



Curriculum Vitae

Personal Data:

Name: PETER AKAYUURE (PhD), Senior Lecturer
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Brief Profile

Dr. Peter Akayuure is a Senior Lecturer and former head of the National Centre for Research into Basic Education (NCRIBE) and the Centre for School and Community Science and Technology Studies (SACOST), University of Education, Winneba, Ghana (<https://www.uew.edu.gh/search/node/akayuure>). Peter has initiated research partnerships, coordinated research project teams, workshops and documented research work on contextualizing teaching of science and mathematics in Ghana. He is also the chairman of STEM Research Working group which conducts research and professional teacher training workshops (<https://www.youtube.com/watch?v=at0cn14aoc0>), <https://cscuk.fcdo.gov.uk/using-indigenousbased-practices-to-improve-girls-access-to-stem-education-in-ghana/>). He and colleagues have been working on a project on “*Evidenced based research for bridging the gender gap in STEM*” (with funding support from Committee for Women in Mathematics, International Mathematics Union) and “*Using indigenous-based practices to improve girls’ access to STEM education in Ghana*”. Peter had his fellowship and doctoral training at the University of Vyvaskyla, Finland and holds PhD in Mathematics Education at the University of Education, Winneba. He has published over 17 research works and 4 books in mathematics education, technology integration, problem solving and mathematization. His fieldwork and data analysis experiences in funded projects date back to 2013 when he was recruited as a survey administrator to interview university staff and students on “Universities, Employability and Inclusive Development project (2013-16)” commissioned by the British Council. Peter served as reviewer of 2022 secondary education curriculum writing and contributor of the Ghana National Assessment Framework accompanying the new basic school Curriculum implemented in 2018. He has also been contributing to the publication of Basic School textbooks for the National Council for Curriculum and Assessment (NACCA) under the Ministry of Education, Ghana. He was one of the pioneers of the UEW team trained on instructional design and learning management systems in 2012 and has courses on Moodle platform. Currently, Peter and his colleagues are working on “Solid waste source separation project under GIZ/CFF/C40 cities and Accra Metropolitan Assembly Climate Action Plan.”

Professional Qualification(s):

<i>Rank</i>	<i>Supporting evidence</i>	<i>Period</i>
1. Senior lecturer	Promotion letter	30 th July, 2015
2. Lecturer	Appointment letter	28 th June, 2010

Professional Responsibilities:

<i>Position</i>	<i>Office/Location</i>	<i>Period</i>
1. Graduate coordinator	Department of Mathematics Education	2023 to 2024
2. Reviewer	National Council for Curriculum and Assessment (NACCA) Senior High School Core, Elective) Mathematics Curriculum	2022 to date
3. Ag. Head	Centre for School and Community Sciences and Innovation Studies (SACOST)	2021 to 2022
4. Ag. Head	National Centre for Research into Basic Education (NCRIBE)	2019 to 2021
5. External assessor	College for Distance Education (CODE) University of Cape Coast (UCC) – promotions to Senior lecturer rank	2021 to date
6. External assessor	C. K. Tedam University of Technology and Applied Sciences, Navrongo – promotions to Senior lecturer rank	2021 to date
7. External assessor	EP College of Education, Bimbila and St. Joseph Colleges of Education, Bechem - promotions to senior tutor rank	2020 to date
8. External moderator	UEW Affiliated Colleges of Education (Blue Crest College, Ghana, Entrepreneurship Training Institute, etc.)	2019 to date
9. Postgraduate coordinator	Department of Mathematics Education, UEW	2017-2019
10. Reviewer	International Journal of Research in Education and Science	2017
11. Mathematics programme coordinator	Mathematics Courses, College of Distance Education and e-Learning (CODEL)	2016 to 2022
12. Examinations officer	Department of mathematics Education, UEW	2015 to 2017
13. Academic counsellor	Department of Mathematics Education, UEW	2010 to date
14. MPhil Thesis supervisor and internal assessor	Department of Mathematics Education Department of Basic Education College for Distance and e-Learning (CODEL)	2016 to date

Education

<i>Qualification/Certificate obtained</i>	<i>Name of Institution Attended</i>	<i>Date</i>
• PhD in Mathematics Education	University of Education, Winneba	2019
• Doctoral Training and Fellowship	Faculty of Mathematics and Science, Department of Mathematics and Statistics, University of Jyväskylä, Finland	2018
• MPhil in Mathematics Education	University of Education, Winneba	2009
• B.Ed. in Mathematics (first class)	University of Education, Winneba	2005

