CURRICULUM VITAE

A. GENERAL INFOMATION

1.	Name:	Olubusayo Felix OLADEJO.
2.	Place of birth:	Ibadan
3.	Gender:	Male
4.	Nationality:	Nigerian
5.	State of Origin:	Oyo
6.	Local Government Area:	Lagelu
7.	Marital Status:	Married.
8.	Name and Relationship of Next of Kin: With Telephone Number.	Mrs Emilia Seleipiri OLADEJO / Wife 08032549641
9.	Permanent Address:	No 8, Road 15, Lagada Community, Agunbelewo, Osogbo, Osun State
10.	E-mail Address:	olubusayo.oladejo@uniosun.edu.ng
11.	Registration with Research Gates: Yes/ No	Yes
12.	If Yes, Provide the Link:	https://www.researchgate.net/profile/Olubusayo-Oladejo
13.	If No, Why:	Not Applicable
14.	Registration with Google Scholar: Yes/ No	Yes
15.	If Yes, Provide the Link:	https://scholar.google.com/citations?hl=en&user=_q_Tu1AAAAAJ
16.	If No, Why:	Not Applicable
17.	Cell Phone Number:	08037699119
18.	College/ Faculty/ Unit:	College of Science, Engineering and Technology/ Faculty of Basic and Applied Sciences.
19.	Department:	Physics
20.	Position on First Appointment with the University:	Assistant Lecturer
21.	Present Position and Salary (Grade level and step):	Senior Lecturer (CONUASS 5 Step 2)
22.	Date of Present Position (Promotion/Regrading):	1st October, 2025 (Promotion)
23.	Is Your Appointment Confirmed? Yes/ No	Yes
24.	If No. Why Not?	Not Applicable
25.	Date of Confirmation of Appointment:	2nd December, 2020

B. EDUCATIONAL BACKGROUND

1. Educational Institutions attended with dates:

i.	Obafemi Awolowo University, Ile-Ife.	May, 2016 – November 2019.
ii.	Obafemi Awolowo University, Ile-Ife.	April, 2010 – November 2012
iii.	Obafemi Awolowo University, Ile-Ife.	June, 2003 – January, 2008.
iv.	Community Grammar School, Itamarun, Ile-Ife.	September, 1998 – June, 1999.
v.	Lagelu Grammar School, Ibadan, Oyo State.	January, 1990 – December, 1995

2. Academics and Professional Qualifications with Dates/ Issuing Authority and Class of Degree/ Grade Level must be indicated

i. Ph.D (Nuclear Science & Engineering), November, 2019 from Obafemi Awolowo University, Ile-Ife.

ii. M. Sc (67 B+) (Engineering Physics), November, 2012 from Obafemi Awolowo University, Ile-Ife.

iii. B. Sc (Second Class Honours (Upper Division)) (Engineering Physics), January, 2008 from Obafemi Awolowo University, Ile-Ife.

iv.	WASSC	June, 1999	WAEC
v.	WASSC	June, 1995	WAEC

3. Other relevant Qualifications: Nil

4. Honours, Awards and Distinctions:
Sponsorship award for Ph.D Programme under NEEDS Assessment Intervention Fund for Staff Training and Development. February, 2019.

5. Research Fellowship with Dates: Nil

C. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM (including names and addresses of employers)

i.	Physics Teacher	Dudley Reeves College, Akute Road, Alagboole Akute, Ogun State. September, 2009 – March, 2010.
ii.	Physics Teacher	Federal Science and Technical College, Zuru, Kebbi State. August, 2008 – July, 2009.

D. WORK EXPERIENCE IN OTHER UNIVERSITIES

Assistant Lecturer	Wesley University of Science and Technology Ondo, Ondo State. April, 2013 – November, 2015.

E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY:

i. Senior Lecturer – Department of Physics, October 1, 2025 – Date.
ii. Lecturer I – Department of Physics, October 1, 2022 – September 30, 2025.
iii. Lecturer II – Department of Physics, October 1, 2019 – September 30, 2022.
iv. Assistant Lecturer – Department of Physics, September 25, 2018 – September 30, 2019
v. Assistant Lecturer – Department of Mathematical and Physical Sciences, November 16, 2015 – September 24, 2018

