



**UNIVERSITY OF IBADAN
CURRICULUM VITAE**

I

- (a) Name: Oladunni Sarah Okunade (Nee: Ogunmola)
- (b) Date of Birth: 11 April, 1980
- (c) Department: Industrial and Production Engineering
- (d) Faculty: Technology

II

- (a) First Academic Appointment: Lecturer II (10 June, 2016)
- (b) Present post (with date): Lecturer I (01 October, 2020)
- (c) Date of last promotion: 01 October, 2020

III University Education (with dates)

University of Ibadan, Nigeria	2006-2010
University of Ibadan, Nigeria	2012-2014
University of Ibadan, Nigeria	2015-Till Date

IV Academic Qualifications (with dates and granting bodies):

B.Sc. (Hons) Industrial and Production Engineering (University of Ibadan, Nigeria)	2010
M.Sc. Industrial and Production Engineering (University of Ibadan, Nigeria)	2014

V	<u>Professional Qualifications and Diplomas (with dates)</u>	
	(a) National Diploma in Mechanical Engineering (The Polytechnic, Ibadan)	2002
	(b) ESEFA Enterprise System Fundamental Course	2015
	(c) SAP Certified Application Associate	2017
	(d) Registered Engineer, Council for the Regulation of Engineering in Nigeria, COREN (R.55220)	2020
VI	<u>Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only</u>	
	Oyo State Scholarship (M.Sc.)	2013
	Erasmus + ICM grant funding for Ph.D. research at Birmingham City University, UK	2018
	Exchange studies under Erasmus+ programme at Vytautas Magnus University, Kaunas, Lithuania	2020
	AGNES-PAWS Mobility Grant at Cochrane South Africa, South African Medical Research Council, Cape Town, South Africa	2022
VII	<u>Honours, Distinctions and Members of Learned Societies</u>	
	Best Graduating Student Mechanical Engineering Department, The Polytechnic, Ibadan, Adeseun Ogundoyin Campus	2002
	Dean's Honors Award for High Academic Performance, 2008/2009 Session.	2009
	Corporate Member, Nigerian Society of Engineers (No. 43417)	2017
	Member, Organization for Women in Science for the Developing World (OWSD), Ibadan	

VIII Details of Teaching/Work Experience

Lecturer II, University of Ibadan, Ibadan, Nigeria

June, 2016 till date

Courses Taught

Department of Industrial and Production Engineering, University of Ibadan

S/N	Course code	Course Title	Units	Session	Remarks
1	TIE 313	Engineering Economics	3	2015/2016-till date	Jointly Taught
2	TIE 412	Work Systems Design	3	2016/2017-2020/2021	Jointly Taught
3	TIE 416	Industrial Forecasting Techniques	3	2018/2019-2020/2021 2022/2023-till date	
4	TIE 514	Simulation in Systems Design	3	2015/2016-till date	Jointly Taught
5	TIE 511	Engineering Management	3	2017/2018	Jointly Taught
6	TIE 523	Human Factors Engineering	3	2021/2022-till date	
7	TIE 599	Project (Supervision)	6	2016/2017-till date	

Administrative duties at University Level

S/No	Duty	Session
1	Course Level Advisor (200)	2015/2016, 2018/2019, 2022/2023- till date
	Course Level Advisor (100)	2016/2017- till date
2	Member, Departmental Finance Committee	2017/2018- till date
3	Member, Faculty Board of Technology	2015/2016- till date
4	Member, Faculty Board of Examiners	2015/2016- till date

Community Service

1. Secretary, School Management Board, Baptist Nursery and Primary School, University of Ibadan. 2023-till date
 - Document the Board's meeting and prepare minutes of meeting
2. Member, Social Ministry, a Non-Governmental Organisation 2019- till date

- Regular visits to Orphanages with welfare materials
 - Organise empowerment programme for youths
3. Team Member, Touching Lives at Christmas, a Non-Governmental Organisation 2009- till date
- Medical outreaches, counselling and distribution of welfare materials in some designated villages on Christmas day

Work Experience

1. Maintenance Officer,
Bond Chemical Industries Limited, Oyo June - Aug. 2011
2. Research Officer,
Academy of Traumatology & Medical Sciences, Lagos Sept.2011 - Feb. 2012
3. Volunteer Data Analyst,
Department of Immunization, Oyo State Primary Health Care Board,
Oyo State Ministry of Health, Ibadan May 2014 – April 2016

IX Research

(a) Completed

1. A Reliability, availability and maintainability analysis of a lube oil production plant. (Being process for publication)

(b) In progress

1. Development of models for solid waste management

There has been little effort to identify the problems and reconstruction of the solid waste management system in Nigeria. This is a necessary condition before engineering tools can be effectively and efficiently deployed for waste management and control. It has been discovered that these problems cannot be solved by technology alone without human intervention. This study aims at developing a model for solid waste management using soft systems approach by identifying the problems of the existing solid waste management system, comparing model developed with the real world situations and make recommendations.

2. Development of a work study framework for design of optimal workforce size in a vaccination work system

Vaccination has been one of the key public health interventions which have helped in the elimination, eradication and control of life-threatening diseases. The success of any vaccination programme depends largely on the optimal design of the workforce of the vaccine administration work system. Information is however sparse on the design of optimal work system for vaccine administration. The study aims at optimising vaccination work system by developing a work study framework which will aid estimation of vaccination workload for optimal workforce sizing.

3. A Scoping review of work system design in health care

Work system design which is usually associated with productivity in manufacturing offers a wide spectrum of applicability in addressing this challenge of healthcare system. Despite the availability of primary studies on work system design in healthcare, there are sparse published reviews in specific contexts. This scoping review explores the existing evidence to understand the state of the art of work system design in healthcare.

(c) **Project, Dissertation and Thesis**

Ogunmola O. S. (2010) Assessment of Noise Level in a Wooden Furniture Industry
B.Sc Project, Department of Industrial and Production Engineering, University of Ibadan.

Ogunmola O. S. (2014) Development of the contiguous-cells transportation problem
M.Sc Project, Department of Industrial and Production Engineering, University of Ibadan

(X) **Publications**

(a) Books already published: Nil

(b) Chapters in books already published:

1. **Okunade, O.S.**, and Ogueji, K.J., (2020) ‘An Integer Linear Programming Model of a University Soccer Timetabling Problem’. Oluleye, A., Oladokun, V., and Akanbi, O., (eds.) Advancing Industrial Engineering in Nigeria: A Book of Reading. Ibadan; Department of Industrial and Production Engineering, University of Ibadan. pp123- 170.

2. **Okunade, O.S.**, and Habeeb, R. F., (2023) ‘Productivity Improvement of a Small and Medium Enterprise.’. Oluleye, A. E., Oladokun, V.O., and Anyaeche, C. O., Odedairo, B. O., Adebimpe O.A., (eds.) Advancing Work Systems in Nigeria: A Book of Reading Ibadan; Department of Industrial and Production Engineering, University of Ibadan. pp195- 214.

(c) Articles that have appeared in Refereed Conference Proceedings:

3. **Okunade, O.S.**, and Oladokun, V.O. (2020). Towards Vaccine Administration Workload Estimation: Development of a Vaccine Categorization Framework. *Proceedings of the 5th NA International Conference on Industrial Engineering and Operations Management* Detroit, Michigan, USA, August 10 - 14, 2020.

(d) Patents and Copyrights: Nil

(e) Articles that have already appeared in learned journals:

4. Charles-Owaba, O., Oladokun, V. and **Okunade, O.** (2015). Development of the Contiguous-cells Transportation Problem. *Engineering, Technology & Applied Science Research* Vol. 5, No. 4: 825-831. <https://doi.org/10.48084/etasr.546>
5. Oladokun, V.O., Olawuyi, I. T., **Okunade, O.S.**, Anyaeche, C.O. (2017) ISO 9001 Implementation Guide for Organizations in Nigeria. *Journal of NIIE* Vol. 8 pp 100-111.
6. Opaleye, A., **Okunade, O.**, Adedeji, T. and Oladokun, V. (June,2020). Quality Characterisation and Capability Assessment of a Tobacco Company. *American Journal of Theoretical and Applied Statistics* Vol. 9, No. 4:127-135. <https://doi.org/10.11648/j.ajtas.20200904.16>
7. **Okunade, O. S.**, and Daodu, S. A., (2020). A distribution network design for fast-moving consumer goods. *Nigerian Journal of Technology* Vol. 39, No. 4:1050-1057. doi: [10.4314/njt.v39i4.11](https://doi.org/10.4314/njt.v39i4.11)
8. Adegbola, A.M., Adeyeye, A.D., Charles-Owaba, O.E. and **Okunade, O.S.**, (2020). Contiguous-cells transportation model for multi-objective non-pre-emptive production and maintenance scheduling. *Global Journal of Engineering and Technology Advances*, Vol. 5, No.3: 36-49. <https://doi.org/10.30574/gjeta.2020.5.3.0059>
9. **Okunade, O.S.**, Obuseh M.N. and Charles-Owaba, O.E. (2021). Preventive maintenance scheduling of fleet of aircraft using contiguous-cells transportation model: a case study *Int. J. Industrial and Systems Engineering* Vol.39, No.2: 247-269. <https://doi.org/10.1504/IJISE.2021.118287>
10. **Okunade, O.S.**, Oladokun, V.O., Iwu-Jaja, C.J., Jaca, A. and Wiysonge, C.S., (2023). Protocol for a scoping review of work system design in health care. *F1000Research*, Vol.12, p.21 <https://doi.org/10.12688/f1000research.128913.1>