Career History

<i>Position/Title</i>	<i>Name of Institution</i>	<i>Date</i>
A. Senior Lecturer <i>Responsibilities:</i> <ul style="list-style-type: none"> • Teaching (Undergraduate, M.Ed., MPhil, Ph.D.) • Research (Mathematics curriculum, instruction, ICT and assessment) • Grant sourcing and proposal writing for funds • Workshops for STEM teachers • Seminars for postgraduate students • Undergraduate project work supervision • M.Ed./MPhil/Ph.D. Thesis supervision • Internal/ external assessment of thesis/promotions • Internship supervision • Community service 	University of Education, Winneba	2015 to date
B. Lecturer <i>Responsibilities:</i> <ul style="list-style-type: none"> • Teaching (Undergraduate) • Research (Mathematics instruction, assessment, ICT, game pedagogy) • Undergraduate project work supervision • Undergraduate internship supervision • Community service 	University of Education, Winneba	2010-2015
C. Part-time lecturer <i>Responsibilities:</i> <ul style="list-style-type: none"> • Teaching (Undergraduate, post-dip.) • Undergraduate project work supervision • Setting of quiz and examination questions • Monitoring examinations at study centres 	IEDE/IDeL/CODEL UEW	2012 to date
D. Lecturer <i>Responsibilities:</i> <ul style="list-style-type: none"> • Teaching (Statistics courses) • Research (study motives and achievement) • Supervision of Student attachment 	Bolgatanga Polytechnic	2009 to 2010

- HND project work supervision
- Community service

E. Mathematics Teacher

Bolgatanga Girls
SHS

2005 to 2009

Responsibilities:

- Teaching (Core and Elective mathematics)
- Academic counselling

Details of teaching experience at University of equivalent level:

**2010 to date: Department of Mathematics Education, University of Education,
Winneba**

<i>Course</i>	<i>Level</i>	<i>Period</i>
(1) <i>Ph.D. in Mathematics Education and Ph.D. in Science Education</i>		
GRM 901 Advanced Quantitative research	900	2020 to date
SED 911 Advanced Quantitative research	900	2020 to date
MTC 921 Technology in Mathematics Education	900	2021 to date
COM Advanced Quantitative Research (Sch. of Com & Media)	900	2022
(2) <i>MPhil in Mathematics Education</i>		
MTC 502 Elementary Theory of Numbers	700	2018 to date
(3) <i>M.Ed. Mathematics by Sandwich</i>		
MED 504/713: Research methods and project Management	700	2017 to 2021
(4) <i>4-yr BSc. Mathematics Education</i>		
MATD 242M: Vector Algebra	200	2014 to 2017
MATD 231: Trigonometry	200	2011 to 2013
MATD 363M: Numerical analysis	300	2011 to 2014
PMTD 241: Methods of Teaching SHS Mathematics I	300	2011 to 2012
ICTD 231: Courseware Design/Dev't in Mathematics using Multimedia Tools	200	2010 to 2018
ICTD 361: Web Technology for Mathematics Teacher	300	2012 to date
EPD 351: Research Methods/Design in Mathematics	300	2017 to 2021
EDPD 351: Pre-Internship Seminar	300	2011to date
EDPD361: Post-Internship Seminar	400	2011to date

2011 to date: College of Distance Education (CODeL), formally Institute for Distance and e-Learning (earlier known as Institute for Educational Development and Extension)

<i>Course</i>	<i>Level</i>	<i>period</i>
(1) <i>M.Ed. Mathematics by distance</i>		
MED 502: Introduction to Real Analysis	500	2016 to date
MED 503: Advanced Topics in Geometry	500	2017
MED 504: Linear Algebra		2016 to date
MTE 505: Curriculum Development, Implementation and Evaluation in Mathematics	500	2018
(2) <i>Post-Diploma by distance</i>		
MAB 432: Algebra II and Calculus	200	2011 to 2015
MAB 421: Algebra I	200	2011 to 2015
MAB 321 Basic Statistics and Probability	300	2011 to 2015
MAB 442 Mathematics Methodology	300	2012 to 2015
(3) <i>4-year B.Sc. Mathematics Education by distance</i>		
MATD 111: Algebra I	100	2016 to 2017
MATD 121: Algebra II	100	2016 to 2017
Research Methods (2009-2010)		

2009-2010: Statistics Department, Bolgatanga Technical University

<i>Course</i>	<i>level</i>	<i>period</i>
Probability I, II and III	100	2009-2010
Sample Survey II	100	2009-2010
Statistical Methods 1 and II	200	2009-2010
Operation Research	200	2009-2010
Research Methods	200	2009-2010