F. CO-CURRICULAR PROFESSIONAL EXPERIENCE: Nil

G. MEMBERSHIP OF PROFESSIONAL BODIES:

1. Member – Nigerian Institute of Physics (Membership Number: OM/21/120)

H. SERVICE:

(i) **University:**

1. Department:

a.	SIWES Departmental Representative	November, 2015 – October, 2023
b.	Level Adviser: (i) 100 Level	2016/2017 Session
	(ii) 200 Level	2017/2018 Session
	(iii) 300 Level	2018/2019 Session
	(iv) 400 Level	2019/2020 Session
	(v) 100 Level	2020/2021 Session
	(vi) 200 Level	2021/2022 Session
	(v) 300 Level	2022/2023 Session
	(vi) 400 Level	2023/2024, 2024/2025 Session
c.	Departmental Examination Officer	2020/2021, 2021/2022, 2022/2023, 2023/2024 Sessions

2. Faculty:

a. Chairman, Faculty of Basic and Applied Sciences' Examination/ Lecture Time-table Committee	2024/2025 Session
b. Member, Faculty of Basic and Applied Sciences' Examination/ Lecture Time-table Committee	October, 2018 – September 2024
c. Member, Faculty of Basic and Applied Sciences' Annual Lecture Committee	2017/2018, 2018/2019 Sessions

3. College:

a. Chairman, College of Science, Engineering, and Technology's Examination and Lecture Time-table Committee	September, 2024 – Date
b. Sub-Dean (CSET) Students' Affairs	2020/2021, 2021/2022, 2022/2023 Sessions

4. University:

a. Vice-Dean Students' Affairs	August, 2021 – July 2022
b. Supervisor for Electoral Committee of Osun State University Student Union	2021, 2022, and 2023 Elections
c. Member, Ceremonial Committee	April, 2022 – Date

(ii) **Community:** Nil

(iii) **National:**

1. National Youth Service Corps (NYSC)	August, 2008 – July, 2009
2. Joint Admission and Matriculation Board (UTME Proctor)	2023 – Till Date

(vi) **International:**

Journal Reviewer

1. Journal of Environmental Monitoring and Assessment (Springer Nature)
2. Journal of Discover Public health (Springer Nature)
3. Journal of Discover Environment (Springer Nature)
4. Journal of Environmental Geochemistry and Health (Springer Nature)
5. Journal of Carbonates and Evaporites (Springer Nature)
6. International Journal of Environmental Health Research (Taylor & Francis)

I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION

1. Undergraduate Courses

SEMESTER	COURSE CODE	COURSE TITLE	UNIT	NO OF LECTURERS	% INVOLVEMENT
Harmattan	PHY 103	General Physics III	2	4	25
	PHY 107	Experimental Physics IA	1	12	8.3
	PHY 215	Elementary Modern Physics I	3	2	50
	PHY 315	Nuclear and Particle Physics I	2	1	100
	PHY 405	Mathematical Method in Physics II	3	2	50
	PHY 497	Project I	2	1	100
Rain	PHY 102	General Physics II	3	12	8.3

PHY 104	General Physics IV	3	12	8.3
PHY 108	Experimental Physics II	1	12	8.3
PHY 206	Electric Circuit and Electronics	3	2	50
PHY 408	Atomic and Molecular Spectroscopy	3	1	100
PHY 410	Nuclear and Particle Physics II	2	2	50
PHY 498	Project II	4	1	100

2. Postgraduate Courses

SEMESTER	COURSE CODE	COURSE TITLE	UNIT	NO OF LECTURERS	% INVOLVEMENT
Harmattan	PHY 701	Methods of Mathematical Physics	3	1	100
	PHY 705	Nuclear Structure I	3	1	100
	PHY 706	Nuclear Reaction	3	1	100
	PHY 708	Electromagnetic and Nuclear Interaction	3	1	100
	PHY 714	Radiation Detection and Measurement	3	1	100

J. GRADUATE STUDIES SUPERVISION (if any): 03

1. Muizat Gboyeola UTHMAN (PHE/2017/0005). **M. Sc. Project:** Exploring the potential of electrosynthesized of ZnO/MoO_3 thin film heterostructure for ultraviolet radiation detection.
2. Olutunde Michael OGUNTUNDE (2023/52752). **M. Sc. Project:** Assessment of heavy metal concentrations and associated environmental and health effects in soils from selected gold mining sites in Osun State, Southwest, Nigeria**.**
3. Muritadoh Adebayo KOLAWOLE (2022/43748). **M. Sc. Project:** Assessment of radiological hazards associated with exposure to NORMs from selected active gold mine tailings in Nigeria.

