



# Curriculum Vitae

## PERSONAL DATA

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**Name** ROBERT BENJAMIN ARMAH (Ph.D.)  
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**Nationality:** Ghanaian

## AREAS OF EXPERTISE OR PROFESSIONAL SKILLS

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Mathematics Education, Curriculum Design and Development in Mathematics, Instructional Strategies in Mathematics, Educational Technology in Mathematics Teaching, Mechanics and Applied Mathematics.

## PROFESSIONAL QUALIFICATION(S)

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<i>Rank</i>	<i>Supporting Evidence</i>	<i>Period</i>
1. Senior Lecturer	Promotion Letter	2024 – Date
2. Lecturer	Promotion Letter	2022 – 2024
3. Assistant Lecturer	Appointment Letter	2020 – 2022

## PROFESSIONAL RESPONSIBILITIES

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<i>Position</i>	<i>Office/Location</i>	<i>Period</i>
1. Ph.D. Thesis Supervisor	Department of Mathematics Education, UEW	2024 – Date
2. M.Phil. Thesis Supervisor	Department of Mathematics Education, UEW	2024 – Date

3. M.Ed. Thesis Supervisor	Department of Mathematics Education, UEW	2024 – Date
4. Internal Assessor (Master of Philosophy in Mathematics Thesis)	Department of Mathematics Education, UEW	2024 – Date
5. Internal Assessor (Master of Education in Mathematics Thesis)	Department of Mathematics Education, UEW	2024 – Date
6. Programme Coordinator (Mathematics and ICT courses)	College for Distance and e-Learning (CODEL), UEW	2022 – Date
7. Undergraduate Project Work Supervisor	Department of Mathematics Education, UEW	2020 – Date
8. Academic Counsellor	Department of Mathematics Education, UEW	2020 – Date
9. Part-time Lecturer	CODEL, UEW	2015 – Date
10. Mathematics Teacher	Ghana Education Service	2016 – 2019
11. Mathematics and ICT Tutor (Internship and National Service)	Wesley College of Education, Kumasi	2011 – 2013

## EDUCATION

<i>Qualification/Certificate obtained</i>	<i>Name of Institution Attended</i>	<i>Date</i>
1. Ph.D. in Mathematics Education	University of Education, Winneba	2019 – 2023
2. M.Phil. in Mathematics Education	University of Education, Winneba	2013 – 2015
3. B.Ed. in Mathematics	University of Education, Winneba	2008 – 2012
4. West African Senior School Certificate (General Science)	Mfantsipim School	2004 – 2007