Publications, Research/Projects

a. National/International Research Projects participated

Experience with Funded Projects and Consultancies

Name of the Funding Agency and my role	Details	Date
1. Member (of a team of consultants that won GIZ/CFF/C40 cities consultancy grants.	GHS749,300 Consultancy Service for the Development of Communication and Community Engagement Strategy and Equity & Inclusion Studies for Community-Based Municipal Solid Waste Source Separation and Compost Project in Accra, Ghana	March, 2023 to March, 2024
2. One of two persons that won grant from Committee for Women in mathematics, International Mathematical Union (Team- Dr Peter Akayuure and Mss Dorcas Attuabea Addo) of the STEM Research Workshop Group, UEW	§3000.00 Evidence based approach to bridging the gender gap in Mathematics/STEM in West Africa	January 2022
3. Part of (Chair) STEM Research Working Group, UEW lead by Cynthia Jebuni-Adanu that won a Commonwealth scholarship grant as Commonwealth Professional Fellow from Ghana	£4,000.00 for Using indigenous-based practices to improve girls' access to STEM education in Ghana	February, 2023
4. Part of the UEW team that won grant from National Teaching Council in conjunction with T-TEL (survey administrator and data analyst)	An Evaluation of the Ghana Teacher Licensing Examinations	2021 to 2022
5. Part of UEW team commissioned by USAID Partnership For Education: Learning (data analyst)	Language Mapping Study in Ghana	2018 to 2019
6. British Council commissioned study led by Prof. Eric Ananga at National Centre for Research into Basic Education (NCRIBE), UEW (survey administrator and data analyst)	Universities Employability And Inclusive Development Project: Repositioning Higher Education in Ghana, Kenya, Nigeria and South Africa	2013 to 2016

b. Referred Conferences Proceedings/Articles

<i>Author (s)</i>	<i>Year</i>	<i>Title of paper</i>	<i>Conference</i>	<i>Place</i>
Akayuure, P. & Sakyi-Hagan, N.	2022	Academic Integrity of Assessment Results in the Digital Space: The UEW Experience	International Conference on Teaching, Assessment and Learning in the Digital Age, digiTAL2K,	South Africa
Owu-Annan Chris & Akayuure, P.	2022	Senior high School girls attitudes towards mathematics education	International Multidisciplinary Conference for Postgraduate students	UEW, Ghana
Akayuure, P.	2019	Spatial competency of prospective teachers to teach shape and space at basic schools in Ghana	Proceedings of the 2nd International Conference of Engineering, Science and Mathematics Education	North Cyprus
Akayuure, P. Ali, A. C. & Hayford	2021	Student-teachers with visually impaired didactic notions of the triangle	HKERA-APERA International Conference 2021 on the theme: Connectivity, inclusivity and sustainability	Hong Kong
Akayuure, P.	2021	Use of vclass in mathematics education delivery: The UEW Experience	OCCE 2021 Digital Transformation of Education and Learning (DTEL) conference	Finland
Ali, C. A. & Akayuure, P.	2021	Didactics has evolved to digital age didactics	DigiTal 2K International Conference on Teaching, learning and assessment in the digital Age	South Africa
Akayuure, P. Nabie, M. J. & Raheem, K.	2021	Thinking Mathematical: The present transformational digital education as challenged by Covid-19 Pandemic	OCCE 2021 Digital Transformation of Education and Learning (DTEL) conference	Finland

Akayuure, P. & Ali, A. C	2021	Indigenization of the concreteness fading principle in teaching multiplication of 1-digit Numbers by 2-digit Numbers	Programme of the 26th Annual National Congress (online) of the Association for Mathematics Education of South Africa (AMESA-2021)	South Africa
Akayuure, P. & Ali, C. A.	2016	A teaching experiment involving indigenous <i>bukre</i> game in mathematics lessons.	Innovative Education for National Transformation and Development in Africa in the 21 st Century: ERNWACA Conference	Ghana, Windy Lodge, Winneba
Ali, C. A. & Akayuure, P.	2014	Education and Sustainable Development; Mathematics as a tool for enhancing competitiveness and employability of vocational training students in Ghana	International Applied Research Conference: Research for Development Education and Sustainable Development	Koforidua, Ghana

c. Peer-Reviewed Journal Articles

1. **Akayuure, P.** Oppong, R. A. Addo, D. A. & Yeboah, D. O. (2022). Geometric Thinking Behaviours of Undergraduates on-Entry and at-Exit of Online Geometry Course. *Science Journal of Education*.10 (5) 155-163.
2. **Akayuure, P.** (2022). Use of Vclass in Mathematics education: The UEW Experience. In Passey, D., Leady, D. & Williams (editors). *Digital transformation of education and learning-past, present and future*, IFIP Advances in Information and Communication Technology series, volume 642, Springer publishing.
3. Bervell, V. A. & **Akayuure, P.** (2022). Examining Senior High School Girls' Thinking Levels in Solving Problems on Circle Theorems. *International Journal of Secondary Education*. 10 (4), 127-135.
4. Owu-Annan, C., Assuah, C. K., & **Akayuure, P.** (2022). Female students' Attitude towards the learning of Mathematics: Empirical Evidence from a High School in Central Region, *International Journal of Innovative Science and Research Technology*, 7 (1),1811-1816.
5. **Akayuure, P.** (2021). Classroom assessment literacy levels of mathematics teachers in Ghanaian senior high schools. *Contemporary Mathematics and Science Education*, 2(2), ep21013. <https://doi.org/10.30935/conmaths/11286>.
6. **Akayuure, P.** (2021). Preservice teachers' content knowledge and learning obstacles in shape and space. *Asian Research Journal of Mathematics*, 17(7), 49-60. DOI: 10.9734/arjom/2021/v17i730318.