K. PUBLICATIONS:

Thesis/ Dissertation :

a. Ph.D. Project. Solution to Multigroup Neutron Diffusion Equation in Cylindrical Geometry using an Unstructured-grid Finite Element Method.
(Dissertation submitted to Post Graduate College, Obafemi Awolowo University, 2019).

b. **M.Sc. Project.** Isotopic Speciation and Finger-printing of Radionuclides Content of Tin-mining Tailings from Jos Plateau, Nigeria.
(Thesis submitted to Post Graduate College, Obafemi Awolowo University, 2012).

c. **B.Sc Project.** Trace Element Characterization of Harmattan Dust.
(Thesis submitted to Physics Department, Obafemi Awolowo University, 2007).

(i) Books (authored/co-authored): Nil

(ii) Books (edited/co-edited): Nil

(iii) Monographs: Nil

(iv) Chapters in books: Nil

(v) Articles in learned journals:

1. ***Oladejo O. F.,** Al-Senani G. M., Akintayo O. A., Uthman M. G., Al-Qahtani S. D., Olatona G. I., and Adewinbi S. A. (2025). Band engineering in ZnO/MoO_3 heterojunction photodetector for improved photoelectrical response toward highly rated ultraviolet radiation sensing. ***Journal of Physica B: Condensed Matter,*** *706*, 417155. (Published by Elsevier) https://doi.org/10.1016/j.physb.2025.417155 **(Offshore)**
2. *Ogundele L. T., Ayeku P. O., **Oladejo O. F.** (2024). Concentrations and probable health risks of potentially toxic metals (Pb, Cd and Cr) in some Nigerian lipstick products. *Journal of Trace Elements and Minerals.* (Published by Elsevier) https://doi.org/10.1016/j.jtemin.2024.100142 **(Offshore)**
3. *Adewinbi S. A., **Oladejo O. F.**, Animasahun L. O., Alharthi M. N., Ibraheem M. A., Kim H (2024). Performance tweaking of Co_3O_4 UV radiation detector via zirconium dopant microstructural and photo-electronic engineering. *Journal of Alloys and Compound* (Published by Elsevier) https://doi.org/10.1016/j.jallcom.2024.175247 **(Offshore)**
4. *Kolawole M. K., Akin-awoniran B. O., Odeyemi K. A., Adigun A. A., Musibau A. Ibrahim M. A., **Oladejo F. O.** (2024). On the Numerical Simulation of the Effect of Vaccine on Measles Using Variational Iteration Method. ***Jurnal Diferensial;*** Vol.6(1),2024, 16–28 (Published by Nusa Candana University, Indonesia) https://doi.org/10.35508/jd.v6i1.11954 **(Offshore)**
5. ***Oladejo, O.F**., Olukotun, S.F., Gbenu, S.T., Ogundele, L.T., Inuyomi S.O., and Fakunle, M.A (2023). Evaluation of Natural Radioactivity and Associated Radiological Risks of Farmland Soil: A Study of a Campus Farmland of Osun State University, Nigeria. ***Polytechnica* (2023).** (Published by Springer) https://doi.org/10.1007/s41050-023-00043-x **(Offshore)**
6. Shittu H. O., Olarinoye I. O., Kolo M. T., Amadi A. N., Olukotun S. F., **Oladejo O. F** and Samuel G. E. K. (2021). Mapping of Natural Gamma Radiation (NGR) Dose Rate Distribution around Gidan-Kwano Area, Minna, North-Central Nigeria. ***Federal University Wukari, Trends in Science & Technology Journal*** 6 (3): 931 – 936. (Published by Federal University Wukari, Nigeria) http://ftstjournal.com/uploads/docs/63%20Article%2048.pdf **(Onshore)**
7. Fakunle M. A., Olatona G. I., Alabi O. O., Adeleke J. T., **Oladejo O. F.,** and Agbaje W. B. (2021). Evaluation of Total Dissolved Solids (TDS) in Groundwater around a Poultry Farm Using Electrical Resistivity Method and Geochemical Method. ***Journal of the Nigerian Association of Mathematical Physics.*** 63: 87 – 92. (Published by Nigerian Association of Mathematical Physics **(Onshore)**)
8. **Oladejo O. F.,** Ogundele L. T., Inuyomi S. O., Olukotun S. F., Fakunle M. A., and Alabi O. O. (2021). Heavy metals concentrations and naturally occurring radionuclides in soils affected by and around a solid waste dumpsite in Osogbo metropolis, Nigeria. ***Journal of Environmental Monitoring Assessment.*** (2021) 193:730. (Published by Springer) **https://doi.org/10.1007/s10661-021-09480-6 (Offshore)**
9. Alabi O. O., Sedara S. O., Adeyemi K, **Oladejo F.**, Fakunle M. A. and Ayedun F. (2021). Variations in the Effects Caused by Magnetic Field on Chlorophyll, Nitrogen, Calcium, and Iron Contents in Species of Vegetable Plants. ***Tanzania Journal of Science*** 47(2): 841-846, (Published by College of Natural and Applied Sciences, University of Dar es Salaam). https://dx.doi.org/10.4314/tjs.v47i2.38 **(Offshore)**
10. Olukotun S.F., Gbenu S.T., **Oladejo O.F.**, Balogun F.O., Sayyed M.I., Tajudin S.M., Obiajunwa E. I., Fasasi M.K. (2021). The effect of incorporated recycled low density polyethylene (LDPE) on the fast neutron shielding behaviour (FNSB) of clay matrix using MCNP and PHITS Monte Carlo codes. ***Journal of Radiation Physics and Chemistry,*** 182 (2021):109351 (Published by Elsevier). **https://doi.org/10.1016/j.radphyschem.2021.109351 (Offshore)**

