ltd., Kano

(b)**Other Technical Reports not included**

TR4 Nigerian Spinners and Dyers Ltd Kano. (1995) Design and Construction of Drum Cavity for Radio Frequency (RF) Textile Drying Machine.

TR5 Domino Development Ltd, Kano (.Aug. 1997) Design & Construction of Water Chillers Control Panel for cooling of Extruded plastic firm.

TR6 Setramech Nig. Ltd. (1999) Design & Construction Of Asphalt Mixing Station Control Panel

TR7 Kan-Doki Manufacturing And Trading Co. Ltd, Plot 511, Jabi District, Abuja Office (2000) Design And Construction Of Generator Panel

TR8 Nigerian Spinners & Dyers Ltd Kano (2000) Installation & Commissioning of a Screw Air Compressor Type Ga37 – Atlas Copco.

TR9 Industrial Energy Audits for the following companies;

- Domino Development Ltd. Kano
- Ziba Plastic Ltd. Kano
- Nigerian Spinners &Dyers Ltd. Kano

TR10 Nigerian Spinners & Dyers Ltd., Kano (July, 2000) Technical Report on Plant Steam Boiler Annual Insurance Inspection and Service.

(h) RECOGNITIONS

EXTERNAL EXAMINERSHIP

- Kano State Polytechnic, School of Technology Kano; External Examiner to OND and HND Electrical Engineering courses. (2002 to date).
- Ahmadu Bello University, Zaria Department of Electrical Engineering; External Examiner for Undergraduate Program. (2018/2019 session).

Have externally examined the following M. Eng Dissertation and PhD thesis;-

S/NO.	INSTITUTION	NAME OF STUDENT	DEGREE	TITLE OF THESIS/ DISSERTATION
1	ABU	Saleh Gelta Yakubu	M.Sc. (Power system Engineering)	Development of an Improved Forced Island and Load Shedding Scheme to Prevent System Collapse
2	ABU	Ibrahim Hassan	M.Sc. (Power system Engineering)	Development of Automatic Frequency Control for a Multi- Area Power system using Artificial Bee Colony Algorithm
3	ABU	Kabir Mohammed	M.Sc. (Power system Engineering)	Development of an Optimal Overcurrent Relay Protection Co-ordination for Distribution Network Based on Modified PSO Technique
4	ABU	Musa Aliyu Yakubu	M.Sc. (Power system Engineering)	A hybrid Genetic-Artificial Fish Swarm Algorithm for Economic Load Dispatch with Valve-point and Multiple fuels Effects

5	ABU	Abdulkareem Zakariyyah	M.Sc. (Power system Engineering)	Development of state estimation based improved detection and localization of Non- Technical Losses using SMART meter
6	ABU	Abdullahi Bala Kunya	Ph.D. (Power system Engineering)	Development of Non-Centralized Model Predictive Active Load Frequency Control in a Deregulated Power System

SECTION C: ADMINISTRATIVE EXPERIENCE

(a) ADMINISTRATIVE POSITIONS HELD IN THE UNIVERSITY

I. Departmental/Faculty Responsibilities

1. **Level Co-ordinator (Spill-over)** Department of Electrical Engineering Bayero University, Kano (2001/02, 2002/03). **(2years)**
2. **Departmental Examination Officer,** Department of Electrical Engineering Bayero University, Kano. (2003 to 2004). **(1 year)**
3. **Level Co-ordinator (Level 100)** Department of Electrical Engineering Bayero University, Kano (2007/08, 2008/09). **(2 years)**
4. **Assistant Faculty Examination Officer,** Faculty of Technology Bayero University Kano. (1991). **(1 year)**
5. **Faculty Exams Officer,** Faculty of Tech. Bayero University Kano. (1991 to 1993, 2004 to 2006). **(2 years)**
6. **Co-ordinator,** Students Industrial Work Experience Scheme Program **(SIWES)** Faculty of Technology Bayero University Kano. (1991 to 1993).
7. **Member Departmental Appointment & Promotion Committee (A&PC),** Faculty of Technology Bayero University Kano. (2006 to 2008).
8. **Head Control Engineering Research Group** (2012 to 2016)
9. **Departmental Seminar Co-ordinator,** Department of Electrical Engineering Bayero University, Kano. (2014 to 2016).
10. **Head Department of Mechatronics Engineering,** Bayero University, Kano. (June, 2016 to June, 2018) **(2years)**

II. University/Faculty Committees

1. **Director, Directorate of Academic Planning Bayero University, Kano (2020-Date)**
2. **Deputy Director Strategic Planning & Monitoring Bayero University, Kano (2018-2020)**
3. **Member University ICT Development Committee (ICTCD). (2019-Date).**
4. **Member University Furniture Loan Committee Representing Faculty,** Faculty of Engineering Bayero University Kano. (2014 to 2016) **(2 years)**
5. **Member Faculty Appointment & Promotion Committee (A&PC),** Faculty of Technology Bayero University Kano. (2006 to 2008).
6. **Member University Examinations Timetable Committee,** Faculty of Technology Bayero University Kano. (1991 to 1993)**.**
7. **Member University Senate Representing Congregation,** Faculty of Technology Bayero University Kano. (2003 to 2005). **(2 years)**
8. **Member Senate Business Committee (SBC),** Bayero University Kano. (2004 to 2005) **(1 years)**

(b) NON-UNIVERSITY SERVICES TO RELEVANT PUBLIC BODIES

1. **Secretary General**, Tarbiyyah Mosque Custody and Community Fund Plot No. 52 PHC 375 Giginya Rd. Karkasara Qtrs., Tarauni Local Govt. Kano (2001 to 2009). **(8 years)**
2. **Chairman Education Committee,** Abumatali Islamic Model School, NO. 140 Nguru Road, Hadejia, Hadejia L.G. Jigawa State**.** (2007 to 2010) **(3 years)**
3. **Vice Chairman**, Markazu Ummil Mu'uminina A'isha (R.A.), NO. 94/95 Kwarrafawa Avenue, Hausawa Qtrs., Tarauni Local Govt., Kano (2012 to Date) **(2 years)**

(c) REFEREES

1. **Prof. U. G. DAMBATTA**
   Department of Electrical Engineering
   Bayero University
   Kano

2. **MR. L. A. AKLE**
   Nigerian Spinners & Dyers Ltd
   P.O. Box 138
   Kano.

3. **Prof. S.S. ADAMU**
   Department of Electrical Engineering
   Bayero University
   Kano
   .

Signature **Date**