7. Armah, S. E., **Akayuure, P.**, & Armah, R. B. (2021). A comparative study of male and female distance learners' mathematics achievement. *Contemporary Mathematics and Science Education*, 2(1), ep21001. <https://doi.org/10.30935/conmaths/9288>
8. **Akayuure, P.** (2019). Spatial competency of prospective teachers to teach shape and space at basic schools in Ghana. Proceedings of the 2nd International Conference of Engineering, Science and Mathematics Education. North Cyprus / 8-10 November 2019 Acapulco Resort & Convention & SPA-Kyrenia/North Cyprus <http://www.icesmeconference.com>
9. Owusu-Mensah, F. Amoah, K. E. **Akayuure, P.** & Adu-Oppong, A.A. (2019). Perceived risk factors in distance education delivery: The case of University of Education, Winneba, *European Centre for research training and development UK*, 7 (6), 84-92.
10. Nabie, M. J., **Akayuure, P. A.** Ibrahim-Bariham, U. A., Sofu, S. (2018). Trigonometric concepts: pre-service teachers' perceptions and knowledge. *Journal on Mathematics Education*, 9(12). 169-182. <https://ejournal.unsri.ac.id/index.php/jme/arti...>
11. Apawu, J., Owusu-Ansah, N. A. & **Akayuure, P.** (2018). A study on the algebraic working processes of senior high school students in Ghana. *European Journal of Science and Mathematics Education*, 6(2). 62 -68.
12. **Akayuure, P.**, Asiedu-Addo, S.K. & Alebna, V. (2016). Investigating the effect of origami instruction on preservice teachers' spatial ability and geometric knowledge for teaching. *International Journal of Education in Mathematics, Science and Technology*, 4(3), 198-209 DOI:10.18404/ijemst.78424.
13. Ali, C. A. & **Akayuure, P.** (2016). Exploring postgraduate students' research knowledge and skills in normality tests and verification. *US-China Education Review A*. 6(1) (serial number 56). 53-62. doi: 10.1765/2161-623X/2016.01.001.
14. **Akayuure, P.** & Ali, C. A. (2016). Incorporating indigenous *bukre* game into Mathematics lessons: A teaching experiment. *Journal of Mathematics*, 1(1), 1-15. ISSN 2349-5375. www.researchjournali.com.
15. Ananga, P. & **Akayuure, P.** (2016). Integrating interactive multimedia into mathematics course modules for distance education. *African Journal of Educational Studies in Mathematics and Sciences*, 12, 35-43. <https://www.ajol.info/index.php/ajesms/issue/view/16758>.
16. Ali, C. A. & **Akayuure, P.** (2016). Student-teachers knowledge and skills in contemporary quantitative methods in action research reporting. *IOSR Journal of Research and Methods in Education*, 6 (4, ver. II) 34-42. www.iosrjournals.org.
17. **Akayuure, P.**, Ali, C. A. (2016). Infusing competencies and skills of vocational instructors: innovations to boost science and technology for national development. *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)* ISSN (Print) 2313-4410, ISSN (Online) 2313-4402 © *Global Society of Scientific Research and Researchers* <http://asrjetsjournal.org/>
18. **Akayuure, P.** & Apawu, J. (2015). Examining mathematical task and pedagogical usability of web contents authored by prospective mathematics teachers. *International Journal of Research in Education and Science (IJRES)*, 1(2), 101-110. <http://www.ijres.net/>

19. Agbemaka, J., B., Apawu, J. & Akayuure, P. (2015). Information and Communication Technology use and ICT competency in education: The Case of Sandwich students. *International Journal Information and Communication Technology Research*. 5(6), 1-9. <http://www.esjournals.org>
20. Ali, C., A. & Akayuure, P. (2014). Mathematics as a tool for enhancing competitiveness and employability of vocational training institutions in Ghana. *International Journal of Entrepreneurial Development, Education and Science Research* 2(1), 190-200. <http://www.internationalpolicybrief.org>
21. Akayuure, P., Nabie, M. J., & Sofu, S. (2013). Ghanaian prospective mathematics teachers' perceived self-efficacy towards web pedagogical content knowledge. *International Journal of Liberal Arts and Social Science*, 1(3), 132-140. ISSN: 2307-924X, www.ijlass.org
22. Nabie, M. J., Akayuure, P. & Sofu, S. (2013). Integrating problem solving and investigations in mathematics: Ghanaian teachers' assessment practices. *International Journal of Humanities and Social Science*, 15(3), 80-92. Center for Promoting Ideas, USA. www.ijhssnet.com
23. Akayuure, P. (2011). Courseware design for multimedia learning in mathematics education at University of Education, Winneba. *Journal of Business and Educational Policies*, 1(7), 1-10.
24. Nabie, M. J., Nantomah, K. K. & Akayuure, P. (2011). Junior high school mathematics teachers' conceptions and practices of problem solving. *International Journal of Numerical Mathematics* 2(6), 243-274.
25. Akayuure, P. & Nabie, M. J. (2010). Use of course manual to implement active learning in Mathematics Education. *International Journal of Research in Counseling and Sports Sciences*. 1(1), 185-197.