11. Olukotun S.F., Gbenu S.T., **Oladejo O.F.,** Sayyed M.I., Tajudin S.M., Amosun A.A., Fadodun O.G., and Fasasi M.K. (2020). Investigation of gamma ray shielding capability of fabricated claypolyethylene composites using EGS5, XCOM and Phy-X/PSD. ***Journal of Radiation Physics and Chemistry*** 177 (2020) 109079. (Published by Elsevier) **https://doi.org/10.1016/j.radphyschem.2020.109079 (Offshore)**
12. **Oladejo O. F.,** Olukotun S. F. Ogundele L. T., Gbenu S. T., and Fakunle M. A., (2020). Radiological risk assessment of naturally occurring radioactive materials (NORMS) from selected quarry sites in Edo State, South-south, Nigeria. ***Journal of Environmental Earth Sciences*** 79 (2020):93. (Published by Springer) **DOI: 10.1007/s12665-020-8842-7 (Offshore)**
13. Olukotun S. F., Kulwinder S. M., Gbenu S.T., Ibitoye F.I., **Oladejo O.F.**, Amit J., Tekin H.O., Sayyed M.I., Fasasi M.K., Balogun F.A., and Turgay K. (2019). Neutron-shielding behaviour investigations of some clay-materials. ***Journal of Nuclear Engineering and Technology*** 51 (2019): 1444 – 1450. (Published by Elsevier) **DOI:10.1016/j.net.2019.03.019. (Offshore)**
14. Fakunle, M. A., Alabi, O. O., Olatona, G. I., **Oladejo, O. F.** and Adeleke, J. T. (2019): 2D Resistivity Tomography Survey for Leachate Plume from Isundunrin Poultry Disposal Pits. ***Fountain Journal of Natural and Applied Sciences*** 8(2): 1-10. (Published by Fountain University, Osogbo) https://doi.org/10.53704/fujnas.v8i2.230 **(Onshore)**
15. Olukotun S. F., Gbenu S. T., Ibitoye F. I., **Oladejo O. F.,** Shittu H. O., Fasasi M. K., and Balogun F. A., (2018). Investigation of gamma radiation shielding capability of two clay materials. ***Journal of Nuclear Engineering and Technology*** 50 (2018): 957 – 962. (Published by Elsevier) **DOI: 10.1016/j.net.2018.05.003. (Offshore)**
16. Gbenu S. T., **Oladejo O. F.,** Olukotun S. F., Makinde O. W., Fasasi M. K., and Balogun F. A., (2016). Assessment of radioactivity and radiological hazard in commercial tiles used in Ife-Central local government area of Osun State, Nigeria. ***Egyptian Journal of Basic and Applied Sciences*** 3 (4): 377–382. (Published by Elsevier) **DOI: 10.1016/j.ejbas.2016.08.002. (Offshore)**
17. Gbenu S. T., **Oladejo O. F.,** Alayande O., Olukotun S. F., Fasasi M. K., and Balogun F. A., (2015). Assessment of Radiological Hazard of Quarry Products from Southwest Nigeria. ***Journal of Radiation Research and Applied Science*** 9: 20 – 25. (Published by Elsevier) **DOI: 10.1016/j.jrras.2015.08.004. (Offshore)**
18. Olise F. S., **Oladejo O. F.,** Almeida S. M., Owoade O. K., Olaniyi H. B., and Freitas M. C., (2014). Instrumental Neutron Activation Analyses of Uranium and Thorium in Samples from Tin Mining and Processing Sites. ***Journal of Geochemical Exploration*** 142 (2014): 36–42. (Published by Elsevier) **DOI: 10.1016/j.gexplo.2014.01.004. (Offshore)**

* Indicated published articles after the last promotion.