## CAREER HISTORY

<i>Position/Title</i>	<i>Name of Institution</i>	<i>Date</i>
<b>1. Senior Lecturer (Full time)</b>	University of Education, Winneba	2024 – Date
<i>Responsibilities:</i>		
<ul style="list-style-type: none"> <li>▪ Supervising Postgraduate students' Thesis in Mathematics Education</li> <li>▪ Supervising Undergraduate students' research works in Mathematics Education</li> <li>▪ Designing course manuals for lecturing (undergraduates and postgraduates)</li> <li>▪ Preparing course materials for face-to-face lecturing (undergraduates and postgraduates)</li> <li>▪ Face-to-face lecturing of postgraduate courses in Mathematics Education</li> <li>▪ Face-to-face lecturing of undergraduate courses in Mathematics Education</li> <li>▪ Preparing course materials for online lecturing</li> <li>▪ Lecturing postgraduate students via Learning Management System (online lecturing)</li> <li>▪ Lecturing undergraduate students via Learning Management System (online lecturing)</li> <li>▪ Training/Preparing undergraduate students during On-campus Teaching Practice</li> <li>▪ Examining and grading Undergraduate students' teaching portfolio</li> <li>▪ Examining and grading Undergraduate students in Mathematics Education (i.e. ICT and Mathematics content courses)</li> <li>▪ Supervising Undergraduate Mathematics Education students on Internship Programme</li> <li>▪ Researching and writing of articles and books for publication</li> <li>▪ Providing academic counseling for Undergraduate Mathematics Education students</li> <li>▪ Community service</li> </ul>		
<b>2. Lecturer (Full time)</b>	University of Education, Winneba	2022 – 2024
<i>Responsibilities:</i>		
<ul style="list-style-type: none"> <li>▪ Supervising Undergraduate students' research works in Mathematics Education</li> <li>▪ Supervising Postgraduate students' Thesis in Mathematics Education</li> <li>▪ Designing course manuals for lecturing</li> <li>▪ Preparing course materials for face-to-face lecturing</li> <li>▪ Face-to-face lecturing of undergraduate courses in Mathematics Education</li> <li>▪ Preparing course materials for online lecturing</li> <li>▪ Lecturing undergraduate students via Learning Management System (online lecturing)</li> <li>▪ Training/Preparing undergraduate students during On-campus Teaching Practice</li> <li>▪ Examining and grading Undergraduate students' teaching portfolio</li> <li>▪ Examining and grading Undergraduate students in Mathematics Education (i.e. ICT and Mathematics content courses)</li> <li>▪ Supervising Undergraduate Mathematics Education students on Internship Programme</li> <li>▪ Researching and writing of articles and books for publication</li> <li>▪ Providing academic counseling for Undergraduate Mathematics Education students</li> <li>▪ Community service</li> </ul>		

**3. Programme Coordinator**  
(Mathematics and ICT Courses)

CODEL, UEW

2022 – Date

*Responsibilities:*

- Setting of quiz, entrance exams and end-of-semester examination questions with marking schemes.
- Tutoring at least a course on the distance education programme for effective coordination.
- Assisting in the printing and packaging of quiz and examination questions.
- Marking of end-of-semester examinations at conference marking centre.
- Attending CODEL meeting to discuss exams results.
- Submitting comprehensive report on the conduct of quizzes and end-of-semester examinations to the Principal, CODEL.
- Monitoring the writing of modules at their respective departments, and submitting comprehensive quarterly reports on the state of the module to the Principal, CODEL.
- Conducting curriculum evaluations on a continual basis using continuous process improvements techniques.
- Any other duties related to specialized course area(s) for which the appointment is assigned.

**4. Assistant Lecturer (Full time)**

UEW

2020 – 2022

*Responsibilities:*

- Designing course manuals for lecturing.
- Preparing course materials for face-to-face lecturing.
- Face-to-face lecturing of undergraduate courses in Mathematics Education.
- Preparing course materials for online lecturing.
- Lecturing undergraduate students via Learning Management System (online lecturing).
- Training/Preparing undergraduate students during On-campus Teaching Practice.
- Examining and grading Undergraduate students' teaching portfolio.
- Examining and grading Undergraduate students in Mathematics Education (i.e. ICT and Mathematics content courses).
- Supervising Undergraduate Mathematics Education students on Internship Programme.
- Supervising Undergraduate students' research works in Mathematics Education.
- Researching and writing of articles and books for publication.
- Providing academic counseling for Undergraduate Mathematics Education students.

**5. Assistant Lecturer (Casual)**

UEW

2019 – 2020

*Responsibilities:*

- Designing course manuals for lecturing.
- Preparing course materials for face-to-face lecturing.
- Face-to-face lecturing of undergraduate courses in Mathematics Education.
- Preparing course materials for online lecturing.
- Lecturing undergraduate students via Learning Management System (online lecturing).

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| <b>6. Assistant Lecturer (Part time)</b> | UEW | 2017 – 2019 |
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- Designing course manuals for lecturing.
- Preparing course materials for face-to-face lecturing.
- Face-to-face lecturing of undergraduate courses in Mathematics Education.
- Training/Preparing undergraduate students during On-campus Teaching Practice.
- Examining and grading Undergraduate students in Mathematics Education (i.e. ICT, Mathematics content and Methods courses).
- Researching and writing of articles and books for publication.

- Preparing course materials for face-to-face lecturing of Diploma Distance Education Students.
- Preparing course materials for face-to-face lecturing of First-Degree Distance Education Students.
- Lecturing Diploma Mathematics courses in Distance Education.
- Lecturing First-Degree Mathematics courses in Distance Education.
- Supervising Diploma Distance students' research works.
- Supervising First-Degree Distance students' research works in Mathematics.

- Designing lesson plans for teaching SHS one and two core mathematics.
- Designing lesson plans for teaching SHS two elective mathematics.
- Preparing subject materials for teaching SHS one and two core mathematics.
- Preparing subject materials for teaching SHS two elective mathematics.
- Teaching SHS core mathematics (first and second years).
- Teaching SHS elective mathematics (second years).
- Examining and grading SHS students in both core and elective mathematics.
- Performing form master duties: checking of students' class attendance, monitoring students' academic performance, organizing form meetings with students, offering academic counselling to students, completing students' end-of-term/semester academic report.

**9. Mathematics Teacher**

Mozano Senior High School

2016 – 2018

*Responsibilities:*

- Designing lesson plans for teaching SHS one core mathematics
- Designing lesson plans for teaching SHS three elective mathematics
- Preparing subject materials for teaching SHS one core mathematics
- Preparing subject materials for teaching SHS three elective mathematics
- Teaching SHS core mathematics (first years)
- Teaching SHS elective mathematics (Third years)
- Examining and grading SHS students in both core and elective mathematics
- Performing form master duties; checking of students' class attendance, monitoring students' academic performance, organizing form meetings for students, offering academic counselling to students, completing students' end-of-term/semester academic report.

**10. Mathematics and  
ICT Tutor (Internship  
and National Service)**Wesley College of Education,  
Kumasi

2011 – 2013

*Responsibilities:*

- Teaching (Calculus, Statistics and Probability, Geometry, Trigonometry, Algebra and ICT)
- Setting/Typing General Quiz Questions
- Academic counselling
- Community service

**PUBLICATIONS, RESEARCH/PROJECTS CONDUCTED OR UNDERTAKEN,  
CREATIVE WORKS/PRODUCTIONS PRODUCED***a. Book*

1. Oppong, R.A. & **Armah, R. B.** (2021). *Mechanics for 4-yr BSc. in Mathematics Education*. Institute for Distance and e-Learning. University of Education, Winneba. UEW.

*b. Peer-Reviewed Journal Articles*

1. **Armah, R. B.** (2024). Geometric Thinking of Prospective Mathematics Teachers: Assessing the Foundation Built by University Undergraduate Education in Ghana. *Teacher Education and Curriculum Studies*, 9(2), 40-51.
2. Assuah, C. K., **Armah, R. B.**, Sabtiwu, R., Abedu, G. & Assuah, S. (2022). High School Mathematics Teachers' Knowledge About Stem Education: The Ordinal Logistic Regression Model. *International Journal of Research and Innovation in Social Science*, 6(5), 868-879.
3. Aduko, E. A., & **Armah, R.B.** (2022). Adapting Bruner's 3-Tier Theory to Improve Teacher Trainees' Conceptual Knowledge for Teaching Integers at the Basic School. *European Journal of Mathematics and Science Education*, 3(2), 61 - 77.