Professional Development:

Training Sessions:

Course Title	Course Instructor (if desired)	Location	Period
1. Mathematics tutoring, Assessment and Project Supervision at various study centres of CODEL-UEW Distance Programme: Course Coordinator's Reflections	Dr. Peter Akayuure	Senator Hotel, Kumasi	1 st May 2022
2. Proposal writing seminar for senior members of faculty of science education, UEW	Dr. Edmund Agyemang	Directorate of Research, Innovation and Development, UEW	2022
3. Internship supervision workshop	Prof. Dandy Dampson	Institute for Teacher Education and Continuing	2022

			Professional Development	
4. Quantitative data analysis	Dr. Peter Akayuure	IERIS-UEW		2021
5. Research: Constituents and Processes. A Research Skills Training Workshop	Dr. Peter Akayuure	IERIS		2020
6. Grounded Theory (SCI022Z-LZ Postgraduate studies)	Prof. Markko Hämäläinen	Aalto University, Helsinki, Finland		2019
7. Strategies for learning numeracy at the primary school level	Dr. Peter Akayuure	Science Education Faculty		2019
8. Data management and analysis	Dr. Peter Akayuure	NCRIBE		2019
9. Orientation for Deans, directors, deputy registrars and HODs	Deputy Registrar, Division of Human resource, UEW	Mannah Heights, Mankessim		2019
10. Training of textbook assessors, NACCA and Cambridge Assessment International	Mr. Anang and Cambridge Experts	Aknac Hotel, Accra		2019
11. Academic writing and Author studio	Experts of University of Jyvaskyla	Finland		2018
12. Trainers Training workshop on the use of Cambridge Starboard software 9.34 for interactive projectors	Human Resource Division Experts	UEW, Faculty block		2014
13. Mentees Workshop. A 4-day retreat writing workshop organised by Gender Mainstreaming Directorate of the University of Education, Winneba	Selected professors, UEW	UEW, Elmina		August 18-19 2012
14. The third research skills workshop by Gender Mainstreaming Directorate of the University of Education, Winneba	Selected professors, UEW	Graduate Seminar Room, Central Campus		February 14-17 2012
15. A retreat writing session for courseware developers under the PHEA-ETI Project	Experts of PHEA-ETI project	Kumasi Campus, UEW		January 27 – February 5, 2012
16. Research skills workshop. Five-day workshop by Gender Mainstreaming Directorate of the University of Education, Winneba	Selected professors, UEW	Graduate Seminar Room, Central Campus		March 21-25 2011

17. Mentoring workshop (Mentees Workshop). Five-day workshop by Gender Mainstreaming Directorate of UEW Selected professors, UEW Graduate Seminar Room, Central Campus February 7-11 2011

Seminars and Workshops:

A. I made presentations in the following seminars and workshops

<i>Course Title</i>	<i>Presenter</i>	<i>Location</i>	<i>Period</i>
1. Mathematics problem solving workshop	Prof. Ian Vanderburg and Dr. Comfort Mintah	University of Education, Winneba and University of Waterloo, Canada	February 2024
2. Seminar on Grant sourcing and proposal writing for funding	Dr. Peter Akayuure, Prof. Esther Danso-Wiredu	Faculty of Ghanaian Languages, UEW, Ajumako	January, 2024
3. Academic Integrity of Assessment results of Mathematics and Science students in digital Space: the UEW Experience, Presenter-	Dr. Peter Akayuure and Nelly Sakyi-Hagan	Science Faculty Seminar Room	September 14, 2022
4. Sampling fundamentals in relation to the theory of estimation and statistical inferences in language sciences	Dr. Peter Akayuure	Inter-University Conference for Doctoral Studies	January 18-20 2022
5. Research: Constituents and Processes. Research Skills Training Workshop	Dr. Peter Akayuure	IERIS Conference room	November 11 2020
6. Psychometric properties of an instrument to measure spatial ability, verbal reasoning and knowledge for teaching geometry	Dr. Peter Akayuure	Science Faculty Seminar Room	April 10 2019
7. Strategies for learning numeracy at the primary school level	Dr. Peter Akayuure	Mathematics Education Department	August 20 2019
8. Impact of origami instruction on pre-service teachers' spatial ability and geometric knowledge for teaching.	Dr. Peter Akayuure	Science Education Faculty Seminar room	March 25 2015
9. Investigating the instructional value of courseware designed for multimedia learning in Mathematics Education Presenter	Dr. Peter Akayuure	Gender Mainstreaming research skills development workshop	September 2012