(vi)	**Review Articles:**	Nil
(vii)	**Refereed Conference Proceedings:**	Nil
(viii)	**Un-refereed Conference Proceedings:**	Nil
(ix)	**Book Reviews:**	Nil
(x)	**Technical Reports:**	Nil
(xi)	**Patents and Inventions:**	Nil
(xii)	**Online journal articles (for journals with no hard copies only):**	Nil

L. CURRENT RESEARCH ACTIVITIES

i. Funded Research: Nil

ii. Non-funded/Self-Sponsored Research:

a. Radiation level assessment of household water sources in Osun State.
b. Assessment of Radiological Hazard of selected farmland soil in Osun State
c. Heavy metals concentrations in soils affected by solid waste in Ibadan, Oyo State
d. Radiation shielding capability of incorporated recycled low density composite materials using MCNP and PHITS Monte Carlo codes.

M. CONFERENCES ATTENDED WITH DATES

i. Nigeria Institute of Physics 33rd Annual Conference held at University of Ibadan, from 9th – 13th November, 2010.
ii. Nigeria Institute of Physics 34th Annual Conference held at Centre for Energy Research and Development, Obafemi Awolowo University Ile-Ife, from 11th – 15th October, 2011
iii. Nigeria Institute of Physics 40th Annual Conference held at Federal University of Technology Minna, from 20th – 24th November, 2017.
Paper presented: Neutron Shielding Properties of Clay Material Using WinNC-Toolkit.
iv. Nigeria Institute of Physics 42th Annual Conference held at Federal University of Technology Owerri, from 18th – 22th November, 2019.
Paper presented: Solution to Two-Group Neutron Diffusion Equation in Cylindrical Geometry: An Unstructured Grid Finite Element Scheme Formulation.
v. Nigeria Institute of Physics 43rd Annual Conference held at Nnabdi Azikiwe University, Akwa, Anambra State from 21st to 26th September, 2021.
Paper presented: Heavy Metal and Radionuclide Concentration in Soils Affected by Solid Waste in Osogbo Metropolis, Nigeria.
vi. Nigerian Association of Mathematical Physics 31st Annual Colloquium and Congress held at Osun State University, Osogbo from November 3 – 5, 2021.

N. EXTRAL-CURRICULAR ACTIVITIES: Biking

O. ANY OTHER RELEVANT INFORMATION: Nil

P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE:

i. ***Band engineering in ZnO/MoO_3 heterojunction photodetector for improved photoelectrical response toward highly rated ultraviolet radiation sensing*** **(1).** This study fabricated an heterojunction UV radiation PD device utilizing the intrinsic UV absorption power of the p-type ZnO nanolaminate and charge separation potential of n-type MoO_3 via a facile electrochemical deposition method.

ii. ***Assessment of heavy metals concentrations and their associated environmental and health effect*** **(2 and 8).** These studies provide the concentrations of heavy metal in the environment, the burden these concentrations may place on the ecological system, and the health effect it may pose to expose populace.

iii. ***Performance tweaking of Co_3O_4 UV radiation detector via zirconium dopant microstructural and photo-electronic engineering*** **(No. 4).** This study reveals that incorporation of the dopant into the host matrix can enable enhanced- UV photodetector performance with a high photocurrent-to-dark current ratio and optimum radiation responsivity

iv. ***Assessment of Radiological Hazard*** **(Nos. 5, 6, 16, and 17).** These work report the activity concentration, gamma absorbed dose rate, radium equivalent activity, annual effective dose and various radiological hazard indices from sources in Nigeria and observed that a few of the measured radiological parameters are higher than permissible limit. Hence harmful radiation effects may be posed to the public as a result of the natural radioactivity if not controlled.

v. ***A Study to Estimate Total Dissolved Solids (TDS) in Groundwater around a Poultry Farm using Electrical Resistivity Method and Geochemical Method*** **(7).** This study provides an alternative technique of identifying useable aquifer potentials based on Total Dissolved Solids (TDS) concentration.

vii. ***Investigation of radiation shielding capability of clay materials*** **(10, 11, 12, and 13).** This work provide experimental and theoretical results on the neutron and gamma radiation shielding capability of clay materials from Southwestern Nigeria.

viii. ***Instrumental Neutron Activation Analyses of Uranium and Thorium in Samples from Tin Mining and Processing Sites*** **(18).** The research result provide useful information required to determine not only the heads of decay series but also the isotopic speciation and fingerprinting of the radionuclide.

Olubusayo Felix OLADEJO (Ph.D) ……

Name **Signature and Date**