

CURRICULUM VITAE

1. BIODATA:

- a. **Names in Full:** ODUNLAMI, Samson Abiodun (Engr Dr)
- b. **Date & Place of Birth:** 26th December, 1966 / Abeokuta
- c. **Gender:** Male
- d. **State of Origin/ LGA:** Ogun State / Abeokuta South
- e. **Nationality / Nat. ID Card No.:** Nigerian / NGA 9127240144
- f. **Marital Status:** Married
- g. **Number of Children & Ages:** 2 children (Girl - 21years old & Boy - 18years old)
- h. **Religion** Christianity
- i. **Contact / Home Address:** 6, Rev. Odunlami Street, Ikopa-Titun, Asero, Abeokuta, Ogun State.
- j. **Email address:** odunlamisamson@gmail.com
- k. **Telephone Numbers:** +2348033806672; +2348133897269;
- l. **Blood group / Genotype:** O +ve / AA
- m. **Polytechnic Staff Identity No.** P/SS/ 587
- n. **School / Department:** Engineering / Mechanical Engineering
- o. **Appointment status/date:** Assistant Lecturer/ 7th February, 1994
- p. **Last Promotion** 2018, from Principal Lecturer to Chief Lecturer
- q. **Present Position / Office:** Chief Lecturer / HOD (Mechanical)

2. Institutions Attended with dates:

- a. Federal University of Agriculture Abeokuta (2009/2010 to 2015/2016)
- b. University of Lagos, Nigeria (1995/96)
- c. Ogun State Polytechnic (now Moshood Abiola Polytechnic) Abeokuta, (93/94)
- d. University of Ilorin, Nigeria (1987-1991)
- e. Methodist Theological Institute, Sagamu (2004- 2007)
- f. The Federal Polytechnic, Ilaro, Nigeria (1985-1987)
- g. African Church Grammar School, Abeokuta (1980-1984)
- h. Imala Community Grammar School, Imala. Ogun State (1979/80)
- i. Imo Methodist Primary School, Oke - yeke, Isabo, Abeokuta(1973-1979)

3. Academic Qualifications with dates

- a. Ph.D (Industrial Engineering), 2017
- b. MSc (Mechanical Engineering) 1997.
- c. B.Eng.(Mechanical Engineering) 1991
- d. National Diploma (Mechanical Engineering) 1987

- e. Dip(Th) Diploma in Theology, 2007
- f. Secondary School Certificate (WASC) 1984

4. Membership of Learned Societies / Professional bodies with Numbers and dates:

- a. Member, the Nigerian Institution of Mechanical Engineers (**MNIMech.E**-No. 000149) 2007
- b. **COREN** Registered Engineer (No. R.12236) 2006
- c. Corporate Member, The Nigerian Society of Engineers (**MNSE**-No.14584) 2004
- d. Associate Member, The Nigerian Institute of Management (**AMNIM**-No. 62575) 2004
- e. Member, Nigerian Institutions of Engineering Management (**MNIEM**-No. EM 0125) 2001

5. Working Experience

- a. Teaching experience:
 - i. 1 year NYSC program at the Nigerian Naval Technical Training Center, Urhiapele, Sapele, Delta State - 1991/92
 - ii. 25 years (1994 - date) as a lecturer at the Federal Polytechnic Ilaro
- b. Courses Taught. @ Naval Base
 - i. Basic Mechanical workshop Practice, Strength of Materials, Hydraulic & Pneumatic systems
 - ii. At the Federal Polytechnic Ilaro:

S/N	COURSE TITLE	CODE	COURSE UNIT: CONTACT HOUR (Lecture/Practical)	SEMESTER	CLASS(ES)
1.	Strength of materials I	MEC 222	3: 2hrs lecture/3hrs practical	Second	NME 2 & PNME 2
2.	Engineering Measurement	MEC 212	2: 1hr lecture/2hrs practical	First	NME 2 & PNME 2
3.	Metrology	MEM 414	3: 2hrs lecture/3hrs practical	First	HME 2 (Manufacturing)
4.	Press and Cutting Tool Design	MEM 411	3: 2hrs lecture	Second	HME 2 (Manufacturing)
5.	Strength of Materials- II	MEC 313	2: 2hrs lecture/3hrs practical	First	HME I (ALL)
6	Strength of Materials- III	MEC 322	2: 2hrs lecture/3hrs practical	Second	HME I (ALL)
7.	Thermodynamics I	MEC 125	3: 2hrs lecture/3hrs practical	Second	PNME 1
8	Mechanical Engineering Science. I & II (Statics & Dynamics)	MEC 111 & ME 124	3: 2hrs lecture/3hrs practical	First & Second	PNME 2