B. I participated in the following seminars and workshops

<i>Course title</i>	<i>Location</i>	<i>Period</i>
1. <i>Recent Trends in Capacity Building for the Mathematical Sciences in Africa</i> , organised by African Institute for Mathematical Sciences (AIMS)	AIMS Ghana	November, 2022
2. Building Research Capacity and Grant Capture Opportunities in UEW by DRID-UEW	Mini-Conference Hall, North Campus of UEW	November 2022
3. CODEL Refresher Workshop for postgraduate and undergraduate tutors	Gloriaka Hotel, Winneba	March 2022
4. Proposal writing seminar for senior members of faculty of science Education, UEW	North Assembly hall, UEW	February 1 2022
5. Internship supervision workshop, ITECPD	Gloriaka Hotel, Winneba	January 18 2022
6. Institute for Educational Research and Innovation Studies- IERIS Retreat	Anomabu Beach Resort	October 2021
7. Teacher trainees' mathematical background knowledge in response to tutors' instructional strategies in mathematics	LH2, Science block, UEW	March 2021
8. Orientation for Deans, directors, deputy registrars and HODs	Manna Heights Hotel, Mankessim	October 11 2019
9. Training of textbook assessors, NACCA and Cambridge Assessment International	Aknac Hotel, East Legon, Accra	September 1-2 2019
10. Review of Assessment Framework Document to accompany Standard-Based Pre-tertiary Curriculum NACCA	Blue Royal Hotel, Larteh, Eastern Region	September 4 - 8 2019
11. Assessment framework Review Workshop with Cambridge Assessment International (CAI) towards implementation of the New Standard-Based Pre-tertiary Curriculum NACCA	Blue Royal Hotel, Larteh, Eastern Region	September 23-24 2019
12. 2-day Residential Workshop to Review the Draft Assessment Template with CAI, Organized By NACCA	Aknac Hotel, East Legon, Accra	November 1-2 2019
13. Centre for Teacher Development and Action Research (CETDAR) Workshop on students' internship programme	ICT LAB, South Campus	January 12 - 13 2016
14. Faculty Retreat, Faculty of Science Education, UEW	SMAYAK Hotel, Apam Junction	September 1-2 2014
15. Departmental Retreat, Department of Mathematics Education, UEW	Nokaans Hotel, Cape Coast	August 20, 2014
16. Trainers Training workshop on the use of Cambridge Starboard software 9.34 for interactive projectors organised by Human Resource Division, UEW	Faculty Block Room 402, North Campus	August 19, 2014
17. Special Congregation Lecture on the theme "Sustaining excellence in educational leadership for accelerated national development organised by the University of Education, Winneba	Anamuah-Mensah Conference Centre, North Campus	August 13, 2014

18. Training workshop for lecturers on the use of multimedia tools for lecture delivery organised by Human Resource Division UEW	Faculty Block Room 202, North Campus	August 4, 2014
19. Higher Education Symposium on the theme "Dilemmas of Higher Education) organised by Institute for Educational Research and Innovation Studies (IERIS), UEW	J. N. Aryeetey Auditorium	July 9, 2014
20. Improving Grant Assessing and Management Capacity at the UEW workshop organised by Externally Funded Projects Office, University of Education, Winneba	J. N. Aryeetey Auditorium	June 6, 2014
21. Faculty Seminar: Faculty of Science Education, 2 presentations on the topics "Subjective Assessment of soccer practical of applicant into undergraduate programme in Physical Education in the University of Education, Winneba" and "Chemistry teacher trainees interpretation of safety rules and symbols"	UEW-Science Faculty Block, Lecture Hall 2	March 26, 2014
22. Faculty Seminar: Faculty of Science Education, a presentation on "Analysis of Vehicular Type as a Risk Factor of Accidents Fatality in Ghana	UEW-Science Faculty Block, Lecture Hall 2	March 12 2014
23. Information Literacy Workshop for Faculty Members organised by Winneba Library	ICT Main Lab, South Campus	January 20, 2014
24. Public lecture by Vis Naidoo, Vice President, Commonwealth of Learning on the topic "ODL and Technology Enabling Access Quality and Inclusion in Higher Education	J. N. Aryeetey Auditorium	December 9, 2013
25. Writers' Training Workshop. A 5-day writers' workshop organised by IEDE, UEW	Wadoma Hotel, Abuakwa-Kumasi	December 1-7 2013
26. Grant Proposal Writing Workshop organised by Externally Funded Projects Office, UEW	2013 N. Aryeetey Auditorium	November 12, 2013
27. Structural Equation Modelling- Partial Least Squares Training Seminar for staff of Languages Education and Science Education Faculties of University of Education, Winneba, Winneba Campus organised by Externally Funded Projects Office	Lecture Theatre 3, New Science Block, South Campus	June 13-14 2013
28. Learning Management System and Online Courseware Design/Moodle workshop for staff of Languages Education and Science Education Faculties of University of Education, Winneba, Winneba Campus organised by Externally Funded Projects Office, University of Education, Winneba	Lecture Theatre 3, New Science Block, South Campus	June 10-12 2013
29. Seminar organised by Gender Mainstreaming Directorate of the University of Education, Winneba by Anil Khamis of Institute of Education, University of London	J. N. Aryeetey Auditorium	February 7, 2013
30. A 3-day workshop on the development of Open Educational Resource (OER) course materials organised by PHEA-ETI Programme, UEW	Pecku Conference Room	October 31 November 2, 2012