(f.) Books, Chapters in Books and Articles Already Accepted for Publication:

11. Ukpokolo, F. E., **Okunade, O. S.**, Opaleye, A.A., (In press) Optimal Redesign of the Organisation Structure of a Vaccination Work System. *Int. J. of Organisational Design and Engineering*.
12. **Okunade, O.S.**, Osifowokan, A, and Opaleye, A. A., (In press). Optimal location and allocation of vaccination outreach centres. *Int. J. Services and Operations Management*.

(g) Technical Reports and Monographs:

13. **Okunade O.S.** (2019). Design of Work System for Manufacturing of Vertical slide tool. A Technical Report on Post Graduate Work Experience Submitted in partial fulfilment of the requirements for registration by The Council for Regulation of Engineering in Nigeria.

XI. Conferences, Workshops and Trainings

1. International Conference of the Nigerian Institute of Industrial Engineers on the Challenge of Sustainable Engineering Innovations for National Development (EKO 2016). 21st-22nd October 2016.
2. Workshop on Waste Management and Loss Control for Higher Productivity, organised by Industrial Engineering Division NSE and National Productivity Centre, Ibadan 2017.
3. International conference of the Nigerian Institute of Industrial Engineers, Conference Centre, University of Ibadan, Ibadan, Nigeria 8th-9th December, 2017
4. Capacity Building Workshop for Early Career and Postgraduate Researchers in Science and Technology organised by University of Ibadan and MacArthur Foundation Grants, University of Ibadan. 2019.
5. Workshop on Aligning Yourself to the Publishing Process by Elsevier Researcher Academy, 2020
6. 5th North American Industrial Engineering and Operations Management (IEOM) Conference, Detroit, Michigan, USA 10th-14th, August, 2020.
7. Virtual Workshop on New Perspectives in the COVID-19 Era Organised by Organization for Women in Science for the Developing World (OWSD), University of Ibadan Chapter. 27th January, 2021.
8. Blended Workshop on Time management and research ethics in COVID-19 Era Organised by Organization for Women in Science for the Developing World (OWSD), Ibadan Branch. 18th August, 2021.
9. CITI Program Course on Responsible Conduct of Research under West African Bioethics Training Program. March 2022.
10. Seminar on “Sciences for Sustainable Development” organised by International Council for Education Research and Training (ICERT) on the occasion of UN/UNESCO “World Science Day” 10 November, 2022.
11. Cochrane South Africa Virtual National Symposium on “Research evidence in a post-truth world: *Tackling the information, misinformation and disinformation affecting healthcare decision making*” organised by Cochrane South Africa, South African Medical Research Council, Cape Town, South Africa 22 to 23 November 2022.

12. IAS-Science Institute 2022 on “STEAM as Possibility: Interdisciplinary Collaboration and Multidisciplinary Approaches” by Ife Institute of Advanced Studies 29 November to 03 December 2022.
13. International conference of the Ibadan Humboldt-Kolleg 2024 on “Empowering Women in Academia: Advancing Inclusion, equality and Diversity” Otunba Subomi Balogun Conference Centre, University of Ibadan, Ibadan, Nigeria 5th-8th March, 2024.
14. Workshop on Building a career path in academia: Guiding principles for the female academic w Organised by Organised by Organization for Women in Science for the Developing World (OWSD), Ibadan Chapter. 22nd May, 2024