9.	Technical Drawing I	MEC 101	2: 1hr lecture/3hrs practical	First	NME 1 & PNME 1
10.	Engineering Drawing I	MEC 211	2: 1hr lecture/3hrs practical	First	NME 2 & PNME 2
11.	Technical Drawing II	MEC 102	2: 1hr lecture/3hrs practical	Second	NME 1 & PNME 1
12.	Engineering Drawing II	MEC 223	2: 1hr lecture/3hrs practical	Second	NME 2 & PNME 2

1. ACADEMIC RESPONSIBILITIES WITHIN THE POLYTECHNIC

LECTURES / PRACTICALS

iii. Research Interest:

Industrial Ergonomics, safety, Human factor, Design and fabrication of equipment

iv. Academic leadership positions:

- Member, Academic Board of Federal Polytechnic Ilaro.
- Member, School of Engineering Board of study, FPI.
- Book Editor, University Press Plc, Ibadan, (International Publisher)

2. Administrative experience:

(a) Institutional

Substantive Head, Department of Mechanical engineering, FPI – (1st Jan. 2016 – Date)

1. Acting Head, Department of Mechanical engineering, FPI (1st Sept. 2015 – 31st Dec. 2015)

3. **Pioneer** Coordinator, Creation of Department of Welding and fabrication Programme

4. Pioneer Coordinator, Creation of Department of Mechatronic Programme

5. Head, Experimentation Unit of Mech. Department- (2004 - Sept. 2015)

Membership of Polytechnic Standing & Ad hoc Committees:

1. Member, Driving School Establishment Committee. (2018- Date)
2. Member, Design & Construction of a Customized Drone (2018- date)
3. Member, Establishment of Cement Technology Programme Committee. (2018)
4. Member, The Polytechnic Guidance and Counseling Standing Committee (2014- date)

5. Member; The Polytechnic Central Examinations Committee (2003-2006)
6. Secretary; The Polytechnic Central Exhibition Committee - (2007 - 2009)
7. Member; Polytechnic Flag and Anthem Design & Composition Committee
8. Member; ASUP 2nd National Conference Organizing Committee
9. Member, Editorial Committee on Journal of Innovation in Science and Engineering, Federal Polytechnic Ilaro

(b) School of Engineering:

1. Member, Journal Editorial Committee: Journal of Innovation in Science and Engineering School of Engineering (2016-Date)
2. Member, Book Review Committee School of Engineering (2016 - Date)
3. Chairman, 3rd School of Engineering Retreat Organizing Committee -2016
4. Chairman, Program and Publicity, School of Engineering 3rd National Conference Committee -2015
5. Member, School of Engineering 3rd National Conference Main Committee - 2015
6. Resource Person, 2nd School of Engineering Retreat, 2015
7. Chairman, Program and Publicity, School of Engineering 2nd National Conference Committee -2013
8. Member, School of Engineering 1st National Conference Main Committee – 2012
10. Member, Abstract committee, School of Engineering 1st National Conference Committee-2012

(c) Mechanical Engineering Departmental Committee

1. Departmental Exam Officer- (1998-2003)
2. Chairman, Internal Moderation Committee (2012 - Sept. 2015)
3. Chairman, Inventory Committee- (2004 - Sept. 2015)
4. Departmental Students Counselor (2012 - Sept. 2015)
5. Class Adviser-HND II Mech. Students (2004 - Sept. 2015)

6. Staff Adviser I- Mechanical Engineering Students' Association (MESA), FPI (1995 - Sept. 2015)
7. Departmental ILPO / SIWES / I.T. Coordinator (2003- 2005)
8. Secretary, Student Project Committee (1997- 2009)

SERVICES OUTSIDE THE FEDERAL POLYTECHNIC ILARO

1. **External Assessor**, Promotion of Senior Academic staff, The Ibarapa Polytechnic, Eruwa, Oyo State (2019)
2. **NBTE Accreditation Resource Person** - (2018 - date)
3. **External Assessor, Promotion** of Senior Academic staff, Osun tech. Esa- oke, Osun State (2018)
4. **Chairman of Technical Session:** 3rd National Conference of Engineering and Exhibition, Moshood Abiola Polytechnic, Abeokuta (MAPOLY) - 30th of June. 2017.
5. **Resource Person** at the 1st Academic staff Workshop, School of Management Science, D.S.Adegbenro ICT Polytechnic, Itori- Ewekoro, Ogun State (14th of Nov, 2017)
6. **External Exam. Moderator:** - Department of Mechanical Engineering, The Ibarapa Polytechnic, Eruwa, Oyo State. (27th July, 2017- date)
6. **External Exam. Moderator/Assessor:-**Department of Mechanical Engineering, Moshood Abiola Polytechnic Abeokuta, Ogun State. (2016- Date)
8. **Chairman of Conference Plenary Session:** 2nd School of Engineering National Conference. Moshood Abiola Polytechnic, Abeokuta (MAPOLY) - Nov. 2014
9. **Book Author**, University Press, Plc, Ibadan, Nigeria
10. **Book Editor**, University Press, Plc, Ibadan, Nigeria
11. **Project officer / Consultant-** Victory Private Secondary School, Idi-aba, Abeokuta

ACADEMIC PUBLICATIONS:

CONFERENCE PAPERS WITH DATES

Odunlami S.A & Ramonu O.J. (2018) Design and Fabrication of a Mobile Sieving Machine for Small and Medium Scales Garri Processing Industry. *International Conference and Exhibition on Technological and Global Competiveness. Federal Polytechnic, Ilaro.*

Ramonu O.J. & **Odunlami S.A.** (2018), Numerical Investigation of Thermophoresis and Brownian motion on Boundary Layer Flow of a Nanofluid. *1st International Conference and Exhibition on Technological and Global Competiveness. Federal Polytechnic, Ilaro.*

Odunlami S. A. and Adio M. A. (2018), Impact of SIWES on Academic Performance of Mechanical Engineering Student. *1st International Conference and Exhibition on Technological and Global Competiveness. Federal Polytechnic, Ilaro.*

Orelaja, O. A., Musa, A. I., Odutayo, O. O., Adeleke. M. B and **Odunlami, S. A** (2017, Development and Evaluation of Ceramic Microfiltration Membrane for Water Treatment *3rd National Conference of Engineering and Exhibition. School of Engineering Moshood Abiola Polytechnic Abeokuta, Ogun State.*

Odunlami S. A. (2017), Technology, Innovation and Community Service," *1st Academic staff Workshop, School of Management Science, D.S. Adegbenro ICT Polytechnic, Itori-Ewekoro, Ogun State (14th of Nov, 2017)*

Ramonu O.J. & **Odunlami S.A.** (2017) Comparison of Gas Emission from SAE 40 Engine oil and some Vegetable oils Blend at Varying Mixture Ratios with Gasoline. *The National Conference of Joint Schools of Pure & Applied Science and Communication & Information Technology December 4th-7th, 2017.*

Odunlami S.A & Ramonu O.J. (2017) Reconceptualising Technical Language for Technical Drawing as a Means of Addressing Mass Failure in the Subject. *Media, Communication and Information Technology Conference.*

Odunlami S. A. and Awolola O.O. (2017). Ergonomic Modeling of Urban Bus Pedals' placement. Nigerian Society of Engineers National Conference, Abuja - November 20th - 24th 2017)

Odunlami S.A. and Musa A.I.(2017), Anthropomorphic Data of Urban Commercial Bus Drivers I South- West Nigeria,. 3rd National Conference, School of Engineering, Moshood Abiola Polytechnic, Abeokuta Ogun state 10th- 13th July, 2017

Odunlami S. A, and Ismaila S.O. (2017). Ergonomic Compatibility study of urban Bus Drivers Seat in South west Nigeria. 1st Annual National Conference, The Ibarapa Polytechnic, Oyo state. July 17th - 20th, 2017

Amosun S.T., **Odunlami S.A.**, and Ismaila S. O. (2016).Design, Construction and Performance Characterization of a Solar Energy-Powered Tyre Pressure Control Unit. 1st National Conference, College of Engineering, Federal University of Agriculture Abeokuta.

Odunlami S.A. and Orelaja O.A, (2014). Development of a reactor for the production of Activated carbon from coconut shell. . 2nd School of Engineering National Conference. Moshood Abiola Polytechnic, Abeokuta (MAPOLY)

Orelaja O.A, Adeleke M.B, **Odunlami S.A.** and Otulana J.O. (2014). Assessment of maintenance Practice of plants and Equipment in Cement factories in Nigeria. 2nd School of Engineering National Conference. Moshood Abiola Polytechnic, Abeokuta (MAPOLY)

- Odunlami, S.A,** Ismaila S.O and Musa I.A. (2014). Anthropometric Data of Urban Commercial Bus Drivers in South west Nigeria, 2nd School of Engineering National Conference. Moshood Abiola Polytechnic, Abeokuta (MAPOLY)
- Orelaja O.A, Adeleke .M. B. **Odunlami S. A.** Otulana .J. O. (2015). 'Assessment of Maintenance Practice on Plant and Equipment in Cement Production Company Towards Machineries Management Practice in Nigeria . 2nd School of Engineering National Conference, Moshood Abiola Polytechnic, Abeokuta.
- Orelaja O.A, Adeleke M. B. **Odunlami S. A.** Kehinde .O. P. (2015). Evaluation of Maintenance Strategy of Food Company Towards Sustainable and Affordable Production In Nigeria Mechanical Engineering Department, Moshood Abiola polytechnic, Abeokuta, Nigeria
- Dada, A, & **Odunlami, S.A.** (2012) The Management of Technology Innovations for Entrepreneurial and Infrastructural Development 1st School of Engineering National Conference, Moshood Abiola Polytechnic, Abeokuta.
- Odunlami, S. A** and Orelaja O.A. (2012) The effects of Industrial Noise and Vibrations on Factory Workers, 1st National Conference, Moshood Abiola Polytechnic, Abeokuta.
- Musa, A. I. & **Odunlami, S.A.** (2012): Significance of Engineering Research and Development of locally fabricated Timber Processing Machines in Nigeria, Nigerian Society of Engineers-NSE Annual Conference Ilorin, Kwara State
- Dada A. & **Odunlami S.A.** (2012) The Management of Technology for Entrepreneurial and Infrastructural Development.
- Odunlami, S. A,** Adebisin, A.A and Awolola O. O. (2008) The Importance of Modern Teaching and Learning Aids in Nigerian Polytechnic Education. ASUP Ilaro 3rd National Conference
- Odunlami, S. A** and Omolola S. A. (2008) Conduct and Assessment of Practical Exercise and Industrial Training in the Nigerian Polytechnic. ASUP Ilaro 3rd National Conference.
- Olagoke S. A. and **Odunlami S.A.** (2006) Impacts of Information Technology on Scientific Development. Nigerian Society of Engineers Annual General Conference / Meeting-Gateway 2006 in Abeokuta.
- Odunlami S. A.** and Omolola S. A. (2006), Densification of combustible Biomass waste for fuel and sustainable Technological Development. ASUP Ilaro 1st National Conference.

JOURNAL PUBLICATIONS

- Odunlami S.A.** and Ramonu O.J. (2017), "*Effects of Internal Heat Generation Radiation on Unsteady Hydromagnetic Flow Past a Streamlined Surface Embedded in a Porous*