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| 31. Research Policy Dissemination Workshop organised by University of Education, Winneba | Graduate Seminar Room, Central Campus | March 21-25 2011 |
| 32. MOODLE Workshop organised by UEW-PHEA ETI Programme | Graduate Seminar Room, Central Campus | March 14-18 2011 |

Conference(s)

<i>Name of Conference</i>	<i>Location</i>	<i>Presentations (if any)</i>	<i>Period</i>
1. Inter-University Conference for Doctoral Studies	UEW	Sampling fundamentals in relation to the theory of estimation and statistical inferences in language sciences –Presenter- <i>Dr. Peter Akayuure</i>	2022
2. Association of African Universities, The covid-19 diary. Understanding the Myths Science of the Novel Coronavirus	AAU-TV	-	2021
3. Art in Science and Science in Art Conference, International Conference on Arts and sciences	UEW	Mathematics in Art: Exploring the Golden Ratio and Rules in Art Works Presenter- <i>Dr. Peter Akayuure</i>	2021
4. Dissertation Defense Day seminar for PhD candidates	University of Jyvaskyla, Finland	Spatial ability factor in future teachers’ geometric knowledge construction. A lectio praecursoria <i>Dr. Peter Akayuure</i>	2018
5. Academic writing Conference	University of Jyvaskyla, Finland	Using Indigenous games to demystify the Bayesian Theorem: The case of Ampe <i>Dr. Peter Akayuure</i>	2018
6. International Conference: Theme: Innovative Education for National Transformation and Development in Africa in the 21 st Century: ERNWACA Conference	Windy Lodge, Winneba Ghana	A teaching experiment involving Indigenous <i>Bukre</i> game in Mathematics Lessons. Presenter- <i>Dr. Peter Akayuure</i>	2016

Curriculum Development: Give a brief description of the course or instructional material. Invited or professional presentations, lectures, etc. Provide a list of the professional areas you write on, investigate, offer services/talks/education, etc. and the level(s) at which the course is taught or the instructional material is used. Co-developers should be named.

A.

<i>Course or Instructional materials</i>	<i>Level</i>	<i>Period</i>
1. Writing of Secondary school curriculum (Reviewer, Additional Mathematics, Core Mathematics and Intervention Mathematics)	Senior High schools	August, 2022 to date

2. Revision of undergraduate mathematics education courses/programmes for re-accreditation	Undergraduate	2012 to 2022
3. Writing of new programmes (Mathematics with Economics) for accreditation	Undergraduate	2019 to 2022
4. Writing and revision of mathematics education programme for re-accreditation	MPhil M.Ed.	2019
5. Writing and revision of PhD mathematics education programme for accreditation and re-accreditation	PhD	2019
6. <i>Abstract Algebra</i> A 4-year BSc. Mathematics Education Course Module for Distance Education. Winneba: UEW-IDE L	300	2020
7. <i>Web Technologies for the Mathematics Teacher</i> , A 4-year BSc. Mathematics Education Course Module for Distance Education. Winneba: UEW- IDE L.	400	2020
8. <i>Vector Analysis</i> . A 4-year BSc. Mathematics Education Course Module for Distance Education. Winneba: UEW- IDE L	400	2019
9. <i>Courseware Design and Development using Multimedia tools</i> . A 4-year BSc. Mathematics Education Course Module for Distance Education. Winneba: UEW-IDE L	200	2018
10. <i>Algebra II</i> . A 4-year BSc. Mathematics Education course module for Distance Education (unit 4). Winneba: UEW- IEDE.	100	2017
11. <i>Algebra I</i> . A 4-year BSc. Mathematics Education course module for Distance Education (unit 4). Winneba: UEW, IEDE	100	2016
12. <i>Mathematics for the early childhood education teacher (ECD 497)</i> Course Module for Distance Education (Units 2, 4 and 6). Winneba: UEW, IEDE.	Post dip.	2016

B. **Online Courses (MOODLE).** *I developed the following courses on Moodle platform for mathematics education students.*