4. Assuah, C. K., **Armah, R. B.**, Sabtiwu, R., Abedu, G. & Awolu, F. (2022). The Multinomial Logistic Regression Model's Utility to Assess Parameters in Predicting Junior High School Students' Preference for Selected Mathematics Topics. *American Journal of Education and Information Technology*, 6(1): 31-38. doi: 10.11648/j.ajeit.20220601.16
5. Mensah, J. Y., Sam, S. E., & **Armah, R. B.** (2022). The Use of PowerPoint Presentation in Mathematics Education: A Comparative Study of Endowed and Less Endowed Schools in Ghana. *International Journal of Scientific and Management Research*, 5(8), 164-176. <http://doi.org/10.37502/IJSMR.2022.5814>
6. Assuah, C. K., Sabtiwu, R., **Armah, R. B.**, Abedu, G. & Awolu, F. (2022). Pass or Failure of Students in the "WASSCE" Mathematics Mock Examination: The Binary Logistic Regression Model. *International Journal of Education, Learning and Development*, 10(4), 38-56.
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), 1-8. <https://doi.org/10.30935/conmaths/9288>
8. **Armah, R. B.** & Kissi, P. S. (2019). Use of the van Hiele Theory in Investigating Teaching Strategies used by College of Education Geometry Tutors. *EURASIA Journal of Mathematics, Science and Technology Education*, 15(4), 1-13. <https://doi.org/10.29333/ejmste/103562>
9. **Armah, R.B.**, Cofie, P.O. & Okpoti, C.A. (2018). Investigating the effect of van Hiele Phase -based instruction on pre-service teachers' geometric thinking. *International Journal of Research in Education and Science*, 4(1), 314-330. DOI:10.21890/ijres.383201
10. Kissi, P.S., Nat, M. & **Armah, R.B.** (2018). The effects of learning-family conflict, perceived control over time and task-fit technology factors on urban-rural high school students' acceptance of video-based instruction in flipped learning approach. *Educational Technology Research and Development*. 66(6), 1547-1569. <https://doi.org/10.1007/s11423-018-9623-9>

## PROFESSIONAL DEVELOPMENT

### Seminars and Workshops

1. **Participant** in a Seminar organized by the Institute for Educational Research and Innovation Studies (IERIS), UEW held on August 6, 2024, at the North Campus Assembly Hall – UEW, under the theme “Pathway to Making UEW a Research-Intensive University”.
2. **Participant** in a 3-Day Seminar organized by the Inter-University Conference for Doctoral Studies (IUCDS) in Collaboration with School of Graduate Studies (SGS) and Centre for

International Programmes (CIP), UEW held on 23<sup>rd</sup> – 25<sup>th</sup> July, 2024 at the Jophus Anamoah-Mensah Conference Centre (JAMCC), UEW, under the theme “Enhancing Quality Teaching and Research in Education through Interdisciplinary Collaboration”.

3. **Participant** in a Webinar on Introduction to Python for Data Science organized by GHAIDEMS in Collaboration with the Association of Computer Science, Mathematics and Statistics Students, KNUST, held via Zoom on July 12, 2024.
4. **Resource Person** in Skills and Multi-IT Summit, 2024 organized by the Institute for Liberty and Policy in Collaboration with the ICT and Mathematics Education Department UEW, held on March 6, 2024 at South Lecture Theatre (SLT) 7, UEW.
5. **Presenter** in a Faculty seminar organized by the Faculty of Science Education, UEW, held on February 28, 2024 at Lecture Hall 2, South Campus, UEW on the research titled “Flipped Classroom adapted to the ARCS Model of Motivation: Effects on Prospective Mathematics Teachers’ Acceptance, Satisfaction and Geometric Thoughts”.
6. **Moderator** for Mathematics Education for Students and Teachers (MEST) Webinar on Mastering Geogebra: Innovative Strategy for Teachers organized by the Department of Mathematics Education, UEW, held via Zoom on December 5 and 7, 2023.
7. **Participant** in a Webinar on Variation Theory Series organized by World Association of Lesson Studies held via Zoom on June 24, 2023.
8. **Participant** in Workshop on Students’ Internship Supervision for Lecturers organized by the Institute for Teacher Education and Continuing Professional Development (ITECPD), UEW held at Gloriaka Hotel, Winneba on January 18, 2022.
9. **Participant** in University Teachers Association of Ghana (UTAG) Early Career Seminar organized by UTAG-UWEW at the JAMCC, UEW on August 9, 2021.
10. **Participant** in Test Item Construction Workshop organized by the Faculty of Science Education at the Registrar’s Conference Room, UEW on February 16, 2020.
11. **Participant** in UTAG-UWEW Maiden Early Career Seminar for Newly Appointed Members on March 4, 2020.
12. **Participant** in Seminar on Thesis and Proposal writing organized by GRASAG-UWEW held at JAMCC, UEW on April 13, 2018.



13. **Participant** in a One-day Seminar organized by School of Graduate Studies held on April 16, 2016, at the JAMCC on the theme “Research Quality and Impact: The measure of contemporary Universities in globalized world”.

## CONFERENCE(S)

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1. **Participant** in the 8th International Multidisciplinary Conference for Postgraduate Students organized by GRASAG-UEW in collaboration with School of Graduate Studies held on 1st – 2nd August, 2024, at the JAMCC on the theme “Digital Transformation in Education: Global Challenges, Local Solutions”.
2. **Chief Team Leader** (Mathematics and ICT Courses) for Conference on coordination and marking exercise organised by College for Distance and e-Learning, (CODEL) University of Education, Winneba at Gloriaka Hotel, Winneba, from May 26 – June 3, 2024.
3. **Team Leader** (Mathematics and ICT Courses) for Conference on coordination and marking exercise organised by College for Distance and e-Learning, (CODEL) University of Education, Winneba at Gloriaka Hotel, Winneba, from May 12 – May 20, 2023.
4. **Team Leader** (Mathematics and ICT Courses) for Conference on coordination and marking exercise organised by College for Distance and e-Learning, (CODEL) University of Education, Winneba at Gloriaka Hotel, Winneba, from May 29 – June 6, 2022.
5. **Participant** in the 7th International Multidisciplinary Conference for Post-Graduate Students organized by GRASAG-UEW in collaboration with School of Graduate Studies held on 9th – 11th August, 2023, at the JAMCC on the theme “Paradigm Shift in Pedagogical Innovation for Transformative Education”.
6. **Participant** in the 6th International Multidisciplinary Conference for Post-Graduate Students organized by GRASAG-UEW in collaboration with School of Graduate Studies held on 7th – 9th September, 2022, at the JAMCC on the theme “Change and Digital Transformation in the New Normal: The Role of the Postgraduate Student”.
7. **Participant** in Conference for Senior Members on using Multimedia as tool in Teaching and Learning, organized by the I.T. Directorate of University of Education Winneba on 13th – 15th June, 2018, at the Registrar’s Conference Room, UEW.

## CURRICULUM DEVELOPMENT

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### Courses teaching/taught at the Undergraduate Level

1. MATD242: Vector Algebra (Level 200)
2. MATD362Ma: Mechanics (Level 300)
3. ICTD231: Courseware Design and Development using Multimedia Tools (Level 200)
4. PMTD351: Methods of Teaching Senior High School Mathematics II (Level 300)
5. EDPR351MA: Research Methods in Mathematics Education (Level 300)
6. EDPD361: Pre-internship Seminar
7. EDPD481: Post-internship Seminar
8. EDP482Ma: Teaching Portfolio

### Development of Course/Instructional Materials

<i>Course or Instructional materials</i>	<i>Level</i>	<i>Period</i>
1. Revision of undergraduate (Regular) mathematics education courses/programmes for re-accreditation.	Undergraduate	2022
2. Revision of undergraduate (Distance) mathematics education courses/programmes for re-accreditation.	Undergraduate	2025
3. Revision of Postgraduate (Distance) mathematics education courses/programmes for re-accreditation.	Postgraduate	2025
4. Writing of new programmes (Mathematics Education with Economics) for accreditation.	Undergraduate	2020 – 2021
5. <i>Mechanics</i> , A 4-year BSc. Mathematics Education Course Module for Distance Education. Winneba: UEW-IDeL.	400	2021

### Online Courses (MOODLE) Developed

<i>Course material (developed Online)</i>	<i>Level</i>	<i>Period</i>
1. Vector Algebra, for Department of Mathematics Education, in UEW Learning Management System (MOODLE)	200	2019 – Date

2. Courseware design and development using multimedia tools, for Department of Mathematics Education, in UEW Learning Management System (MOODLE).	200	2019 – Date
3. Mechanics, for Department of Mathematics Education, in UEW Learning Management System (MOODLE)	300	2019 – Date

### **Students Development**

<i>Activities</i>	<i>Number of student Involved/Length of Time</i>	<i>Category of students</i>	<i>Nature of involvement</i>
1. Academic Counselling	60 per semester from 2020 to Date	Undergraduate	Concerns regarding studying, academic achievements, future prospects
2. Graduate Seminar	30 per semester on average	MPhil.	Critiquing and fine-tuning candidates research work.
3. Proposal presentations	30 per semester on average	MPhil, PhD	Fine-tuning Proposals and thesis topics
4. VIVAs	15 per year from 2020 to Date	MPhil, PhD	Participant
5. AMES general meetings, week celebrations and educational trips	400 per year on average from 2021 to Date	Association of Mathematics Education Students (AMES)	Patron, Talks/contributing to AMES programmes, coordinating educational trip by AMES.

### **Mentorship**

<i>Area(s) of Development</i>	<i>Number of Staff Mentored</i>
1. Research Publications	Four newly appointed lecturers
2. Ph.D. thesis writing	Five Ph.D. candidate lecturers
3. M.Phil. thesis writing	15 M.Phil. candidates
4. Quantitative data analysis with SPSS and PLS	Five Ph.D. candidate lecturers

## MEMBERSHIP OF PROFESSIONAL ASSOCIATION(S)

<i>Name of Association</i>	<i>Position held (if applicable)</i>	<i>Period</i>
1. American Psychological Association	Member	2023 – Date
2. European Centre for Research Training and Development, UK	Member	2022 – Date
3. University Teachers Association of Ghana (UTAG)	Member	2020 – Date
4. Ghana National Association of Teachers (GNAT)	Member	2016 – 2019
5. Mathematical Association of Ghana (MAG)	Member	2015 – Date

## INSTITUTIONAL SERVICE

<i>Name of Committee(s) and/or Board(s)</i>	<i>Position or role</i>	<i>Period</i>
1. Department Postgraduate Committee	Member	2024 – Date
2. Mathematics Education for Students and Teachers (MEST) Planning Committee	Member	2023 – Date
3. Committee formed to assist the Examination Officer, Mathematics Education Department to clean the graduating students results	Secretary	2023
4. CODEL Examinations Committee	Programme Coordinator (Mathematics and ICT Courses)	2022 – Date
5. Committee on Development of New Programme titled “Mathematics Education with Economics”	Member	2020 – 2021

## COMMUNITY SERVICE

<i>Name of Institution/Organisation</i>	<i>Position(s) held (if applicable)</i>	<i>Period</i>
1. Association of Mathematics Education Students (AMES)	Patron	2021 – Date
2. Ghana Methodist Student Union (GHAMSU), UEW Local	Academic Counsellor	2019 – Date

## REFEREES

1. Professor Samuel Kwesi Asiedu-Addo, Ph.D.  
Former Dean, School of Graduate Studies  
University of Education, Winneba.  
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skasieduaddo@uew.edu.gh OR samasieduaddo@gmail.com
2. Professor Charles Kojo Assuah, Ph.D.  
Dean, Center for International Programmes  
University of Education, Winneba.  
Tel: (+233) 541511706  
ckassuah@uew.edu.gh
3. Associate Professor Frimpong Kaakyire Duku, Ph.D.  
Principal, College for Distance and e-Learning  
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Signature:



Date: November 4, 2025