- Medium with Viscous Dissipation''*. FUUW Trend in Science and Technology Journal (FISTJ) Volume 2 Issue 2 pp 755-760 Federal University Wukari, Nigeria (FUW)
- Odunlami S. A.** and Ramonu O.J.(2017). "*Design and Fabrication of an Extraction Machine for Small Scale Production of Local Pomade from Coconuts* ", Imperial Journal of Interdisciplinary Research (IJIR) Vol.3 Issue 9 2017 pp 737-740
- Odunlami S.A.** and Oreaja O. A (2017), *Development of Mathematical Models for effective placement of steering wheel in bus drivers' workstations*. African Journal of Engineering Research and Development, Devon Science Journal series. Paper No: DEV 2017/208
- Adeniji O.A, Olowofela S.S, **Odunlami S. A.**, and Alausa D.W.S. (2016). *Towards Better Usage of Solar Renewable Energy by Domestic Consumers in Nigeria*. Journal of Academic Staff Union of Polytechnics (JASUP); Volume 1, Number 1&
- Awe O.I., Owoeye F.T., **Odunlami S.A.**(2016). *Investigation of Aluminum Behaviour (Corrosion) in Acidic and Alkalinity Media*. Journal of Scientific and Engineering Research, 3(4):1-6
- Musa, A.I., Adeyemi H.O., **Odunlami S.A.**(2016) *Modeling the Peak Expiratory Flow Rate of Female Bakers in Abeokuta, Nigeria*. FUTA Journal of Research in Sciences (1) pp 46-54
- Musa, A. I, Rahmon A., S.A, **Odunlami S.A.** (2013). *A Bio-Economic for Nigeria: An Innovation for Sustainable Growth*. The Journal of Management and Technology (JORMATECH)
- Odunlami S.A.**, Musa A.I., Dada A., Orelaja O.A (2013). *Comparative Studies of Academic Performance of Full-time and Part-time Polytechnic Engineering Students*. Journal Research Review in Business Education and Management Science, Kasa Management Consultancy Services, Lagos, Nigeria.
- Musa A.I., **Odunlami, S.A.**(2013) *Significance of Engineering Research and Development of Locally Fabricated Timber Processing Machine in Ogun State,Nigeria*. The Ilaro Journal of Management, Arts, Science and Technology (TIJMAST)
- Amosun S.T.**and **Odunlami S.A.** "*Development and Performance Evaluation of a Box- type Solar Cooker''*". International Journal of Advanced Science and Technical Research (IJAST)

Odunlami S.A., Lawal A. G. and Feyisitan K.O. (2008) *Environmental impact of Vehicular Emission in Nigeria: Assessment & Strategies for Reduction/Mitigation*. Published in Ilaro Journal of Environmental Research & Development 1 (1) pp. 73-82.

SOME OF THE STUDENTS PROJECTS SUPERVISED

Design and Constructions of:

1. Rice Husking Machine --**HND**
2. Beans Threshing Machine—**HND**
3. Paper Shredding Machine—**HND**
4. Coconut-oil Extracting Machine---**HND**
5. Friction Belt apparatus for Mechanics of Machine laboratory--**HND**
6. Strut apparatus for Mechanics of Machine laboratory--**HND**
7. Torsion Testing Apparatus for Strength of Materials laboratory--**HND**
8. Deflection of beam apparatus for Mechanics of Machine laboratory--**HND**
9. Spring Testing apparatus for Mechanics of Machine laboratory--**HND**
10. Casting of the Federal Polytechnic Ilaro Logo & Sign post ---**ND**
11. Mellon Grinding Machine ----**ND**

CONFERENCES / WORKSHOP / SEMINAR ATTENDED WITHOUT PAPER PRESENTATION

1. 2018 National Engineering Conference, Abuja.
2. Retreat for Heads of Department and School officers(2018). Federal Polytechnic Ilaro. 31st Aug. - 2nd Sept. 2018
3. Train-the-Trainers Workshop for FSD/ TIER Project. Federal Polytechnic Ilaro. 27th - 28th March, 2018
4. Book writing workshop, University Press, Plc, Ibadan, Nigeria- 2008, 2014 & 2017.
5. One-day Automotive Mechatronic Seminar, by Automedics Limited@ LTV Agidingbi Ikeja, Lagos. 16th July, 2016.
6. Universal Copyright Convention, University Press Plc, Ibadan, 2016.
7. Workshop/Training Programme on Experimentation, Statistical Analysis and Data Interpretation (FUNAAB UNIVERSAL CONSERVICES LTD)- May 8-9, 2013
8. Train-the Trainer Workshop on the use of TVET/SKILL EQUIPMENTTSf 19th -22nd December, 2011
9. Conference of the Methodist Church Nigeria held at Umuahia, Abia State-Aug. 2010

RETREAT (POWER POINT) PAPER PRESENTATION

Odunlami S. A. (2016). Technical/Engineering Drawing: Challenges And Modalities For Effective Teaching And Learning Processes 3rd School of Engineering National Retreat, Federal Polytechnic Ilaro- **Resource Person**

Odunlami S.A., Orelaja O.A., and Owoeye, F.T. (2016). Effects of Examination Misconduct. 3rd School of Engineering Conference, Federal Polytechnic Ilaro

Odunlami S. A., Musa I. A and Adeniji. O. A. (2016). Assessment of the mandatory one year Industrial Training programme in Nigerian Polytechnic education system. 3rd School of Engineering National Conference, Federal Polytechnic Ilaro

CREATIVE DEVELOPMENT

Odunlami S.A. (2016). Development of Mathematical Models and Software for the Placement of Steering Wheel and foot Pedals in Urban Buses. 2016

A. TEXTBOOKS AUTHORED / Co-AUTHORED

Odunlami S.A. (2017). Introduction to Engineering Measurement and Metrology. (Technical Drawing) 1st Edition. Habidek Nigeria Ent. Abeokuta, Nigeria

Odunlami S.A. (2017). Engineering Graphics for Beginners (Technical Drawing) 2nd Edition. Habidek Nigeria Ent. Abeokuta, Nigeria

Adebayo-Begun P.A, Ugwumba A.O, **Odunlami S.A.**, Sallau M.S, Gbagi L, Saromi M.A, Yara P.O. (2015). Exam Focus: Basic Science and Technology for Junior School Certificate Examination. University Press Plc, Ibadan (My Contributions: Part B-Basic Technology; chapters 24 – 37 **pp** 81 - 139)

Odunlami S.A. (2012), Engineering Measurement. Habidek Nigeria Ent. Abeokuta, Nigeria

Odunlami S.A. (2011) Engineering Graphics for Engineers. Habidek Nigeria Ent. Abeokuta, Nigeria

Akintade and Odunlami (1998). Essential Steps in Technical Drawing Vol.1 (Geometrical Construction), IPS Educational Press, Ilaro

Odunlami and Akintade (1998). Essential Steps in Technical Drawing Vol.2 (Descriptive Geometry), IPS Educational Press, Ilaro

B. TEXTBOOKS REVISED AT UNIVERSITY PRESS PLC. IBADAN (2008 and 2017)

1. Makanjuola, S.A, Offurum R.I.N, Galadnchi I, Sofolahan J.A.O., Richardson P.K. Dare A.B (2012) Basic Technology for Junior Secondary School **Book 1**. University Press Plc Ibadan
2. Makanjuola, S.A, Offurum R.I.N, Galadnchi I, Sofolahan J.A.O., Richardson P.K. Dare A.B (2012) Basic Technology for Junior Secondary School **Book 2**. University Press Plc Ibadan

3. Makanjuola, S.A, Offurum R.I.N, Galadnchi I, Sofolahan J.A.O., Richardson P.K. Dare A.B (2012) Basic Technology for Junior Secondary School **Book 3**. University Press Plc. Ibadan

10. COMMUNITY SERVICES TO OTHER NON- ACADEMIC COMMUNITIES

Ordained Methodist Church Nigeria. **Church Minister** (Tent Making). Voluntarily Pasturing Olude Memorial Methodist Church, Adedotun, Ogbe Circuit, Diocese of Egba-Yewa.

C.D.A **Technical officer / Project Supervisor** Ikopa -Titun, Community Development Association, Asero, Abeokuta, Ogun State (2005 -Date)

Chairman, C.D.A Constitution Drafting Committee: Ikopa -Titun, Community Development Association, Asero, Abeokuta, Ogun State (2005) **Member, Building Committee;** Methodist Church Nigeria, Imo and Adedotun, Abeokuta.

11. EXTRACURRICULAR ACTIVITIES

- a. Reading Bible and Preaching The Word of God.
- b. Community and Church Developmental Activities Guidance & Counseling

REFEREES

1. PROF. S.O. ISMAILA

Department of Mechanical Engineering,
Federal University of Agriculture, Abeokuta.

2. ENGR O. O. KUKOYI

Director, EDC
The Federal Polytechnic, Ilaro.