<i>Course material (developed Online)</i>	<i>Level</i>	<i>Period</i>
1. Web Technology for mathematics teacher, for Department of Mathematics Education, in UEW Learning Management System (MOODLE).	300	2012 to date
2. Courseware design and development using multimedia tools, for Department of Mathematics Education, in UEW Learning Management System (MOODLE).	200	2012 to date

C. **Editor:** *I edited the following modules and book*

<i>Instructional material (Modules/book edited)</i>	<i>Level</i>	<i>Period</i>
1. <i>Numerical Analysis</i> . module for distance education students by Apawu, J. & Owusu-Ansah, N. K. (2018), Winneba: UEW printing press	300	2018

2. *Vector Algebra*. IDeL course module for distance education students by Amoah, E. (2018), Winneba: UEW printing press 200 2018
3. *Geometry II*, module for distance education students by Oppong, R. A. (2018), Winneba: UEW printing press 100
4. *Understanding Primary Mathematics Methods for Teaching* by Nabie, M. J. (2013). Winneba: Akwa Impression Undergraduate 2013

Student Development:

<i>Activities</i>	<i>Number of student involved Length of time</i>	<i>Category of students</i>	<i>Nature of involvement</i>
1. GRASAG bi-Weekly seminar)	50+ for 3 hours each meeting (2 nd semester 2021/2022, from March to August, 2022	Med, MA, MPhil and PhD students	Mentor and senior advisor (Critiquing and approving proposal presentations and thesis topics)
2. Talks on Social and Career skills development	100+ (twice a semester)	UPASU (Med, MA, MPhil and PhD students)	Patron and facilitator (talks on Writing CV, sponsorship opportunities, leadership skills, digital skills, etc.
3. Academic counselling	50 per semester from 2010 to 2022	Undergraduate	Concerns regarding studying, academic achievements, future prospects
4. Graduate seminar	30 per semester on average	MPhil	Critiquing and fine-tuning candidate research work
5. Proposal presentations	On invitation	MPhil, PhD	Critiquing and approving proposal presentations and thesis topics
6. VIVAs	15 per year from 2016 to 2022	MPhil, PhD	Panel member, internal assessors
7. AMES week celebration and educational trips	50 per year	Association of Mathematics Education (AMES)	Talks/contributing to AMES programmes, coordinating educational trip by AMES
8. Coordinator of graduate seminar series (GRASAG)	50 per year from 2020 to 2022	Graduate Students' Association of Ghana (GRASAG), UEW	Coordinating online graduate seminar presentations

9. Exhibition of TLMs	50 per year	Basic school teacher and students	Illustration of mathematical concepts in local materials, clothing, etc
10. Organisation of IERIS graduate research seminar	100 graduate joined online	UEW graduate students (GRASAG), UEW	Presentation on thesis writing, methodologies, data analysis and finding
11. Celebration of World Science day	100 on December 10, 2021	Basic school teachers and students	Exhibition of materials for teaching Awareness of significance of science and mathematics to national development Documentation of SACOST productions

Mentorship

Area(s) of Development

Number of Staff Mentored

- | | |
|---|--------------------------------|
| 1. Research publications | Five newly appointed lecturers |
| 2. PhD thesis writing | Three PhD candidate lecturers |
| 3. Quantitative data analysis with SPSS | Five PhD candidate lecturers |

Membership of Professional Association(s):

<i>Name of Association</i>	<i>Position held (if applicable)</i>	<i>Period</i>
1. Africa Students and Alumni Forum (ASAF)	Member	2023
2. Mathematics Education Research Group of Australasia (MERGA)	Member	2014 to date
3. European Centre for Research Training and Development UK	Member	2019 to date
4. Mathematical Association of Ghana (MAG)	Member	2008 to date
5. Educational Research Network for West and Central Africa (ERNWACA)	Member	2016 to date
6. University Teachers' Association of Ghana (UTAG)	Member	2010 to date
7. STEM research working group, SACOST	Founder/Chairman	2021 to date

Institutional Service: List the Committee(s) and/or Board(s) you have been a member of. You may in a sentence or two outline the nature and scope of work.

<i>Name of Committee(s) and/or Board(s)</i>	<i>Position or role</i>	<i>Period</i>
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1. Female in STEM Workshop Planning Committee	Secretary	2022
2. UEW Academic Board	Member	2019 to 2022
3. IERIS Documentation Committee	Secretary	2020 to 2022
4. IERIS International Conference Committee	Secretary	2020 to 2022
5. Editorial Committee, Journal of Science Education/Research	Member	2020 to date
6. CODEL Examinations Committee	Course coordinator	2016 to 2022
7. Department Postgraduate committee	Member	2015 to date

Referees

- 1) Prof. Michael Johnson Nabie
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- 2) Prof. Christopher A. Okpoti
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Signature:

28/02/2024

Date: