VICE CHANCELLOR'S REPORT



2025

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PROFESSOR ELVIS ASARE-BEDIAKO
VICE-CHANCELLOR

FOREWORD

This report presents a detailed account of the activities, achievements and challenges of the University of Energy and Natural Resources for the 2024/2025 academic year. It brings together the work of the various Schools, Directorates, Centres, Offices, and Units and reflects the collective effort that continues to drive the University's growth.

The period under review was marked by steady progress across academic, research, administrative and infrastructural fronts. Key initiatives were advanced and the University strengthened internal systems that support teaching, learning and service delivery. The commitment of staff and students ensured that academic work proceeded smoothly, even as the University navigated the realities of limited resources and a growing mandate.

The University also deepened its collaboration with local and international partners, expanded research activities and pursued capacity-building efforts that aligned with our strategic direction. These engagements remain essential as we work toward becoming a leading institution in energy and natural resources education.

This report highlights the milestones achieved during the year, including improvements in quality assurance processes, the expansion of academic programmes, enhanced internationalisation efforts and the strengthening of administrative structures. Together, these developments provide a clear picture of our progress and the opportunities ahead.
I extend my appreciation to all staff whose dedication and teamwork made these accomplishments possible. Their contribution remains at the heart of the University's mission and continuous advancement.

Professor Elvis Asare-Bediako
Vice-Chancellor

OFFICE OF THE VICE-CHANCELLOR

OFFICE OF THE VICE-CHANCELLOR

1.0 Introduction

The University has undertaken remarkable strides in its pursuit of academic excellence, staff development, and infrastructural advancement. Central to these achievements is the pivotal role of the Vice-Chancellor, who serves as the Chief Executive Officer of the University. In this capacity, the Vice-Chancellor is responsible for the overall planning, direction, organization, management, and discipline within the institution.

As the Chief Academic Officer, the Vice-Chancellor provides strategic leadership and guidance to all members of the University community, ensuring the alignment of institutional goals with the broader vision and mission of the University. The Vice-Chancellor is ultimately accountable to the University Council, under whose authority the effective administration and academic progress of the University are maintained.

2.0 STAFF

Prof. Elvis Asare-Bediako	Vice-Chancellor
Prof. John Kofi Mensah Kuwornu	Ag. Pro Vice-Chancellor
Ms. Millicent Daghar	Assistant Registrar
Mr. Sylvester Debrah	Principal Administrative Assistant
Ms. Kate Mensah	Senior Administrative Assistant
Mr. Samuel Kyere	Senior Administrative Assistant

3.0 Major Activities of Past Year

3.1 Completed Activities

Over the past year, the Office undertook the following activities

3.1.1 Memoranda of Understanding (MoUs)

- **During the academic year, several Memoranda of Understanding (MoUs) were developed and signed. These include:**

  - **Memorandum of Understanding between UENR and Lancaster University (United Kingdom).** This agreement aims to facilitate continued dialogue between the two institutions to explore collaborative research, training, and capacity-building initiatives.
  - **Endorsement of Statement of Cooperation between the University of Santiago de Compostela, Spain, and the Ghana Inland Blue Economy Centre**. This partnership seeks to strengthen institutional ties and encourage cooperation in fisheries, aquaculture, blue economy, natural resource management, and sustainable development.
  - **Memorandum of Understanding between UENR and the Ghana Geological Survey Authority.** The purpose of this MoU is to develop and carry out collaborative activities of mutual benefit to both institutions.

- » **Memorandum of Understanding between UENR and Espiritech UAV Company Limited**. Among other objectives, this MoU aims to enhance engineering skills training through hands-on training and practice.
- » **Service Agreement between PPL NET Ghana Ltd and UENR (Greena FM)**. This agreement aims to increase brand visibility and improve top-of-mind awareness through strategic on-air presence and direct audience engagement via interviews and curated segments.
- » **Memorandum of Understanding between the Digital Belt and Road Program of the International Research Center of Big Data for Sustainable Development Goals (Chinese Academy of Sciences) and UENR**. This MoU reflects a shared commitment to leveraging Big Earth Data to support sustainable development in Africa, in line with the respective mandates and regulations of both parties.
- » **Research Proposal (2025–2027): Satellite-based Water Assessment for Holistic Integrated Lake Information (SWAHILI).** A research initiative aimed at advancing water resource management through satellite-based assessment tools.
- » **Collaboration Agreement between UENR, Details Organization European Partner, and Universiteit Twente.** A partnership to foster academic and research collaboration across institutions.
- » **Copy Ghana Copyright Licensing Agreement with UENR.** An agreement to manage copyright licensing in accordance with national regulations.
- » **Managed Print Services Agreement between UENR and Docutech Limited.** This agreement enables the supply of multi-functional printers (MFPs) across the UENR Sunyani Campus.
- » **Agreement between UENR and a Team of Researchers (Dr. Ebenezer K. Siabi et al.).** Under the Climate Action Incubation Centre (CAIC-UENR), this grant-supported project aims to develop a replicable methodology for fire risk analysis in sanitary landfills, incorporating technical, environmental, and governance variables.
- » **Memorandum of Understanding between Novasphere and UENR**. This MoU establishes a framework for cooperation in areas of mutual interest, without conferring exclusive or preferential treatment to either party.

4.0 Awards

- » The Vice-Chancellor, Professor Elvis Asare-Bediako, was honoured as the Most Respected Chief Executive Officer (CEO) in Public Universities in Ghana at a prestigious national awards ceremony. This recognition underscores his exemplary leadership, commitment to academic excellence, and outstanding contributions to the advancement of higher education in Ghana.
- » Professor Asare-Bediako was also adjudged the Most Outstanding Corporate Leader in Public Universities in Ghana, a testament to his visionary leadership, strategic governance, and dedication to institutional growth and innovation.

• The Vice-Chancellor, Professor Asare-Bediako was honoured with the Transformational Leadership Award at the 6th Think Energy SDGs Awards Ceremony, where the University also received recognition as the SDGs Curriculum Institution of the Year.

5.0 Visits and Interactions (Courtesy Calls)

The Vice-Chancellor participated in several engagements throughout the academic year, receiving a number of visiting individuals, groups, and institutions. Notable among them were:

- The Bono Regional Minister, Hon. Joseph Addae Akwaboa (Esq.), and Team
- The Chairman of the National Democratic Congress (NDC), Hon. Johnson Asiedu Nketiah, and Former Deputy Attorney General, Hon. Alfred Tuah Yeboah
- The Chief Executive Officer, Ing. Solomon Twum Barima, SIC Life Insurance, and Team
- DCOP Mr. Yao D. Tettegah and Team, Ghana Police Service
- The Chief Executive Officer, Dr. Asapi Adjaye Frimpong, and Adwoa Kyerewaa, Spectra Health
- The Regional Fire Commander, ACFOII Cecil Addo, and Team
- The Director, Mr. Lena Leumer, German Academic Exchange Service (DAAD), and Team
- The Manager, Mr. Martin Kobire, Capital Rural Bank, and Team
- Prof. Winfred Yaokum and Prof. Ebenezer Owusu, University of Ghana
- Nana K. Asante, KKC, Electric Scooter Presentation
- Mr. Derrick Klutse, SPE Ghana
- Mr. Abdel Razak Yakubu, Gold Fields Ghana Foundation, and Team
- Mr. Sefar Boakye, Alasef Company Limited, and Team
- Ms. Alberta Sarpong, Ghana Education Service
- Dr. Mirjam Ros-Tonen, University of Amsterdam
- Mr. Kwame Aham, ActionAid Ghana, and Team
- Mr. Charles Eshun, Agricultural Development Bank, and Team
- Mr. Alexander Wezel, ISARA, France, and Team
- Mr. Ibrahim Denka Kariyama, DHLTU, and Team
- Mr. Pietro Piwno, University of Basilica, and Team
- Dr. Boahemaa Ntim, Blacksmith Africa Consult, and Team
- Mr. Antwi Kenneth Ofosu, Parliament House, and Team
- TEWU TUC Executives
- Prof. Simon Mariwah, University of Cape Coast
- Dr. K. Osei Kuffour Adjei and Team, GTEC

6.0 Challenges

Inadequate office space

7.0 Future Plan of the Office

a. To construct office buildings for staff at the Sunyani and Dormaa campuses.
b. To facilitate the adoption of solar energy for all buildings across the University.
c. To facilitate the completion of uncompleted GETFund projects at both campuses to increase the number of lecture rooms.
d. To facilitate the construction of student hostels at both campuses.

QUALITY ASSURANCE AND ACADEMIC PLANNING DIRECTORATE

QUALITY ASSURANCE AND ACADEMIC PLANNING DIRECTORATE

1. Overview of the Directorate

1.1 Mandate

The University of Energy and Natural Resources is mandated to train graduates with the requisite skills to address the many energy and natural resource challenges confronting Ghana and other parts of the world. In achieving this, vibrant quality assurance and academic planning are crucial. Therefore, the University of Energy and Natural Resources has a well-constituted framework for assuring and maintaining quality standards in its operations. Central to this framework is the Quality Assurance and Academic Planning Directorate (QAAPD), set up by Statute 51 of the University Statutes. The Directorate is charged with a core mandate to systematically and continuously design mechanisms to improve the quality of planning, teaching, learning, research, and service delivery in the University. The Directorate has two departments, the Academic Planning and the Quality Assurance Departments, each tasked with specific responsibilities to collaborate with the university community to realise UENR's vision of becoming a world-class university.

The Directorate's Academic Planning Department oversees the University's curriculum planning mechanisms for teaching, learning, and research. It reviews academic programmes for accreditation or (re)accreditation of all departments of the University to meet the requirements of the Ghana Tertiary Education Commission (GTEC). Besides, it reviews departments of the University as regards the programmes they run and their qualifications for new programmes or creation of new departments.

The Quality Assurance Department has several core mandates. The Department conducts student evaluations of courses every semester and evaluates all staff performance. It reviews departments at least every five years, including self-assessments and quality audits. Additionally, it facilitates quality audits, self-studies, reviews, surveys, and staff training initiatives in collaboration with the Human Resources Division. It organises annual exit surveys for graduating classes and periodically conducts tracer and satisfaction surveys. Finally, the Department coordinates the periodic curricula review for all academic programmes.

1.2 Staff of the Directorate

SN	Name	Rank/Position	Qualification
1.	Prof (Mrs.) Mercy Afua Adutwumwaa Derkyi	Director	BSc, MPhil, PhD

2.	Dr. Gifty Serwaa Mensah	Senior Research Fellow; Ag. Head, Academic Planning Dept.	BSc, MSc, PhD
3.	Mr. Bright Karim-Abdallah	Research Fellow; Ag. Head, Quality Assurance Dept.	BSc, MPhil
4.	Ms. Abigail Yeboah-Kyereh	Assistant Registrar	BA, MA
5.	Ms. Rita Adjei (Study Leave)	Senior Research Assistant (study leave)	BSc, MPhil
6.	Mr. Benjamin Balanga Abugri	Senior Administrative Assistant	BSc.
7.	Ms. Francisca Gyanwah Forson	Senior Research Assistant (study leave)	BSc, MPhil
8	Mr. Isabel Chimsi	Senior Research Assistant(contract)	BSc
9	Ms. Jasmine Owusu-Agyemang	Senior Research Assistant(contract)	BSc, MSc.

2.0 Completed Activities (August 2024 to July 2025)

i. Monitored first and second semester examinations to ensure compliance with academic standards and uphold integrity in assessment processes.
ii. Conducted the Student Assessment of Lecturers and Courses for both semesters
iii. Implemented follow-up actions on student feedback through Heads of Departments, including tutorials, revised assessment methods, and strengthened practical components.
iv. Conducted University-wide tracer studies to track graduate employment outcomes and improve curricula; adopted new digital strategies (email, social media, QR codes) to increase alumni participation.
v. Administered a Student Satisfaction Survey among continuing students; findings informed the introduction of a QR code feedback system for real-time data collection

starting 2025/2026 academic year.

vi. Facilitated accreditation and re-accreditation assessments for twenty-four (24) academic programmes between May and July 2025.

vii. Received twelve (10) new accreditation certificates from GTEC for approved programmes.

viii. Coordinated the review and update of the University's Quality Assurance Policy through an Internal Review Committee constituted by the Registrar.

ix. Supervised the development and approval of twelve (12) new academic programmes.

x. Organised an Annual Retreat to evaluate the Directorate's 2023/2024 academic year performance and plan the 2024/2025 strategic direction.

xi. Verified 121 claims from teaching staff for extra teaching, marking, supervision, part-time lectureship, and external examinations.

xii. The Directorate served as Resource Persons during the March 2025 Staff Training Programme to sensitize participants on quality assurance and accreditation procedures.

xiii. Conducted two human relations performance assessments for selected non-teaching staff as part of promotion requirements.

xiv. Organised two training sessions on the Ghana Tertiary Education Commission's (GTEC) Accreditation Management Information System (AMIS) for Deans, Directors, Heads of Department, and Management.

xv. Compiled and submitted the University's TEI Data Collection Report for the 2024/2025 academic year to GTEC in September 2025.

xvi. Coordinated several external quality assurance engagements, including GTEC and ASIIN accreditation visits, facility inspections, and the University's GTEC Five-Year Cyclical Review in September 2025.

xvii. Successfully transitioned the Directorate to the GTEC Accreditation Management Information System (AMIS) to streamline accreditation and documentation processes.

3.0 On-going Activities

» Facilitating accreditation and re-accreditation of new and existing programmes via AMIS.
» Conducting tracer and student exit surveys to inform continuous improvement.
» Implementing the new QR code system for student feedback.
» Finalising the revised Quality Assurance Policy.
» Developing an institutional database for accreditation tracking.

4.0 Challenges

- Low alumni response rates in tracer studies.
- Inadequate logistics and staffing for the Directorate's expanding mandate.
- Manual administration of some surveys, which remains time-consuming.

5.0 Future Plans (2025/2026 Academic Year)

- Finalize and operationalize the reviewed Quality Assurance Policy.
- Develop and implement the Directorate's Five-Year Strategic Plan.

- Enhance automation of accreditation, re-accreditation, and student feedback systems.
- Increase collaboration with GTEC, ASIIN, and Alumni Association on quality assurance initiatives.
- Build staff capacity and deliver quality assurance training across the University.
- Strengthen the Directorate's digital systems for policy communication and documentation.

6. Publications of the Directorate and staff

a) The Directorate reports and policies

» Quality Assurance Policy (undergoing review)
» 2024 Students Satisfaction Survey report
» Reports on Students Assessment of Lecturers and Courses 2024/25

b) Staff

i) Prof Mercy Afua Adutwumwaa Derkyi

Stephanie Mansourian, Ida N. S. Djenontin, Marlène Elias, Johan A. Oldekop, Mercy A. A. Derkyi, Christian A. Kull, Pablo Pacheco (2025). Ecosystem restoration centred in people. Restoration Ecology https://doi.org/10.1111/rec.70049

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Alhassan, I. S., Kyereh, B., Pouliot, M., & Derkyi, M. A. A. (2024). Effect of farmer herder conflict adaptation strategies on multidimensional poverty and subjective well-being in Ghana. African Journal of Agricultural and Resource Economics, 19(2), 181-213. https://doi.org/10.53936/afjare.2024.19(2).11

Veraart, J., Linderhof, V., van Oosten, C., Duku, C., Appelman, W., Groot, A., M. Sterk, I. Voskamp, ;M. Derkyi, M. Antwi; V. Fumey Nassah, S. Kankam Nuamah, A. Damoah and I. Gyamfi Gyamfi, I. (2024). Use of Spatial Information to Remove Barriers and to Foster Enablers of Uptake of Nature-based Solutions for Food Production and Water Resource Management in Ghana and the Netherlands, International Journal of Water Governance, 11. https://doi.org/10.59490/ijwg.11.2024.6741

Van Ewijk, E., Ataa Asantewaa, M., Asubonteng, K.O., Van Leynseele, Y.P.B., Derkyi, M., Laven, A., & · M. A. F., Ros Tonen (2024) Farmer-Centred Multi-stakeholder Platforms: From Iterative Approach to Conceptual Embedding. J Knowl Econ (2024). https://doi.org/10.1007/s13132-023-01661-7

Karim-Abdallah, B., Okai Darko, G., Gyabaah, O., Oteng Fening, L., Chimsi, I., Derkyi, M. A. A., & Yeboah-Kyere, A. (2025). Innovations, Technologies and Challenges Associated with Transnational Education. AFRICAN JOURNAL OF APPLIED RESEARCH, 11(1), 560–587. https://doi.org/10.26437/ajar.v11i1.870

ii) Dr. Gifty Serwaa Mensah

Mensah, S. K., Nyantakyi, E. K., Mensah, G. S., Siabi, E. K., Ackerson, N. O. B., Antwi-Agyei, P., Donkor, P., Siabi, S. E., Bandoh, T., Owusu, P. A., & Vuu, C. (2025). Assessing the environmental and socio-economic impacts of small-scale mining activities in the Atiwa East District of Ghana. Scientific African, *e02542. https://doi.org/10.1016/j.sciaf.2025.e02542

iii) Bright Karim-Abdallah

Karim-Abdallah, B., Okai Darko, G., Gyabaah, O., Oteng Fening, L., Chimsi, I., Derkyi, M. A. A., & Yeboah-Kyere, A. (2025). Innovations, Technologies and Challenges Associated with Transnational Education. AFRICAN JOURNAL OF APPLIED RESEARCH, 11(1), 560–587. https://doi.org/10.26437/ajar.v11i1.870

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Weyori, B. A., Harris, E., Karim-Abdallah, B., Gyabaah, O., & Kopri, G. (2024). Improved Convolutional Neural Networks Model in the Identification and Classification of Monkey Species. Journal of Harbin Engineering University, 45(11).

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Arhin, E., Karim-Abdallah, B., & Baah, C. (2025). Increasing Cases of Non-Communicable Diseases in Mining Areas of Ghana: Is it a Lifestyle or Hidden Players at Work?. Medical Research Archives, 13(1).

Weyori, B. A., Karim-Abdallah, B., Opoku-Gyabaah, E., & Kopri, G. (2024). Gamification Applications Trends: A Comprehensive and Systematic Mapping Study. Journal of Harbin Engineering University, 45(11).

iv) Abigail Yeboah-Kyereh

Karim-Abdallah, B., Okai Darko, G., Gyabaah, O., Oteng Fening, L., Chimsi, I., Derkyi, M. A. A., & Yeboah-Kyereh, A. (2025). Innovations, Technologies and Challenges Associated with Transnational Education. AFRICAN JOURNAL OF APPLIED RESEARCH, 11(1), 560–587. https://doi.org/10.26437/ajar.v11i1.870

PROCUREMENT DIRECTORATE

PROCUREMENT DIRECTORATE

1.0 Introduction

The Procurement Directorate at the University of Energy and Natural Resources (UENR) plays a pivotal role in supporting the University's Academic, Research, and Administrative functions by ensuring timely and cost-effective acquisition of goods, services, and works. Guided by the Public Procurement Act, 2003 (Act 663) as amended and the University policies, the Directorate upholds the principles of transparency, fairness, and value for money in all procurement activities.

Below are the Staff of the Procurement Directorate:

NAMES	RANK/POSITION	QUALIFICATION
John-Baptist, Siddick	Director, Procurement	MCIPS, CMILT, MSc. PgC. BSc, HND
Baffour Antoa Mensah	Senior Procurement Officer	MCIPS, CMILT, LLM, LLB, MBA. BSc, HND
Emmanuel Kankam-Boadu	Procurement Officer	MCIPS, CMILT, MSc. ADILT, HND
Kofi Dwomoh	Principal Procurement Assistant	MCIPS, MSc., BSc
Peter Osei	Senior Procurement Assistant	MCIPS, MILT, MSc., B-Com
Gertrude Sefah Boakye	Senior Procurement Assistant	MSc., B-Tech, HND
Comfort Mahama	Senior Administrative Assistant	BSc. Administration

Major Activities over the Past Year

During the year under review, the Procurement Directorate initiated and completed the following projects:

- Construction of a Pre-School with Ancillary Facilities, including installation of Outdoor Playground Equipment and classroom furniture for the University Basic School (UBS).
- Renovation of the Earth Observation Research and Innovation Centre (EORIC).
- Refurbishment of Hall II Reading Room.
- Refurbishment of the New Library Block at Sunyani Campus.
- Construction of a Kraal at Dormaa Campus.
- Installation of Furniture and Curtain Blinds at the UENR SRC Reading Room (University Hall II).

- Supply and installation of FM STL System for Greena FM.
- Conversion of a Lecture Hall into a Laboratory for Agricultural Science at Dormaa Campus.
- Conversion of a Storage Room into offices for the Information Technology Directorate at Sunyani Campus.
- Construction of a Digester and Overflow Basin for the Level Up Project at Sunyani Campus.
- Construction of a Paved Walkway from the Roundabout (University Hall I) to the Science Block at Sunyani Campus.

In addition, goods and services valued at GH¢21,119,400.00 were procured for various Schools, Directorates, and Departments. The Directorate also initiated and signed its first Framework Agreement for frequently used goods, including Routine Maintenance items, Cleaning Supplies, Stationery, Toners, and Cartridges.

Ongoing Activities:

- Construction of Concrete Platforms for University Halls I and II.
- Construction of a Pump House for University Halls.
- Roofing and Window Canopy installation for University Hall II.
- Renovation of the Demonstration Laboratory for the Nursing Department.
- Renovation of the Vice-Chancellor's Residence.
- Construction of a Four-Storey Laboratory with offices for the Basic and Applied Biology Department (Phase II).
- Vertical extension of existing Pavilion Blocks A & B.
- Procurement of two Riso Comcolor FT1430 machines and accessories.
- Procurement of Textbooks for the University Library.
- Procurement of ICT equipment and accessories to support students' practical work.
- Consultancy services for the Design and Development of a comprehensive Non-current Asset Register.
- Procurement of office furniture for the Multi-Purpose Building.
- Procurement of Reading Materials and Laboratory Equipment for the Medical School.
- Refurbishment of Lecture Halls

CONFERENCES/ WORKSHOPS/ SEMINARS

Some staff of the Procurement Directorate attended the following Conferences/ Workshops/ Seminars

1. Training workshop organized by Ghana Association of University Administrators (GAUA)-UENR Local Chapter on the theme "The 21st Century Administrator Charting a new Paradigm"
2. A-2day Supply Chain Research Summit on the theme "Africa Supply Chain

Resilience for Economic Transformation" (Virtual)

3. Continuous Professional Development Seminar "GHANEPS and its Implementation; Prospects and Emerging Challenges, The Role of Entity Heads and Procurement Officers" organised by CILT
4. A-2day workshop on "Supply Chain Analytics" organised by the Centre for Applied Research and Innovation in Supply Chain - Africa (CARISCA) and accredited by and co-hosted with the Kenya Institute of Supplies Management (KISM) and Strathmore University Business School (Virtual)
5. CILT Logistics and Transport Conference (CLTC), Exhibition and AGM theme: ''Logistics and Transport Operations in the Green and Circular Economy".
6. CILT Africa Forum 2025 Held in Kigali, Rwanda. "Sustainable Logistics and Green Transport Solutions for Africa"

CHALLENGES

The Directorate faced recurring delays in supplier payments after contractual obligations were fulfilled. These delays, exacerbated by a lack of communication between the Finance and Procurement Directorate, have led to operational and reputational setbacks. Some suppliers have suspended deliveries or services due to non-payment, threatening critical operations and diminishing vendor trust. The Directorate lacks visibility on payment status, limiting its ability to intervene or report accurately. Collaborative resolution is essential to restore supplier confidence and ensure operational continuity.

Also, delays in requisition approvals persist due to manual routing, poor traceability, risk of data loss from paper forms, and limited access for remote users.

FUTURE PLANS OF THE DIRECTORATE

The Directorate is in the process of implementing an E-Requisition system to streamline procurement through digital workflows. This initiative aims to:

- Increase efficiency and transparency.
- Improve accessibility for Heads of Directorates, Departments, and Schools.
- Enable real-time tracking and approvals.

This transformation will enhance procurement processes at the initiation stage, promoting greater efficiency, accountability, and institutional performance.

FINANCE DIRECTORATE OFFICE

FINANCE DIRECTORATE OFFICE

1.0 Introduction

The Finance Directorate oversees the overall Financial Management and Accountability of the University. Its core mandate includes the Preparation of Annual Budget Estimates, Maintenance of Accurate Financial Records, Production of Statutory Financial Statements, and Generation of Periodic Budgetary and Management Reports.

The Directorate is headed by the Director of Finance, who serves as the Chief Accounting Officer, ensures compliance with national financial laws and regulations, including the Public Financial Management (PFM) Act and other related enactments.

In addition, the Directorate manages Donor-Funded Projects, Students' Financial Records, Fixed Assets, Stores, and produces reports on these to enhance transparency and accountability. It also provides Financial and Sustainability Reports to support the University's Academic and Administrative Functions, including Accreditation of Academic Programmes.

2.0 DIVISION/DEPARTMENTS AND STAFF

The Directorate has two (2) main Divisions, each headed by a Deputy Director of Finance. These are: The Financial Accounting Division and the Management Accounting Division.
The Financial Accounting Division encompasses the Treasury Department and the Financial Reporting and Student Financial Management Department, whereas the Management Accounting Division oversees the Budget Department and the Payroll Department.
Additionally, the Directorate has Accounting Staff in all the Self-Accounting Units, which comprises: The University Clinic, University Halls, the University Basic School, and the Cafeteria. These Staff report directly to the Director of Finance.
Furthermore, the Finance Secretariat, under the leadership of the Director of Finance, oversees administrative duties and helps coordinate the affairs of the Directorate.
In total, the Directorate has Thirty-Nine (39) Staff; Eleven (11) Senior Members, Twenty-Seven (27) Senior Staff, and One (1) Junior Staff.

3.0 ADMINISTRATION OF THE FINANCE DIRECTORATE

Name of Officer	Qualification	Rank/Designation
Mr. Paul Nana-Nketiah	ACCA, ICA (GH), MBA, BSc. Administration	Director of Finance
Mr. Stephen Yaw Ntiamoah	FCA, MIoD, CECRF, CPFA: ICA(GH), IIA, MBA (Accounting), HND Accounting	Deputy Director of Finance/ Head, Management Accounting Division

Mr. Augustine Opoku-Mensah	ICA (GH), MBA (Finance), BSc Administration	Deputy Director of Finance/ Head, Financial Accounting Division
Dr. Emmanuel Asare	PhD Project Management, ICA (GH), CIFIA (GH), Master of Financial Management, BA (Publishing Studies)	Senior Accountant/Head, Treasury Department
Ms. Bernice Twenewaa Osei	ChPA, MBA (General Management), BBA (Management),	Senior Assistant Registrar/ Head, Finance Secretariat
Mr. Victor Kwadwo Bosea	ICA (GH), MBA (Finance), BA (Business Studies)	Senior Accountant/Head, Payroll Department
Mr. Patrick Kwame Basuah	ICA (GH), MCIT, MBA (Finance), BSc. Business Administration (Accounting) HND Accounting	Ag. Head, Financial Reporting and Student Financial Management Department
Mr. Enoch Kyeremeh	MBA (Accounting), BSc Economics	Assistant Accountant/Head of Stores
Mr. Emmanuel Adinkra	ICA (GH), MSc (Accounting & Finance), BSC (Accounting Education)	Assistant Accountant
Ms. Adelaide Yelwontaa Tang	ICA (GH), MPA, MBA (Finance), BMS	Assistant Accountant
Ms. Jennifer Opoku Mensah	ICA (GH), MBA (Finance), BBA (Accounting)	Assistant Accountant

Over the past year, the Office undertook the following activities;

4.0 OTHER STAFF

The names of Staff at the respective Divisions and Departments are listed below;

FINANCIAL ACCOUNTING DIVISION

	Name of Officer	Rank
	Mr. Augustine Opoku-Mensah, Head of Division	Deputy Director of Finance

TREASURY DEPARTMENT	Dr. Emmanuel Asare, Head of Department	Senior Accountant
	Ms. Rita Bernice Kuuire	Chief Accounting Assistant
	Ms. Priscilla Anim	Principal Accounting Assistant
	Ms. Sarah Boatemaa	Principal Accounting Assistant
	Mr. Joseph Nantwi Baafi	Senior Accounting Assistant
	Mr. Ebenezer Dagoe	Senior Accounting Assistant
	Mr. Emmanuel Blay	Senior Accounting Assistant
	Ms. Georgina Anane	Senior Accounting Assistant
	Mr. Emmanuel Abale	Accounts Clerk
Financial Reporting and Student Financial Management Department	Mr. Patrick Kwame Basuah, Ag. Head of Department	Accountant
	Ms. Adelaide Yelwontaa Tang	Assistant Accountant
	Mr. Joshua Asubonteng	Senior Accounting Assistant
	Mr. Victor Quaye	Senior Accounting Assistant
		Chief Accounting Assistant
	Ms. Hannah Antwi	

MANAGEMENT ACCOUNTING DIVISION

	Name of Officer	Rank
	Mr. Stephen Yaw Ntiamoah, Head of Division	Deputy Director of Finance
BUDGET DEPARTMENT	Mr. Obed Addo	Principal Accounting Assistant
	Ms. Belinda Agyeiwaa Adu	Senior Accounting Assistant
PAYROLL DEPARTMENT	Mr. Victor Kwadwo Bosea, Head of Department	Senior Accountant
	Ms. Jennifer Opoku Mensah	Assistant Accountant
	Mr. Bismark Kofi Asante	Senior Accounting Assistant

STORES

	Name of Officer	Rank
BUDGET DEPARTMENT	Mr. Enoch Kyeremeh, Ag. Head	Assistant Accountant
	Mr. Enoch Doetse Anim	Senior Stores Superintendent
	Mr. Senalor Samuel Dengbey	Stores Superintendent

DORMAA CAMPUS

	Name of Officer	Rank
DORMAA	Mr. Richard Akwasi Adjei	Senior Accounting Assistant
	Mr. Nelson Atipoe	Senior Accounting Assistant

SELF ACCOUNTING UNITS

	Name of Office	Rank
CAFETERIA	Mr. Mathew Sarfo	Senior Accounting Assistant
CLINIC	Ms. Patricia Danquah	Assistant Accountant
	Mr. Prince Amankwah Yeboah	Senior Accounting Assistant
	Ms. Doris Gyamea	Senior Accounting Assistant
UNIVERSITY HALLS	Mr. Emmanuel Adinkra	Assistant Accountant
	Mr. George Anane	Senior Accounting Assistant
	Ms. Charity Awazi	Senior Accounting Assistant
	Ms. Elizabeth Peprah	Senior Accounting Assistant
	Mr. Emmanuel Asiedu Bimpong Sackey	Senior Accounting Assistant
University Basic School	Mr. Humphrey Teye Manso	Senior Accounting Assistant

FINANCE SECRETARIAT

	Name of Officer	Rank
	Ms. Bernice Twenewaa Osei, Head, of Finance Secretariat	Senior Assistant Registrar
	Ms. Edna Frimpong	Senior Administrative Assistant

5.0 MAJOR ACTIVITIES OVER THE PAST YEAR

- Preparation of the Finance Directorate's Performance Operational Manual
- Compilation of a Comprehensive Fixed Asset Register

6.0 OTHER ACTIVITIES

6.1 WORKSHOPS/CONFERENCES/SEMINARS

- Attended a training on refocusing Sustainable Best Practices in Education Management organized by St. Andrews Lean Consulting (St. Andrews University, Scotland) at De Vere Wokefield Estate Conference Centre, Goodboys Lane, Mortimer, Reading, United Kingdom from 24th August – 3rd September, 2025.
- Attended a Senior Leadership training by GLOMACS at JW Marriott Grosvenor House, London from 7th – 11th March, 2025.
- Attended a meeting to discuss the modalities for the operationalization of the arrangement for the provision of banking service for Non-Tax Revenue/IGF collection by state banks on behalf of tertiary institutions on 3rd October, 2025, at Alisa Hotel, Accra.
- Attended a one-day Masterclass training on Analytics with Power BI and AI at Techiman on 6th October, 2025.
- Honoured an invitation by GTEC for the 2026 Budget hearing on 19th October, 2025.
- Attended GIFMIS meeting with the GIFMIS Director and the Deputy Minister of Finance at the Ministry of Finance, Accra, on 3rd October, 2025, at Alisa Hotel, Accra.
- Attended a workshop on 2026-2029 Budget Production on 9th September, 2025.
- Attended a training on the projection of 2026-2029 Non-Tax Revenue/IGF on 26th August, 2025
- Attended the 2025 Accountants' Week Celebration in Takoradi from 17th - 20th June, 2025.
- Attended an orientation organized by the University for Deans, Directors, Heads of Departments, and Centre Heads, 24th-26th September

7.0 CHALLENGES

i. Lack of an Accounting Software for the operations of the Directorate.
ii. Inadequate office space and furniture for the Staff of the Directorate.
iii. Inadequate office equipment, such as computers, photocopiers, printers, scanners, etc.
iv. Inadequate staff due to the non-availability of financial clearance to recruit.

8.0 FUTURE PLANS OF THE OFFICE/DIRECTORATE/DIVISION

(i) From 2026, the Schools will have Accountants who will manage their respective accounts and financial transactions, as well as prepare quarterly Financial Performance Reports to be included in the University's Financial Performance Report, for subsequent presentation to the University Council.

(ii)Training of all Staff of the Directorate and some selected Staff of the University on Fixed Asset Registration.

(iii) Extend an invitation to selected officers from GIFMIS to conduct advanced training sessions for the Staff of the Directorate, thereby equipping them with the necessary skills to enroll in GIFMIS by 2026.

INTERNATIONAL RELATIONS OFFICE (IRO)

INTERNATIONAL RELATIONS OFFICE

1.0 Introduction

The International Relations Office (IRO) of the University of Energy and Natural Resources (UENR) is pleased to submit this report on its activities and achievements for the 2024/2025 Academic Year, in fulfillment of the Vice-Chancellor's call for annual reports from all Schools, Directorates, Centres, Departments, and Divisions.

During the period under review, the IRO continued to advance the University's internationalization agenda by strengthening existing partnerships, facilitating new Memoranda of Understanding (MoUs) with reputable local and international institutions, and promoting student and staff mobility programmes. The Office also provided strategic coordination and administrative support for international collaborations, capacity-building initiatives, and representation of UENR in global academic and research networks.

This report highlights the key milestones, achievements, challenges, and prospects of the IRO within the reporting year, reflecting its contributions to the realization of UENR's mission of producing globally competitive graduates and fostering sustainable development through international cooperation.

1.1 Vision, Mission and Strategic Objectives

Many public universities in Ghana are facing various challenges that put pressure on their financial capability. The story of UENR is not different. However, students expect a value for money for their payment of tuition fees and other related academic user fees in the quest of enjoying quality academic services and standard facilities. So, the question now is, What short-term ventures can UENR create or partner to stay financially liquid and sound to run day-to-day activities while pursuing other long-term objectives without solely depending on the Government of Ghana?

2.0 DIRECTORATE/DIVISION AND STAFF

International Relations Office

Prof. Amos.T. Kabo-bah	Dean
David Sekyi Yirenkyi	Assistant Registrar
Priscilla Konabea	Senior Administrative Assistant

MAJOR ACTIVITIES OVER THE PAST YEAR

1. Completed Activities

- IRO hosted and Organized the International Day Celebration on 30th July 2025
- Embarking on International students Recruitment Drive at Lagos, Nigeria by David sekyi yirenkyi, Assistant Registrar, IRO from 2nd to 7th December 2024
- Prof Amos.T. Kabo-bah, Dean, IRO participated at the Space Law Technical Advisory to Ghana form 17th to 19th June 2025
- IRO facilitated a signed MOU between UENR and Lancaster University aimed at

fostering research collaboration, student and faculty mobility on 6th February, 2025.

- IRO facilitated an agreement between UENR and DBAR to continue operating the DBAR International Center of Excellence at UENR, focusing on big-earth data for sustainable development in West Africa on 9th June, 2025.
- Facilitated student and staff exchange mobility programmes such as Erasmus+ Mobility Programme for Students for the Summer Semester 2025 during the tear under review
- IRO also hosted information session and online international student recruitment on weekends at the 1st quarter of 2025

2. ONGOING ACTIVITIES

- IRO is currently facilitating the Erasmus+ Mobility Programme for Students for next year Summer Semester 2026
- IRO is currently in preparations towards hosting next year's International Day Celebration
- IRO in collaboration with Ghana Export Promotion Authority (GEPA) is currently preparing to embark on an international student recruitment drive outside the country.

OTHER ACTIVITIES

Workshops

- Prof. Amos.T.Kabo-bah, Dean, IRO participated and spoke on space/remote-sensing at Space Tech / Belt & Road forums in Chengdu on 11th –17th June 2025.
- David sekyi yirenkyi, Assistant Registrar, IRO attended the grant writing workshop hosted by the Covenant University at Ota, Ogun State,Nigeria on 2nd to 3rd December 2024.

Conferences

- Prof. Amos.T.Kabo-bah, Dean, IRO was a speaker and ICoE representative at the 9th Digital Belt and Road Conference (DBAR 2025) Chengdu, China on June 8th – 12th June, 2025
- The Dean of IRO was a speaker and panelist at the session on leveraging NRENs for meteorological & climate research at Central African R&E Network conference / AGM in Dakar, Senegal on 10th –12th April 2025.
- Prof. Amos.T.Kabo-bah, Dean, IRO was a Co-Chair, Local Organizing Committee at 2nd International STHISD Conference at UENR, Sunyani on 20th –22nd August 2025
- Prof. Amos.T.Kabo-bah, Dean, IRO delivered a keynote during the opening ceremony CASCA Week 2025 / CASCA activities at Deqing, China.
- Prof. Amos.T.Kabo-bah, Dean, IRO reported on the presence and interventions on soils/ space/earth-observation themes at UN ocean conferences in May–June 2025

CHALLENGES

- Lack of staff to administer enough task as the Office requires some division of labour across its units
- The Office needs more funding allocation to help administer most of its internal and external mandates.

FUTURE PLANS OF THE OFFICE/DIRECTORATE/DIVISION

- The IRO is currently preparation to construct an International Office Complex in the future.
- The Office is also working to secure donor funding through its agreement with partners to aid international students' sponsorship and support in the future.

CENTRE FOR GRANTS, RESEARCH AND INNOVATION (CeGRI)

CENTRE FOR GRANTS, RESEARCH AND INNOVATION (CeGRI)

1.0 Introduction

In line with the Vice-Chancellor's vision and the University's status, the Centre for Grants and Research Innovation (CeGRI) was established in June 2021. The Centre aims to promote research activities, efficiently administer research grants, awards, fellowships, and scholarships, and ensure high-quality research that meets international standards.

1.1 Vision, Mission and Strategic Objectives

To become a strong and efficient research support and grant management system to drive accelerated institutional development in research.

To achieve this vision, CeGRI shall coordinate research activities in the University through the provision of various technical, administrative and financial management support services that enhance delivery of high-quality research and innovation that meet international standards.

2.0 Staff

Dr. Peter Osam Sanful	Head
Dr. John Kwasi Annan	Assistant Registrar
Mr. Bright Adarkwah	Senior Administrative Assistant

3.0 Major Activities

3.1 Completed Activities

3.1.1 Support services for the submission of research proposal

The Centre supported several research teams to prepare and process documents needed to accompany the submission of research proposals such as research agreements, letters of awards and letters of institutional support. The Centre provided expedited services to staff (both teaching and non-teaching) to ensure that all documentation needed by the University Community to submit a proposal for research grant, consultancy, fund raising, and all research related activities were secured within the shortest possible time. The Centre also facilitated due diligence exercises for some research teams to secure their grants. So far, CeGRI supported the submission of six (6) grant applications.

3.1.2 Research Policy and related documents

Through a consultative process, involving all the schools and departments, a draft research policy and guidelines for project administration for the University was developed and approved by academic board and currently tabled for consideration by the University Governing Council. The policy documents and guidelines are meant to ensure the effective and efficient planning, coordination, regulation, and management of research activities in the University as well as ensure accountability in the conduct of research.

3.1.3 Set up of Steering Committees

At the instance of the Vice-Chancellor, a nine-member Central Consultative Research Committee (CCRC) was set up to undertake a number of steering roles in the life of the university's research agenda. Among their roles include;

- Advise the university management on all research and innovation matters
- Formulate, implement and review the University Research Agenda
- Review the University Research Policy and Project Administration Guidelines and all research related policies and make necessary recommendations to Management and Academic Board.

Also, a five-member committee was set up to oversee all Intellectual Property and related matters in accordance with Section 5.2 of the University's IP Policy, 2021. Chief among their duties are;

i. Advise the Vice-Chancellor on matters of Intellectual Property and Technology Transfer and its administration
ii. Create awareness on the University Intellectual Property and Technology Transfer Policy
iii. Support the creation and development of an enabling environment for Intellectual Property and Technology Transfer in the University.

3.1.4 Ongoing Development of Database of Existing Projects

A compilation of all past and ongoing projects and the respective Principal Researchers in the university has been done and continues to be updated with new and incoming projects. Majority of the Principal Investigators/ Project Coordinator have so far shown their commitment and cooperation in submitting project details for the exercise. This is an ongoing process, and the database is relevant and useful for project development and proposal writing enhancing the profile and visibility of the University.

4.0 Ongoing Activities

4.1 Research Performance Monitoring and Evaluation Reporting

CeGRI is working on publishing the first institutional research performance report by facilitating the registration of all staff on ORCID, SCOPUS and Researcher ID platforms through the School Research Officers. This is part of measures to ensure the effective evaluation of institutional research output. So far, the response has been encouraging, although more staff are yet to register. The report will be a baseline data for UENR research performance analysis. Additionally, it will help rank the performance of individual staff, Departments and Schools to generate the institutional research performance report of the UENR.

4.2 Grant Funding Programme (GFP)

In pursuance of the university's mission on research, the university's strategic plan on research, the Vice-Chancellor's vision on research, the University's Research Agenda (URA) and the strategic research development plan (SRDP) for coordinated research action and development, the Centre for Grants, Research, and Innovation (CeGRI) held its maiden Research Grant Award Ceremony on Monday, 25th November, 2024 to present an award of Twenty-Five Thousand Ghana Cedis (GHS 25,000) to six (6) successful staff under the theme, "Nurturing innovative ideas to maximize research impact for sustainable Development."

The overarching goal of the GFP was to give support to researchers internally for enhanced research output, capacity building, internationalization, and institutional visibility in accordance with both the mission of the university and the Vice-Chancellor's vision. It also aimed at accelerating the progress towards being ranked in the Times Higher world university rankings and other research development milestones in line with the University Research Agenda (URA).

The programme was also used to unveil the Twenty-Five (25) selected Trainees who were successful in a competitive call for interested staff from across the university for the inaugural Coaching and Mentoring Programme (CAMP).

4.3 Coaching and Mentoring Programme (CAMP)

As part of an efforts to fully develop the capacity of staff with the required knowledge and skills in grant writing, CeGRI rolled out a new paradigm in research capacity development programme known as Coaching and Mentoring Programme (CAMP). Successful participants were taken through the 1st phase of 4-phases of rigorous tailor-made coaching and mentoring programme, which housed 25 participants for one week outside Sunyani for practical sessions and real time preparation to equip them with the needed competences, skills, and knowledge to be able to respond to ongoing calls. At the end of the 1st phase, participants were able to:

- Develop grant writing skills
- Network with experienced grant masters, mentors and peers, fostering collaborations and teamwork
- Develop concept notes and proposals
- Pursue ongoing professional development and career growth with the field of grantsmanship.

5.0 Challenges

a. The Centre is severely hampered by corresponding resources needed for the effective delivery of our mandate.
b. The Centre is acutely understaffed, with only three out of the required full complement of eight staff to fill the core functional areas.
c. CeGRI lacks appropriate office resources and logistics to effectively perform its functions.
d. CeGRI lacks an office space to operate.

6.0 Future Plans of the Centre

The short-term plans of the Centre are.

a. Plans are far more advanced to hold a one-day workshop for all Twenty-Five (25) CAMP participants to review their proposals which were submitted for external assessment. This workshop will afford them the opportunity for effect feedback and improvement in their proposals to respond to ongoing calls.
b. Training and capacity building for CeGRI staff
c. Possible Recruitment of additional staff
d. Capacity building and training services for School Research Officers and Departmental Research and Grants Committee members.

CENTRE FOR DISTANCE EDUCATION AND E-LEARNING (CeDEEL)

CENTRE FOR DISTANCE EDUCATION AND E-LEARNING (CeDEEL)

1.0 Introduction

In accordance with statute 60, the Vice-Chancellor established the Centre for Distance Education and E-Learning (CeDEEL) in August 2021. The Centre was established with the mandate to expand access to undergraduate and postgraduate education in Ghana. The Center supports the University's mission and its strategic plan by enhancing students' learning and access through the following media; - Distance

- Sandwich
- Short Courses
- Professional Vocational/Technical Certificate Courses
- Evening Programmes

The Vision: "to be a leader in innovative distance education and e-learning, providing world-class, flexible, and accessible academic programmes that empower learners to achieve their personal, professional, and societal goals, and contribute to the sustainable development of Ghana and beyond".

The Mission: "to deliver high-quality, technology-driven and practical-oriented academic programmes that broaden access to education, foster lifelong learning, and promote academic excellence in alignment with UENR's commitment to sustainable development".

Objectives/ Goals of the Centre

1. Expand access by providing flexible, high-quality education to diverse learners, including those in remote areas and with personal or professional commitments.
2. Ensure academic quality by maintaining the same rigorous standards in distance programmes as in on-campus courses, aligned with national benchmarks.
3. Leverage technology to deliver engaging, learner-centred educational experiences through innovative digital tools.
4. Support faculty and students by offering training, resources, and technical support to enhance teaching and learning.
5. Promote lifelong learning by offering flexible, technology-enhanced pathways for continuous professional development.
6. Ensure inclusivity by developing strategies to make programmes accessible to students from diverse backgrounds and abilities.

DIRECTORATE/DIVISION AND STAFF

Administration of the Centre

NAME	Qualification	Rank/Designation
. DR. DAVID ADU-POKU	ACCA, ICA (GH), MBA, BSc. Administration	Director of Finance
. DR. ALFRED OHENENANA APPIAH	FCA, MIoD, CECRF, CPFA: ICA(GH), IIA, MBA (Accounting), HND Accounting	Deputy Director of Finance/ Head, Management Accounting Division
. MS. SAKINATU MORO	ICA (GH), MBA (Finance), BSc Administration	Deputy Director of Finance/ Head, Financial Accounting Division
. MR. SAEED SULLEY JUNIOR	PhD Project Management, ICA (GH), CIFIA (GH), Master of Financial Management, BA (Publishing Studies)	Senior Accountant/Head, Treasury Department

MAJOR ACTIVITIES OVER THE PAST YEAR

1. Completed Activities

2025 Access Course Programme

This report summarizes the conduct of the 2025-26 ACCESS Course for Nursing and Medical Laboratory Sciences organized by CeDEEL. The 10-weekend programme which began on 24th May 2025, ended on the 26th of July, 2025. In all ,182 certificate holders comprising 169 in Nursing and 13 in Medical Laboratory Sciences completed the programme, though 186 (172 and 14 respectively) were enrolled at the commencement of the course. It must be emphasized also that a total of 210 forms were sold at a unit rate of Gh¢ 200. Each student was charged a fee of Gh¢1,500.

Six (6) courses (i.e. 5 core and 1 elective) were studied by each group and these courses were excellently delivered by seven (7) highly experienced facilitators of the University. Following the approval of examination results, graduates of the course have been accessing their transcripts since August 1, 2024, to enable them buy application forms for the 2025-2026 weekend top-up admissions.

A total of Three Hundred and Fifteen Thousand Ghana Cedis (Gh¢315,000) was realized as revenue from this year's programme against an expenditure of One
Hundred and Eleven thousand, Five Hundred and Seventy Ghana Cedis (Gh¢111,570).

Admissions for 2024/2025 Academic Year

Through various initiatives by the Management of the Centre, after various screening of application forms received, student's enrollment as at 2024/2025 Academic year stands below:

2024/2025 Enrolment figures

PROGRAMME	LEVEL	NUMBER
BSc. Nursing	200	160
BSc. Nursing	300	354
BSc. Nursing	400	109
BSc. Medical Laboratory Science	200	12
BSc. Medical Laboratory Science	300	15
BSc. Medical Laboratory Science	400	82
BSc. Information Technology	100	54
BSc. Information Technology	200	35
BSc. Information Technology	300	31
BSc. Information Technology	400	33
BSc. Electrical & Electronic Engineering	200	7
BSc. Electrical & Electronic Engineering	300	35
BSc. Electrical & Electronic Engineering	400	49
BSc. Civil and Environmental Engineering	300	10
BSc. Civil and Environmental Engineering	400	8
BSc. Mechanical Engineering	100	13
BSc. Mechanical Engineering	200	18
BSc. Mechanical Engineering	300	22
BSc. Mechanical Engineering	400	30
BSc. Hospitality Management	100	13
BSc. Hospitality Management	200	8
BSc. Hospitality Management	300	19
BSc. Hospitality Management	400	11
BSc. Fire, Safety and Disaster Management	100	47
BSc. Fire, Safety and Disaster Management	200	41
BSc. Fire, Safety and Disaster Management	300	42
BSc. Fire, Safety and Disaster Management	400	26
BSc. Natural Resources Management	100	21
BSc. Natural Resources Management	200	17
BSc. Natural Resources Management	300	27
BSc. Natural Resources Management	400	24
BSc. Agriculture	200	6
BSc. Agriculture	300	22

BSc. Agriculture	400	27
BSc. Resource Enterprise and Entrepreneurship	100	14
BSc. Resource Enterprise and Entrepreneurship	200	13
BSc. Resource Enterprise and Entrepreneurship	400	10
TOTAL		1608

THE CENTRE FOR DISTANCE EDUCATION (CDE) GUIDANCE POLICY DEVELOPMENT

Following extensive consultation and collaboration through the CeDEEL Policy Committee, the CDE Guidance Policy was successfully developed during the year. As at October 29, 2025, the policy had received the approval of the Executive Committee of the University awaiting academic board's consideration. This policy serves to establish a robust management framework and quality control systems that will optimize the performance of all stakeholders involved in distance education. It seeks to uphold the credibility of CDE's diverse programs, which will include postgraduate, undergraduate, certificate, and short courses. By implementing best practices across all aspects of CDE's operations, the policy ensures the continued delivery of high-quality education and efficient service to students and staff alike.

Innovation is a key focus of the policy, which emphasizes the provision of valueadded services to enhance the overall learning experience. CDE is also committed to building strategic partnerships with industry and academic institutions, both locally and internationally, to enrich its educational offerings. These collaborations are essential for expanding learning opportunities and ensuring that students are prepared to meet the demands of the global workforce.

Moreover, the policy defines the roles and responsibilities of all stakeholders, fostering a cohesive and collaborative environment that supports the success of distance learning programs. In line with UENR's broader mission, CDE is committed to investing in the continuous professional development of its staff, faculty, and students, ensuring that they remain well-equipped to meet the evolving challenges of distance education.

This policy reflects UENR's vision of providing accessible, high-quality education to a diverse student population. The University expresses its deep appreciation to all those who contributed to the development and approval of this policy, recognizing their efforts in advancing the institution's mission through distance education.

2. ONGOING ACTIVITIES

Establishment of Study Centres

A number of potential study centres have been identified across the country for specific programmes. To this end, CeDEEL in collaboration with the Quality Assurance and Academic Planning Directorate and other relevant departments of the University have assessed some facilities for the consideration of GTEC. Strenuous engagement, consultation, collaboration and assessment with various Stakeholders such as the Ghana

National Fire Service (GNFS) and Forestry Commission of Ghana towards the establishment of study Centres in Kumasi and Accra are at advance stages. Mutually relevant programmes and official relationships are being developed or reviewed by various stakeholders.

GTEC Accreditation of Study Centres and Programmes

The committee working on the application to GTEC for accreditation of the University through the Centre (as a Distance Education accredited University) commenced its activities at the beginning of the academic year. However, the modified requirements of GTEC meant that various policies (including the CDE guidance policy, CDE specific Quality Assurance Policy etc), distance education- designed specific programmes and physical assessment of identified study centres which were not in place had to be done. In addition, the requirement of an official MoU with partner stakeholders has also contributed to the delay. Graciously, management of the university have been generous enough to support every step of the way. It is our anticipation that the GTEC accreditation for Kumasi and Accra Centres will be completed by the end of the ensuing academic year.

REGIONAL CENTRE FOR ENERGY AND ENVIRONMENTAL SUSTAINABILITY (RCEES)

REGIONAL CENTRE FOR ENERGY AND ENVIRONMENTAL SUSTAINABILITY (RCEES)

1.0 Introduction

With support from the World Bank, the Association of African Universities, the Government of Ghana and the University of Energy and Natural Resources, the Regional Centre for Energy and Environmental Sustainability was established in 2019 in response to a call by the WB and AAU to set-up Centres of Excellence in Africa as part of the African Centres of Excellence for Development Impact (ACE Impact) project. RCEES was selected as part of 8 centres in Ghana and 44 overall from 12 (out of 105 proposals) participating countries in Djibouti, West and Central Africa.

Building on the work that had started in 2015 with the introduction of the first postgraduate programs in UENR by the erstwhile Department of Energy and Environmental Engineering, the ACE Impact project came to improve quality, quantity and development impact of the postgraduate education. The broad aim of the ACE-Impact project is to:

- » Enhance capacity to deliver regional high-quality training to address the development challenge.
- » Enhance capacity to deliver applied research to address the regional development challenge.
- » Build and use industry/sector partnerships to enhance impact of the Centre on development and increase relevance of the centres education and research.
- » Build and strengthen regional and international academic partnerships to raise the quality of education in other institutions in the region.
- » Enhance governance and management to improve monitoring and evaluation, administration, fiduciary management, transparency, ability to generate resources, and project implementation.

Its vision is "to be the leading internationally-accredited Centre of Excellence that provides quality research and postgraduate education in energy and environmental sustainability." In the 2024/2025 academic year, RCEES continued to deliver its core mandates: offering postgraduate programmes (MSc, PhD), delivering professional short courses, engaging industry & stakeholder partnerships, and conducting applied research in sustainable energy and environmental systems.

2.0 Academic Programmes

The Centre is headed by the Acting Director, Ing. Prof. Samuel Gyamfi

2.1 Postgraduate Programmes

a. MSc. Sustainable Energy Engineering and Management (SEEM)
b. MSc. Energy Economics
c. MSc. Energy Policy and Sustainability
d. MSc. Environmental Engineering and Management
e. MPhil. Energy Economics

f. MPhil Energy Policy and Sustainability
g. PhD. Energy Economics
h. PhD. Energy Policy and Sustainability
i. PhD. Environmental Engineering and Management
j. PhD. Sustainable Energy Engineering and Management (SEEM)

2.2 Training activities

» Solar PV Design & Installation
» Occupational Health and Safety, NEBOSH-IGC
» Professional Certification Programme for Energy Engineers

3.0 Administration of the Centre

Ing. Prof. Samuel Gyamfi	Ag. Director
Ing. Dr. Prince Antwi-Agyei	Ag. Deputy Director
Mr. Samuel Okyereh Akowuah	Project Manager
Ms. Bernice Kyei-Mensah	Centre Registrar
Ms. Stephanie Aidoo	Principal Administrative Assistant
Ms. Ruth Agyei Addo	Administrative Assistant Intern
Ms. Vera Yeboah	Facility Manager Intern

4.0 Students Statistics

The Centre currently has Master's students in 2 cohorts of 2 programs and PhD students from 4 cohorts of 2 programs. We currently have students from across the African continent, including Chad, Gambia, Nigeria, Sierra Leone, Zambia and Zimbabwe. Over the last year, over 150 students have been trained in Professional short courses.

Programmes	Number of Students 2024/2025		
	Male Procurement	**Female**	**Total**
MSc. Environmental Engineering Management	7	4	11
MPhil. Sustainable Energy Engineering and Management	19	5	24
PhD Environmental Engineering Management	4	0	4
PhD Sustainable Energy Engineering and Management	19	5	24
Total	**49**	**14**	**63**

Name	Position	Qualification
Prof. Samuel Gyamfi	Ag. Director	BSc. Geodetic Engineering MSc. Energy Systems PhD Mechanical Engineering
Dr. Prince Antwi-Agyei	Ag. Deputy Director	BSc. Civil Engineering MSc. Water Supply and Environmental Sanitation PhD Environmental Sanitation and Health Risk Assessment
Samuel Okyereh Akowuah	Project Coordinator/ M&E Officer/ Research Fellow	PBSc Civil Engineering
Bernice Kyei-Mensah	Centre Registrar	BSc. Management with Computing Master of Public Administration Chartered Professional Administrator - Chartered Institute of Administrators and Management Consultants (CIAMC) - Ghana
Stephanie Aidoo	Principal Administrative Assistant	B.A. Economics and Linguistics MSc. Strategic Management and Leadership
Other Staff		
Dr. Gifty Serwaah Mensah	Industrial Relations Unit - RCEES Research Fellow	BSc. Chemical Engineering MSc. Industrial Ecology PhD Development Studies
Dr. Benjamin Batinge	Grants and Consultancies - RCEES Research Fellow	BSc. Business Administration MPhil System Dynamics PhD Public and Development Management
Emmanuel Yeboah Asuamah	Short Courses and Capacity - RCEES Research Fellow	BTech. Electrical and Electronic Engineering. BSc. Renewable Energy Engineering MSc. Sustainable Energy Management
Ransford Wusah Bakuri	Technical Officer (contract)	BSc. Environment Engineering MSc. Environmental Engineering Management t

Romeo Tweneboah Koduah	Technical Officer (contract)	BSc. Environment Engineering MSc. Environmental Engineering Management
Dampaak Abdulai	Research Assistant (contract)	BSc. Renewable Energy Engineering MSc. Sustainable Energy Engineering and Management
Francisca Asare-Bediako	Research Assistant (contract)	BSc. Renewable Energy Engineering MSc. Sustainable Energy Management
Mamud Musah	Research Assistant (contract)	BSc. Renewable Energy Engineering MSc. Sustainable Energy Engineering and Management
William Asamoah	Research Assistant (contract)	BSc. Renewable Energy Engineering MSc. Sustainable Energy Engineering and Management
Mathew Atinsia Anabadongo	Research Assistant (contract)	BSc. Renewable Energy Engineering MSc. Sustainable Energy Engineering and Management
Vera Yeboah	Facility Manager (contract)	BSc. Hospitality Management HND Hospitality Management
Ruth Agyei Addo	Administrator (contract)	BSc. Business Administration Master in Public Administration

5.0 Research Collaborations (Local and International)

The Regional Centre for Energy and Environmental Sustainability (RCEES) places a strong emphasis on collaborative research as a means to drive innovation, solve pressing global challenges, and promote knowledge exchange. Through a network of strategic partnerships at both the local and international levels, RCEES is building a foundation of multidisciplinary research that transcends geographical boundaries and enhances the Centre's impact in energy and environmental sustainability. These include:

- The Technical University of Berlin. Collaboration on the ProREG-Professional Education for Renewable Energy in Ghana Project. DAAD Sponsored Project. Core Team - Samuel Gyamfi, Felix Amankwah Diawuo, Eric Antwi-Ofosu.
- University of Oldenburg, University of Energy and Natural Resources and University of Antioquia on the SEEDExchange project. DAAD Sponsored Project. Core Team - Benjamin Batinge, Eric Antwi Ofosu, Ransford Wusah Bakuri, Emmanuel Asuamah Yeboah, Dampaak Abdulai.
- University of Leeds, Imperial College London, University of Energy and Natural Resources, Kigali Collaborative Research Centre, African Institute for Mathematical

Sciences, Strathmore University, University of Rwanda on the Moving Impact project. UKRI Sponsored Project. Core Team - Samuel Gyamfi, Eric Ofosu Antwi, Felix Amankwah Diawuo, Francisca Asare Bediako, William Asamoah.

» KTH Sweden, TU Delft, University of Energy and Natural Resources, VITO Belgium, TAHMO Kenya, Volta Basin Authority, KARLO Burkina Faso on the EPIC Africa project. European Union-sponsored project. Core Team – Eric Ofosu Antwi, Mamud Musah, Felix Amankwah Diawuo

» Bochum University of Applied Sciences, University of Energy and Natural Resources, on the Social perspectives of the Green Hydrogen Project. Bochum University Sponsored Project. Core Team – Felix Amankwah Diawuo, Emmanuel Asuamah Yeboah, Mathew Atinsia Anabadongo.

» United Nations Development Programme, University of Energy and Natural Resources on Supply Side Regulation for E-mobility Adoption in Ghana Project. United Nations Sponsored Project. Core Team – Felix Amankwah Diawuo, Romeo Tweneboah Koduah, Francisca Asare-Bediako, Dampaak Abdulai, Mamud Musah, Ransford Wusah Bakuri.

» Universite Nangui Abrogoua, University of Energy and Natural Resources, Université Nationales des Sciences, Technologies, Kenyatta University, Kaminuza Gatolika Y'u Rwanda, Cadi Ayyad University, Technische Hochschule Koeln on the project GreenTech Mobility: Advancing sustainable technologies through academic collaboration in Africa. European Union-Sponsored Project. Core Team – Samuel Gyamfi, Felix Amankwah Diawuo, Gifty Serwaa Mensah, Mathew Atinsia Anabadongo.

5.1 Local Collaborations

- At the local level, RCEES has developed strong relationships with Ghanaian government agencies, universities, industries, and non-governmental organizations (NGOs). These collaborations enable us to align our research agenda with national development priorities, particularly in areas related to energy transition, climate resilience, and sustainable resource management. Notable local partners include:

Government Agencies

- RCEES actively collaborates with institutions such as the Ministry of Environment, Science, Technology and Innovation (MESTI), the Environmental Protection Agency (EPA), and the Ministry of Energy to co-develop policies, conduct joint research, and provide technical support on climate action and energy-related projects. These partnerships are crucial in supporting Ghana's Nationally Determined Contributions (NDCs) and advancing the country's renewable energy agenda.

Universities and Research Institutes

- Collaborations with local academic institutions, such as the Kwame Nkrumah University of Science and Technology (KNUST), Sunyani Technical University and the University of Ghana, provide a platform for joint research and capacity-building initiatives. Through these partnerships, RCEES has been able to co-publish research findings, share resources, and develop local talent in the fields of energy and

environmental science.

Private Sector and Industry

- The Centre engages with key industry players, such as Bui Power Authority and Volta River Authority, to work on innovative projects, including solar-powered irrigation and floating solar technologies. These partnerships bridge the gap between academia and industry, ensuring that our research translates into real-world applications and contributes to the sustainable development of Ghana's energy sector.

5.2 International Collaborations

- RCEES's international research collaborations are integral to its mission of being a global Centre of Excellence. These partnerships help to expand the Centre's research capacity, introduce international best practices, and foster the exchange of knowledge on a global scale. Key international collaborations include:

Global Research Consortia

- RCEES is an active member of research consortia such as the EPIC Africa project, which involves collaboration with universities and research institutions across Africa and Europe. These consortia facilitate large-scale research projects focusing on climate change, sustainable development, and renewable energy. Through the EPIC Africa project, RCEES has been able to contribute to research on the Tana Basin in Kenya and the transboundary Volta Basin, enhancing regional water and energy management strategies.

Partnerships with International Universities

- The Centre has established strong ties with renowned universities worldwide, including the University of Oldenburg in Germany, the University of Antioquia in Colombia, Bochum University in Germany, Strathmore University in Kenya, Imperial College London in England, etc, which enhances our research and academic exchange programs. Through these partnerships, RCEES has access to cutting-edge research methodologies, advanced technologies, and global expertise in the fields of renewable energy, climate science, and environmental sustainability. Faculty and student exchange programs further strengthen these international collaborations, fostering a vibrant academic environment.

International Organizations and Development Agencies

- Collaboration with international organizations such as the United Nations Environment Programme (UNEP) and the World Bank supports RCEES's efforts in scaling up renewable energy projects and climate adaptation strategies. These partnerships also provide funding opportunities and technical support for research and capacity-building programs aimed at addressing global challenges, such as the impact of climate change on Africa's energy infrastructure.

6.0 Workshops/Conferences/Public Lectures

6.1 ING. PROF. SAMUEL GYAMFI

Workshops/Conferences/Public Lectures

- 10th International Research Symposium on Problem-Based Learning (IRSPBL) in Pretoria, South Africa on 17th - 21st November, 2025.
- 6th Africa Sustainability Report and Think Energy SDGs Awards 2025 on the theme ''A Decade of SDGs in Africa: Our Climate Goals for Agenda 2030 at Accra on 22nd - 23rd October, 2025.
- International Conference on Energy and Environment (ICEE) organized by School of Energy and School of Engineering, University of Energy and Natural Resources (UENR) from October, 2025 at UENR, Sunyani.
- Moving Impact Project Workshop at Strathmore University, Nairobi, Kenya on June, 2025
- SEEDExchange and DAAD Alumni Workshop on Renewable Energy organized by SEEDExchange in collaboration with DAAD at RCEES in University of Energy and Natural Resources (UENR), September, 2025.
- ProREG Closing Session Workshop organized by ProREG Project at RCEES, University of Energy and Natural Resources on October, 2025
- MOOC Impression Physical Workshop at Milan, Italy in February, 2025.
- MOOC Impression Physical Workshop at Sunyani, Ghana in September, 2025.

Proposal (s)

- Moving Impact Project 2025. Status: approved and funded by UK Research and Innovation (UKRI)

Publication(s)

- Gyamfi, S., Peprah, F., Kwame, A., & Aboagye, B. (2025). Electricity prosumption adoption: what to know and what you can do. In The Intersection of Blockchain and Energy Trading (pp. 193-220). Elsevier. https://doi.org/10.1016/B978-0-443-23627-3.00009-0
- Effah E., Gyamfi S., Anabadongo M. A., Diawuo F. A (2025) Post technical assessment and field manual for solar home systems in island communities: The case of Ghana. Solar Compass 14 (2025) 100107. https://doi.org/10.1016/j.solcom.2025.100107
- Djimasbe, R., Gyamfi, S., Iweh, C. D., & Ribar, B. N. (2024). Development of an ARIMAX model for forecasting airport electricity consumption in Accra-Ghana: The role of weather and air passenger traffic. e-Prime – Advances in Electrical Engineering, Electronics and Energy 9 (2024) 100691. https://doi.org/10.1016/j.prime.2024.100691.
- Lartey, D. H., Gyamfi S., Velenderic M., Appiah O., (2024) Assessment of PV excess generation savings in Ghana considering peer-to-peer energy trading. Energy Sources Part B-Economics Planning and Policy (2024). https://doi.org/10.1080/15567249.2024.2372830
- Asante, K., Gyamfi, S., Amo-Boateng, M., & Peprah, F. (2024). Techno-economic analysis of solar PV electricity generation at Ghana's University of Environment and Sustainable Development. Energy Reports 11 (2024) 659–673. https://doi.org/10.1016/j.egyr.2023.12.028.
- Gyamfi, S., Aboagye, B., Obeng, M., & Peprah, F. (2024). Criticality and Severity of Adverse Effects of the Sun on Performance of Solar PV Systems. Solar Energy Advances 4 (2024) 100058. https://doi.org/10.1016/j.seja.2024.100058.

- Iweh, C. D., Gyamfi, S., Effah-Donyina, E., & Tanyi, E. (2024). Analysis of contingency scenarios towards a suitable transmission pathway in the southern interconnected grid (SIG) of Cameroon. e-Prime – Advances in Electrical Engineering, Electronics and Energy 7 (2024) 100486. https://doi.org/10.1016/j.prime.2024.100486.
- Ahialey, E. K., Kabo–bah, A. T., & Gyamfi, S. (2024). LULC changes in the region of the proposed Pwalugu hydropower project using GIS and remote sensing technique. Journal of Geography and Cartography 2024, 7(2), 8282. https://doi.org/10.24294/jgc.v7i2.8282.

Avordeh T. K., Gyamfi S. (2024) Optimizing residential demand response in Ghana through iterative techniques and home appliance trend analysis. Heliyon 10 (2024) e25807. https://doi.org/10.1016/j.heliyon.2024.e25807.

Community Engagement(s)

- Participated in community engagement for the purpose of collecting data for enhancing E-Mobility Adoption in Ghana– MOVING IMPACT project (September, 2025)

6.2 DR. PRINCE ANTWI-AGYEI

Research Collaborations (Local and International)

- EORIC-UENR, Czech Globe, Czech Republic, and FORIG, Ghana, collaborate to support the establishment of an International Greenhouse Gas and Global Climate Change Research Station (EC Station) in Ghana using the Eddy Covariance Method.
- Co-Principal Investigator - Fire Risk Projection Analysis Methodology project, being implemented in Ghana and Chile by the University of Energy and Natural Resources (UENR) through its Climate Action Incubation Centre (CAIC) and the Earth Observation Research and Innovation Centre (EORIC), in collaboration with the Pontifical Catholic University of Valparaíso (Chile), the Global Methane Hub, and other partners. The project aims to develop a scientific tool for assessing and managing fire risks in landfills and dumpsites under varying climatic and operational conditions.
- Workshops/Conferences/Public Lectures
- October 1-3, 2025, Participant/Presenter, 2025 International Conference on Energy and Engineering (ICEE'25) under the theme: "Engineering the Future: Smart Innovations for Sustainable Energy, Agriculture, Infrastructure, and Climate Resilience.", RCEES-UENR, Sunyani.
- September 16-18, 2025, Participant, 2025 Biannual Environment Science and Technology (BEST) Forum organized by the Ministry of Environment Science and Technology (MEST) in collaboration with Association of Ghana Industries (AGI), under the theme 'Unlocking Industrial Potential: Strategic Approaches for Ghana's Economic Transformation', La Palm Royal Beach Hotel, Accra.
- January 30, 2025, Participant, 3rd Annual General Meeting and Conference of the Ghana Institution of Engineering (GhIE) – Branch 2 on the theme: "Engineering the Future of Ghana: The Role of Emerging Technologies and Digital Transformation," held at RCEES-UENR.
- Participant - 2024 UNC Water and Health Conference, October 14-18, 2024, Friday Center, Chapel Hill, North Carolina, United States of America.
- August 26-30, 2024. Certificate of Achievement. Successful completion of Oasis VSAT course held at UENR.

- Proposals
- 2025 - Strengthening Climate Security through Community-Led Extreme Weather Early Warning Systems. African-European call for proposals “Climate Services for Risk Reduction in West Africa” (CS4RRA) (Under review).
- 2025 - Accelerating Climate-Smart Technology-Enabled Agricultural Transformation in Ghana and Côte d'Ivoire. African-European Call for Proposals “Climate Services for Risk Reduction in West Africa (CS4RRA)"
- Grant and Awards
- Co-Principal Investigator - Fire Risk Projection Analysis Methodology – Pilots in Chile and Ghana, has been funded by the NOVASPHERE with a grant of $30,000. The project is being implemented in Ghana and Chile by the University of Energy and Natural Resources (UENR) through its Climate Action Incubation Centre (CAIC) and the Earth Observation Research and Innovation Centre (EORIC), in collaboration with the Pontifical Catholic University of Valparaíso (Chile), the Global Methane Hub, and other partners. The objective is to develop a scientific tool for assessing and managing fire risks in landfills and dumpsites under varying climatic and operational conditions.
- Member - GHS 2,098,812.69 grant won from CTVET/GSDF for developing a Professional Satellite Communications (SATCOM) Certification Course designed to equip engineers, technicians, and entrepreneurs with the necessary knowledge and skills to excel in the ever-evolving SATCOM and telecommunications sector. Project was implemented by EORIC

Publications

- Mensah SK, Nyantakyi EK, Mensah GS, Siabi EK, Ackerson NO, Antwi-Agyei P, Donkor P, Siabi SE, Bandoh T, Owusu PA, Vuu C. Assessing the environmental and socio-economic impacts of small-scale mining activities in the Atiwa East District of Ghana. Scientific African. 2025 Mar 1;27:e02542.
- Mensah SK, Nyantakyi EK, Mensah GS, Siabi EK, Ackerson NO, Antwi-Agyei P, Donkor P, Siabi SE. Assessing the impact of small-scale mining activities on land use land cover and the sustainability of mining practices in Ghana: A case of the Atiwa East district. Resources Policy. 2025 Oct 1;109:105719.
- Bryant L, Maconachie R, Schnabel B, Swaray A, Howard G, Gbanie S, Bangura K, Kamara A, Antwi-Agyei P. A growing concern: investigating sustainable water quality and urban food production in Freetown, Sierra Leone. Water Supply. 2025 Feb 1;25(2):183-92.
- Yankey KK, Nyantakyi EK, Kabo-bah AT, Domfeh MK, Antwi-Agyei P, Andoh R, Ackerson NO, Yeboah SI, Minkah-Amankwah A, Atta-Darkwa T. Green roof as flood mitigation in Ghana. Natural Hazards. 2025 May 31:1-22.
- Peter N, Kabo-bah AT, Gyasi SF, Antwi-Agyei P, Yamba EI, Yieri J. Evaluating the landscape of the 1918 influenza and the 2019 coronavirus pandemics in mapping potential sentinel surveillance sites for emerging and re-emerging infectious diseases in Ghana. Clinical Epidemiology and Global Health. 2025 Jan 1;31:101901.
- Amo E, Antwi-Agyei P, Yeboah KS, Bandoh T. Groundwater Quality and Potential Human Health Risk: An Investigation of Heavy Metal Contamination at Sunyani Magazine, Ghana.
- Yeboah SI, Antwi-Agyei P, Kabo-Bah AT, Ackerson NO. Water, environment, and health nexus: understanding the risk factors for waterborne diseases in communities along the Tano River

Basin, Ghana. Journal of Water and Health. 2024 Aug 1;22(8):1556-77.

- Gyabaah D, Awuah E, Kuffour RA, Antwi-Agyei P, Wiafe S, Asiedu SB. Assessment of dumpsites leachate, geotechnical properties of the soil, and their impacts on surface and groundwater quality of Sunyani, Ghana. Environmental Advances. 2024 Jul 1;16:100548.
- Mangueina D, Awuah E, Fonteh MF, Antwi-Agyei P, Nadji ET. Assessment of current water, sanitation, and hygiene (WASH) practices in the third and ninth districts of N'Djamena, Chad. Journal of Water and Health. 2024 Feb 1;22(2):414-35.
- Yeboah SI, Antwi-Agyei P, Kabo-Bah AT, Ackerson NO. Modeling the fate and transport of E. coli pathogens in the Tano River Basin of Ghana under climate change and socioeconomic scenarios. Environmental Science and Pollution Research. 2024 Oct;31(50):60465-84.
- Barajei C, Bamfo-Agyei E, Antwi-Agyei P, Doumbia MO, Nyameche M. Success of the tender stage of Ghanaian public labor-based construction projects. Journal of Public Procurement. 2024 May 21;24(3):281-301.

6.3 WILLIAM ASAMOAH

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE) on the theme '' Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience'' at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on October 1 – 3, 2025.
- Phenology Dataset Workshop at CEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on July 17 – 18, 2025
- International Conference on Energy and Engineering (ICEE) 2024 at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on September 30 – October 4, 2024.
- Future of Energy Conference 2024 on the theme '' Harnessing Africa's Resource Wealth: Fueling Innovation for Equitable Energy Access'' by Africa Centre for Energy Policy (ACEP) on August 26–28, 2024.

Publication(s)

Kemka, U. N., Ogbulie, T. E., Oguzie, K., Akalezi, C. O., Oguzie, E. E., Asamoah, W., & Nlemolisa, O. R. C. (2024). Algae, a biological purification tool for biogas upgrade: a review. EQA - International Journal of Environmental Quality, 64, 33–47. https://doi.org/10.6092/issn.2281-4485/19915

Asamoah, W. (2025a). AptamerForge Python Library for Aptamer Hairpin Analysis (pip install aptamerforge).

Asamoah, W. (2025b). Dataset of Traffic to Healthcare Facilities in Ghana (2023–2025). https://doi.org/10.5281/zenodo.16495288

Asamoah, W. (2025c). NHISScraper: Script to Automate the Complete Scraping of Claims Payment on the NHIS Site in Zenodo.

Community Engagement(s)

- As Patron for UENR Robotics Club, organized several bootcamps in programming and electronics for students.
- As Assistant Patron for Women in Engineering – GhIE UENR Chapter, supervised outreach campaigns to Senior High Schools to encourage young women to pursue higher education in

engineering.

- Produced YouTube educational tutorials simplifying complex topics in energy and engineering. https://www.youtube.com/watch?v=A4rSqkDlFRI&list=PLiI2MrPZevGPSSDSWbdPOyukCYklnOQXx

6.4 DAMPAAK ABDULAI

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE) on the theme '' Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience" at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on October 1 – 3, 2025.
- EPIC Africa Summer School organized by EPIC Africa on the focus; Capacity building on energy policy, innovation, and climate action in Africa
- Consultative Workshop on Electric Mobility Sales Targets towards Supply Side Regulation Development for Ghana on 2025.
- ProREG Training of Trainers (ToT) Workshop organized by RCEES - UENR on August, 2025.
- Social Perspectives on Green Hydrogen Workshop on the focus, Societal and community-level implications of green hydrogen adoption and policy in 2025.
- SEEDExchange and DAAD Alumni Workshop on Renewable Energy organized by SEEDExchange in collaboration with DAAD at RCEES in University of Energy and Natural Resources (UENR), September, 2025.

Publication(s)

- Puziem, A. S., Diawuo, F. A., Acheampong, P., Anabadongo, M. A., & Abdulai, D. (2025). Time series forecast of power output of a 50MWp solar farm in Ghana. Solar Compass, 14, 100111.

Community Engagement(s)

- Participated in data collection for estimating energy access in island and remote communities – SCOPE Project

6.5 FRANCISCA ASARE-BEDIAKO

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE) on the theme '' Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience" at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on October 1 – 3, 2025.
- Workshop on Supply-Side Regulation Baseline Report on E-Mobility in Ghana at Accra, in July 2025.
- Policy Working Group for Ghana Inaugural Workshop at Accra, in December 2024.
- Community Engagement(s)
- Community outreach to Bechem in the Tano South Municipality on mini-grids and EV adoption. September, 2025.

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE ‘25) on the theme ‘’ Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience’’ at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on October 1 – 3, 2025.
- 2025 CCG Ghana Annual Workshop at Accra, from September 22–26, 2025

6.6 MAMUD MUSAH

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE ‘25) on the theme ‘’ Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience’’ at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on October 1 – 3, 2025.
- 2025 CCG Ghana Annual Workshop at Accra, from September 22–26, 2025

6.7 RANSFORD WUSAH BAKURI

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE ’25) on the theme “Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience” – RCEES Auditorium, UENR, Sunyani – October 1–3, 2025
- Workshop on Supply-Side Regulation Baseline Report on E-Mobility in Ghana – Accra, Ghana – July 2025
- Policy Working Group for Ghana Inaugural Workshop – Accra, Ghana – December 2024
- 2025 CCG Ghana Annual Workshop at Accra, from September 22–26, 2025
- PROREG Project Close-Out Meeting – RCEES, Sunyani – September 2025
- SEEDExchange and DAAD Alumni Workshop – RCEES, Sunyani – September 2025
- Training Workshop on the Small Reservoirs Dashboard for Data-Driven Planning in Northern Ghana – IWMI, Accra, Ghana – August 2025
- E-Mobility Stakeholder Workshop – Accra, Ghana – July 2025
- Solar-Powered Irrigation for Smallholder Farmers in Ghana – Workshop – Accra, Ghana – July 2025
- Climate Change Risk Assessment for Akosombo and Kpong Hydro Generating Stations in Ghana – Accra, Ghana – June 2025
- Technical Workshop on National Adaptation Plans Readiness Project – Accra, Ghana – June 2025
- E-Mobility Stakeholder Dialogue – Accra, Ghana – April 2025

Publication(s)

- Addai, G. O., Ofosu, E. A., Domfeh, M. K., Bakuri, R. W., Agyemang-Boakye, B., & Yankey, B. E. (2025). Potential for small hydropower development in the Tano River Basin of Ghana using SWAT and RETScreen. Energy for Sustainable Development, 86, 101720. https://doi.

org/10.1016/j.esd.2025.101720

- Otchere, B. M. A. P., Ofosu-Antwi, E., Domfeh, M. K., Arthur, E. T., Wusah-Bakuri, R., Amoah, T., Idris Kofi Yeboah, S., Amankwah Minkah, A., Akowuah Okyere, S., & Tweneboah Koduah, R. (2025). Geospatial mapping and analysis of surface water demand, abstraction and water yield in the Tano River Basin of Ghana [Preprint]. SSRN Electronic Journal. https://ssrn.com/abstract=5155177
- Morais, J., Correia, M., Klouz, K., Ofosu, E. A., Padi, P., & Bakuri, R. W. (2025, October). Climate change risk assessment for the Akosombo and Kpong hydro stations in Ghana. In Proceedings of HYDRO 2025: Partnering for Global Solutions. Thessaloniki, Greece: Aqua Media International

6.8 MATHEW ATINSIA ANABADONGO

Workshops/Conferences/Public Lectures

- International Conference on Energy and Engineering (ICEE '25) on the theme '' Engineering the Future: Smart Innovations for Sustainable Energy and Agriculture, Infrastructure, and Climate Resilience'' at RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani on October 1 – 3, 2025
- Professional Education for Renewable Energy in Ghana – Train the Teacher Workshop – KNUST, Kumasi, Ghana – October 2025
- DIgSILENT Training on DIgSILENT PowerFactory Software – Platinum Bay Hotel – October 6–12, 2024
- Stakeholders Workshop on NDC Action Project in Ghana – Best Western Premier Hotel, Accra – September 26, 2024
- Publication(s)
- Puziem, A. S., Diawuo, F. A., Acheampong, P., Anabadongo, M. A., & Abdulai, D. (2025). Time series forecast of power output of a 50MWp solar farm in Ghana. Solar Compass, 14, 100111.

6.9 BERNICE KYEI-MENSAH

Workshops/Conferences/Public Lectures

- October, 2025 - International Conference on Energy and Environment (ICEE) organized by School of Energy and School of Engineering, University of Energy and Natural Resources (UENR), Sunyani.
- September 2025 - Participant, Orientation and Training for Deans, Directors, Heads of Departments and Centre Heads (UENR), Suynani.
- August 2025 – Participant, Driving Institutional Excellence through Energy Efficiency (UENR)
- January 2025 – Participant, Orientation and Training for Deans, Directors, Heads of Departments and Centre Heads. Theme "Strengthening Institutional Leadership: Insights and Best Practices for effective University Governance".

6.10 STEPHANIE AIDOO

Workshops/Conferences/Public Lectures

- "Reclaim Your Time With AI" – Organized by the Network of Administrative Professionals of

Ghana – May 3, 2025

- "Working with Difficult People: Staying Professional and Protecting Your Peace" – Organized by the Network of Administrative Professionals of Ghana – May 23, 2025
- "The Past, Present and Future of Administrative Work: Real Talk on the Good, the Bad and the Ugly" – Organized by the Network of Administrative Professionals of Ghana – April 23, 2025
- "Supporting the Supply Chain: What Administrative Professionals Should Know" – Organized by the Network of Administrative Professionals of Ghana – June 21, 2025
- "Managing Your Records Effectively" – Organized by the Network of Administrative Professionals of Ghana – August 30, 2025

6.11 VERA YEBOAH

Workshops/Conferences/Public Lectures

- Stakeholders Workshop on NDC Action Project in Ghana – Best Western Premier Hotel, Accra – September 26, 2024

6.12 RUTH AGYEI ADDO

Workshops/Conferences/Public Lectures

- GIZ Workshop on Solar Powered Irrigation Systems (SPIS) at South Ridge Hotel, Sunyani from March 21 – 25, 2025
- EPIC African Stakeholder Outreach and Engagement Workshop at Ghana Highways Authority, Accra from July 16 – 19, 2025
- "Managing Your Records Effectively" – Organized by the Network of Administrative Professionals of Ghana – August 30, 2025

7. GRANT AND AWARDS

a. ProREG-Professional Education for Renewable Energy in Ghana. DAAD Sponsored Project. In the project "Professional Education for Renewable Energy in Ghana - ProREG", the Technische Universität Berlin is working with the universities Kwame Nkrumah University of Science and Technology (KNUST) and the University for Energy and Natural Resources (UENR) as well as six corporate partners to address the lack of labour market relevance of education in the field of renewable energy in Ghana.

b. University of Oldenburg, University of Energy and Natural Resources and University of Antioquia on the SEEDexchange project. DAAD Sponsored Project.

c. University of Leeds, Imperial College London, University of Energy and Natural Resources, Kigali Collaborative Research Centre, African Institute for Mathematical Sciences, Strathmore University, University of Rwanda on the Moving Impact project. UKRI Sponsored Project.

d. KTH Sweden, TU Delft, University of Energy and Natural Resources, VITO Belgium, TAHMO Kenya, Volta Basin Authority, KARLO Burkina Faso on the EPIC Africa project. European Union-sponsored project.

e. Bochum University of Applied Sciences, University of Energy and Natural Resources, on the Social perspectives of the Green Hydrogen Project. Bochum University Sponsored Project.

f. United Nations Development Programme, University of Energy and Natural Resources on Supply Side Regulation for E-mobility Adoption in Ghana Project. United Nations Sponsored Project.
g. Universite Nangui Abrogoua, University of Energy and Natural Resources, Université Nationales des Sciences, Technologies, Kenyatta University, Kaminuza Gatolika Y'u Rwanda, Cadi Ayyad University, Technische Hochschule Koeln on the project GreenTech Mobility: Advancing sustainable technologies through academic collaboration in Africa. European Union-Sponsored Project.

8.0 Visits

a. Staff and Students of University of Oldenburg, DAAD Alumni and University of Antioquia visited RCEES– SEED Exchange project (Sept 2025)
b. Staff of RCEES visited Strathmore University Kenya, Moving Impact Project (June 2025)
c. Staff of RCEES visited Kenya, EPIC Project (Mar 2025)
d. Staff of RCESS visited Ethiopia, UNEP project (Oct 2025)

9.0 Future Plans of the Centre

As we look ahead, the Regional Centre for Energy and Environmental Sustainability (RCEES) is committed to scaling new heights in research, education, and societal impact. Our future plan is centered around strengthening our position as a leading Centre of Excellence in Africa while expanding our influence globally. Key areas of focus include:

a. Expansion of Academic Programs

The Regional Centre for Energy and Environmental Sustainability (RCEES) seeks to expand its academic portfolio through the introduction of new postgraduate degree programs, including MSc., MPhil., and PhD. offerings in Energy Policy and Sustainability and Energy Economics. These programs are designed to address emerging global and regional challenges in renewable energy technologies, climate resilience, and environmental economics. By diversifying its academic programs, RCEES aims to attract a broad spectrum of students and professionals from across Africa and beyond, thereby reinforcing its role as a leading institution for advanced learning, research, and innovation in energy and environmental sustainability.

b. Strengthening Multidisciplinary Research

Building on our existing research strengths, we aim to foster more interdisciplinary collaborations both within UENR and with international institutions. We will prioritize research in climate change adaptation, energy transition strategies, water-energy-food (WEF) nexus, and sustainable agriculture, with a focus on addressing the continent's most pressing sustainability challenges.

c. Capacity Building and Knowledge Transfer

RCEES will continue to lead in capacity building by offering more specialized training programs, workshops, and summer schools. We plan to expand our outreach to policymakers, industry leaders, and local communities, ensuring that the knowledge generated at the Centre translates into practical, on-the-ground solutions.

d. Partnerships and Industry Collaboration

Strategic partnerships will remain at the core of our growth. We will actively seek to build and strengthen collaborations with industry stakeholders, governments, and international organizations. These partnerships will facilitate knowledge exchange, provide funding for research projects, and create job opportunities for our students and alumni.

e. Innovations in Sustainable Technologies

The Centre aims to become a leader in the development and deployment of sustainable technologies, particularly in the fields of solar energy, hydropower, and integrated resource management. By leveraging cutting-edge research, we will pilot new technologies that have the potential to transform local and regional energy landscapes.

f. Increased Focus on Climate Action

RCEES plans to scale up its contribution to climate action, aligning its research and projects with national and international climate goals, such as the United Nations Sustainable Development Goals (SDGs) and Ghana's Nationally Determined Contributions (NDCs). We will focus on developing climate-resilient infrastructure and providing evidence-based policy recommendations to governments.

g. International Accreditation and Global Recognition

As part of our long-term strategy, we aim to secure additional international accreditations for our academic programs and research activities. By doing so, we will enhance the Centre's global reputation, attracting international students, faculty, and research collaborations.

h. Sustainable Financial Growth

RCEES is committed to ensuring the sustainability of its operations through diversified funding sources. In addition to securing more research grants, we plan to strengthen our partnerships with donor organizations and explore innovative funding mechanisms, such as industry-sponsored research and consulting services and establishment of an endowment fund.

i. Enhancing Alumni Engagement

Our alumni network is a key asset, and we will invest in programs that further engage our graduates. By fostering a strong connection with our 300-strong alumni, we will create avenues for mentorship, collaboration, and employment, while leveraging their experience and expertise to advance the Centre's objectives.

j. Community Outreach and Impact

The Centre will continue to engage with local communities to implement sustainable energy and environmental solutions. By working closely with farmers, local industries, and other stakeholders, we aim to ensure that our research and innovations have a tangible, positive impact on society.

With these forward-looking strategies, RCEES is poised to remain at the forefront of energy and environmental sustainability research and education, driving progress toward a more sustainable future for Africa and the world.

CENTRE FOR CLIMATE AND GENDER STUDIES (3CGS)

CENTRE FOR CLIMATE AND GENDER STUDIES (3CGS)

1.0 Introduction

The Centre for Climate Change and Gender Studies (3CGS) was established in 2016 with the mandate to advance research, teaching, capacity building and policy advocacy on issues of Climate Change and Gender.

2.0 Staff of The Division

The Centre Administration is constituted by the following personnel:

1.	Dr. Yaw Boakye Agyeman	Head
2.	Dr. Gyilbag Amatus	Part-time Research Fellow
3.	Rachel Yeboah Nketiah	Research Fellow
4.	Sylvia Adipah	Research Fellow
5.	Ama Ntiwaa Antwi-Boasiako Panford	Senior Administrative Assistant

Staff and Students Statistics

Staff	4
Part-time	1

3 Research Collaborations (Local and International)

International

- Partnership with the Institute of Oceans and Fisheries, University of British Columbia, Vancouver, Canada
- Partnership with the Centre for Transitional Environmental Accountability (CTEA), China on Climate Justice Research.
- Department of Computer Science, Norwegian University of Science and Technology (NTNU), Norway

Local

- » Partnership with Action Aid
- » Partnership with Youth Climate Council (YCC)
- » Workshops /Conferences/Public Lectures
- » Climate Change Debate in September 2025
- » Climate Change Quiz in July 2025
- » Climate Change Education from March - June 2024.

Funding of Research Activities

- » GHS 11,000 from Action Aid to organize Tree planting at Mmeredane Primary and JHS

Publications (for the year under review)

1. Akudugu, J. A., Apio, M. M., & Nketiah, R. Y. (2025). Gendered energy transition in rural Africa. In Elgar Encyclopedia of Energy Economics (pp. 255-260). Edward Elgar Publishing.

2. Addaney, M., Kantanka, S. N. S., & Nketiah, R. Y. (2025). African forests and global net-zero transitions. In Elgar Encyclopedia of Energy Economics (pp. 7-13). Edward Elgar Publishing.

3. Kantanka, S. N. S., Addaney, M., Nketiah, R. Y., Mensah, S. O., & Almulhim, A. I. (2025). 4. Climate change and adaptation to extreme heat in the Middle East and North Africa. Handbook on Planning and Climate Change Adaptation, 69.

4. Ofori, D, Gyilbag, A., Kakraba, K.B., Morvey, M.D. & Mwinkom, F.X.K. (2025). The Economics of Sustainable Water Resource Availability for Food Production in Ghana. African Journal of Agriculture ISSN 2375-1134 Vol. 12 (3)

5. Ofori, D. Kusi, A., Oppong-Peprah, E., Kwaku Nyarko, B., Anning, G., Edmond, A., & Gyilbag, A. (2025). Staff Performance in Small and Medium Enterprises as an impetus for economic growth in Kumasi Metropolis. International Journal of Management, Entrepreneurship, Social Science and Humanities, 8(2), 334–353. https://doi.org/10.31098/ijmesh.v8i2.2678

6. Iddi Z., Gyilbag, A., Kabo-Bah, A.T., Abugre, S., Walier, K.J. (2025). Shea Parkland Resilience: Re-examining Drivers of Deforestation in the Savannah Region of Ghana. Journal of Nature-based Solutions.

Community Engagements

- » Climate Change Education and Quiz in Basic and Senior High Schools
- » Tree Planting project at Mmeredane Primary and JHS in collaboration with Action Aid Ghana
- » Engage with Hwidiem and Tano Ano communities to co-develop research.

Visits

- Visits were made to Tuobodom, Techiman, Tano Ano and Hwidiem for data collection under the Integrated Tano River Research.

Future Plans of the Centre

- » Develop MSc (Research and Professional) programmes.
- » Develop short courses in climate change, gender and its related issues.
- » Write grant proposals to conduct more research on climate change and gender-related studies.
- » Collaborate with more stakeholders to engage in climate change education and sensitization.
- » aunch a Youth Ambassadorial Programme in Climate Change

HUMAN RESOURCES DIVISION

HUMAN RESOURCES DIVISION

1.0 INTRODUCTION

The Human Resources Division is an Office within the Registrar's Offices mandated to perform functions relating to the management of the Human Resources of the University and other related functions such as Appointments and Promotions; Training and Development; Performance Management; Employee Welfare and Labour Relations, compensation etc. Currently, the Division operates with One (1) Department and Three (3) Sections, which are Senior and Junior Staff Department, Training and Development Section; Senior Members Section; and the Human Resource Information and Records Management Section.

2.0 STAFF OF THE DIVISION

s/n	Name	Designation	Qualification (s)
1.	Mr. Hayford Asare	Head, HR Division / Deputy Registrar	Associate Member (CIHRM) MA. Human Resource Development, UCC B.Ed.-Foundations, UCC Teachers' Certificate 'A' (Berekum Training College,Berekum)
2.	Mr. Charles Kojo	Head, Senior and Junior Staff Department / Senior Assistant Registrar	Full Member (CIAMC-Ghana) MA. Human Resources Management, UCC BA. Sociology with Study of Religion (UG-Legon)
3	Ms. Juliet Assumeng Benewaa	Head, Training and Development Section/ Assistant Registrar	MPhil. Business Administration (Human Resources Management), KNUST-Kumasi. MBA. Human Resource Management, UCC Post Graduate Diploma in Education, UCC Bachelor of Management Studies, UCC HND Secretaryship and Management Studies DBS (Secretarial Option), STU

4	Ms. Cecilia Kubio	Head, Senior Members Section/ Assistant Registrar	MSc. Development Policy and Planning, KNUST Postgraduate Diploma in Education, CUCG BA. Integrated Development Studies, UDS, Teachers' Certificate 'A'-St. John Bosco's Teacher Training College, Navrongo.
5	Mr. Clement Gyamfi	Junior Assistant Registrar	Master of Business Administration Strategic Management, VVU, Oyibi BSc. Sports and Exercise Science, KNUST-Kumasi
6	Ms. Kate Afram	Junior Assistant Registrar	Associate Member, CIHRM, Ghana MBA.Human Resource Management, UCC Bachelor of Business Administration-Human Resource Management, VVU-Oyibi
7	Mrs. Priscilla Ama Esaa Owusu-Ansah	Junior Assistant Registrar	Chartered Accountant MBA. Human Resources Management, UCC Bachelor of Commerce, UCC
8	Mr. Richmond Nketiah Sakyi	Senior Administrative Assistant/ Contract	BSc. Information Technology, UENR
9	Ms. Sarah Gyamfi	Senior Administrative Assistant/ Contract	BBA Human Resource Management (Kwame Nkrumah University Of Science And Technology, Kumasi-Ghana) Diploma Hospitality Management (University Of Energy And Natural Resources, Sunyani-Ghana)
10	Ms. Edel Nana Kuruwaa Adjei	Senior Administrative Assistant/ Contract	BSc. Information Technology Management (University of Professional Studies, Accra)
11	Mr. Kenneth Boafo	Senior Administrative Assistant/ Contract	BSc. Information Technology Management (University of Professional Studies, Accra
12	Mr. Philip Agyei Boadu	Senior Administrative Assistant/ Contract	BSc. Resource Enterprise and Entrepreneurship, UENR
13	Ms. Ellen Otchway	Senior Administrative Assistant/ Contract	BSc. Hospitality Management (University of Energy and Natural Resources, Sunyani)

3.0 MAJOR ACTIVITIES UNDER THE PERIOD OF REVIEW

3.1 Major Activities over the Past Year Under the Junior and Senior Staff Department

i. Completed Activities

- Completed Activities
- 31st APCSJ Meeting
- 32nd APCSJ meeting
- National Service postings (2024/2025) Academic Year.
- Facilitated in Training Junior staff

ii. Ongoing Activities

- Upcoming 33rd APCSJ meeting
- National Service Postings (2025/2026) Academic Year
- Renewal of Contract staff

3.2 Major Activities over the past year under Training and Development Section

1. Completed Activities

- Training

DATE	TYPE OF TRAINING	STAFF CATEGORIES
06/11/2024	UENR Wellness wave	
16/12/2024	Technical staff at works and physical development	All staff
November 2024	Orientation for National Service Personnel	Senior staff
21-23/ 01/2025	Orientation/ Training for Deans, Heads of Departments and Center Heads	National Service Personnel
30/01/2025	Training for Works and Physical Development Directorate	Senior Members and Senior Staff (both Teaching And Non-Teaching
26-28/ 03/2025	Enhancing knowledge, skills and policy awareness	Senior Members and Senior Staff (both Teaching And Non-Teaching
05/09/2025	Exit Seminar	National Service Personnel
23/09/2025	Training for all Junior Staff	Junior Staff

24-26/09/2025	Orientation/ Training for Deans, Heads of Departments and Center Heads	Senior Members

i. 4th Emergency Meeting, 11th,12th and 13th Regular Meeting of the Scholarships and Staff Development Committee

2. Ongoing Activities

- » Upcoming Training for Contract Staff (Senior Staff Category)
- » Student internship placement
- » Upcoming 14th Regular Scholarships and Staff Development Committee Meeting

3.3 Major Activities over the Past Year Under the Senior Members Section

Completed Activities

- » 17th Emergency UAPC
- » 18th Emergency UAPC
- » 19th Emergency UAPC
- » 20th Emergency UAPC
- » 21st Emergency UAPC
- » 22nd Emergency UAPC
- » 23rd Emergency UAPC
- » 35th UAPC Regular Meeting
- » 36th UAPC Regular Meeting
- » 37th UAPC Regular Meeting
- » 24th Regular AAPC Meeting
- » 25th Regular AAPC Meeting
- » 26th Regular AAPC Meeting

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Promotions/Upgrades

S/N	Teaching	Number/No.
1.	Full Professor	2 (Waiting for Approval from the University Council)
2.	Associate Professor	5 (Waiting for Approval from the University Council)
3.	Senior Lecturer/Equivalent	24
4.	Lecturer	3

S/N	Non-Teaching	Number/No.
1.	Deputy Registrar/Equivalent	1 (Waiting for Approval from the University Council)

2.	Senior Assistant Registrar/ Equivalent	6
3.	Junior Assistant Registrar/ Equivalent	16

RETIREMENTS

S/N	Teaching	NUMBER/NO.
1.	Permanent	3

RESIGNATIONS

S/N	Teaching	NUMBER/NO.
1.	Permanent	3

3.4 Ongoing Activities under Senior Members Section

1. 24th Emergency UAPC Meeting
2. 38th Regular UAPC Meeting

3.5 Major Activities over the Past Year at the HRIRMS Section

1. **Completed Activities**

Development of the following systems and databases:

- File Tracker System
- Leave Database of Staff
- Letters Management System
- File Requisition Form of Staff
- Work Tracker Database
- New Filing System
- Performance Appraisal Sheet (Database)
- Database for Update of Records and Data Analysis

2. Ongoing Activities

Enhancement of the following databases and systems:

- Monthly Validation of Staff
- Leave Schedule of Staff
- Filing of Letters (Personal & General)
- Update of Records and Data Analysis of Staff
- Receiving of Letters

4.0 OTHER ACTIVITIES UNDER HRD

4.1 WORKSHOPS, CONFERENCES AND SEMINARS ATTENDED

STAFF	WORKSHOPS/ CONFERENCES /SEMINARS	DATE
Mr. Hayford Asare	» CIHRM '25 Conference at Alisa Hotel, Accra\ » Training for Deans/Directors and Heads of Departments » Administrative Professionals Summit 2025.	18th - 19th June, 2025
Mr. Charles Kojo Aidoo	» Training for Deans/Directors and Heads of Departments » Expanded National Executive Committee of GAUA on Understanding emerging issues in Higher Education	24th – 26th September, 2025
Ms. Juliet Assumeng Benewaa	» Training for Deans/Directors and Heads of Departments	24th – 26th September, 2025
Ms. Cecilia Kubio		
Mr. Clement Gyamfi	» Training for Deans/Directors and Heads of Departments » International Conference on Energy and Engineering (ICEE' 25) » Administrative Professionals Summit 2025.	24th – 26th September, 2025 1st – 3rd October, 2025 9th – 10th October, 2025
Ms. Kate Afram	» Training for Deans/Directors and Heads of Departments » International Conference on Energy and Engineering (ICEE' 25) » Workshop on staff Training to effectively implement TAGDev 2.0 Programme » Administrative Professionals Summit 2025.	24th – 26th September, 2025 1st – 3rd October, 2025 8th – 9th October, 2025 9th – 10th October, 2025

Priscilla Ama Esaa Owusu-Ansah, CA	● Administrative Professional Summit ● Supporting the Supply Chain: What Every Administrative Professional Should Know ● Managing Your Records and Information Efficiently ● Staff Training and Development Programme ● Microsoft Certified Trainers Summit	9th October, 2025 21st June, 2025 30th August, 2025 26th - 27th March, 2025 9th - 10th September, 2025 26th - 27th September, 2025
Mr. Richmond Nketiah Sakyi	» Staff Training and Development Programme » Administrative Professional Summit	9th - 10th September, 2025 9th October, 2025
Ms. Sarah Gyamfi	» Staff Training and Development Programme » Administrative Professional Summit	9th - 10th September, 2025 9th October, 2025
Ms. Edel Nana Kuruwaa Adjei	» Staff Training and Development Programme » Administrative Professional Summit	9th - 10th September, 2025 9th October, 2025
Mr. Kenneth Boafo	» Staff Training and Development Programme » Administrative Professional Summit	9th - 10th September, 2025 9th October, 2025
Mr. Philip Agyei Boadu	» Driving institutional excellence through energy efficiency » Staff Training and Development Programme » Administrative Professional Summit	22nd August, 2025 9th - 10th September, 2025 9th October, 2025
Ms. Ellen Otchway	» Administrative Professional Summit	9th October, 2025

5.0 CHALLENGES

The Division faces some challenges that affect the effectiveness of its operations including the following;

1. High Workload:

The Division handles a wide range of critical HR functions including staff data management, validation, leave processing, and record-keeping for all University staff. The volume of work has increased significantly with the continuous expansion of the University and the growing number of staff. The current staffing strength is therefore inadequate to match the workload, resulting in pressure on the existing team and delays in some processes.

2. Inadequate Logistics and Equipment:

The Division requires improved logistics and adequate equipment to enhance efficiency. Digital resources, and essential working tools such as high-capacity scanners, computers, storage devices are lacking.

3. Lack of Office Space

The Division does not have an office space of its own but a shared office of about 82sq ft with other offices. This undermines the confidentiality aspect of HR's work. Some HR staff do not have a sitting place.

Addressing these challenges will greatly improve productivity, data accuracy, and the timely delivery of HR services across the University.

6.0 FUTURE PLANS OF THE DIVISION

In line with the University's vision to strengthen institutional efficiency through digital transformation and data-driven decision-making, the Human Resources Division seeks to implement the following strategic initiatives over the next few years:

6.1 Full Digitization of Staff Records

The Division plans to complete the digitization of all staff personal files and integrate them into a secure, centralized electronic document management system. This will enhance data security, accessibility, and ease of retrieval, while reducing dependence on hard copy records.

6.2 Automation of HR Processes

To improve efficiency, the Division aims to develop and deploy automated systems for staff validation, leave management, and data updates. The integration of workflow automation will minimize manual processes, ensure accuracy, and reduce turnaround time in HR transactions.

6.3 Implementation of a Human Resource Information System (HRIS)

The Division intends to collaborate with the ICT Directorate to roll out a comprehensive HRIS that will serve as a one-stop platform for staff data management, analytics, and reporting. This system

will allow management to generate real-time HR insights for strategic decision-making.

6.4 Improvement of Data Analytics Capabilities
The Division will enhance its data analysis and reporting tools to produce more detailed HR analytics on trends such as staff attrition, recruitment, gender distribution, among others. These insights will support evidence-based management decisions.

6.5 Capacity Building and Continuous Training
To keep pace with technological advancements, staff within the Division will undergo regular training in data management, HR systems, and digital record-keeping. This will ensure operational competence and readiness to manage modern HR technologies.

6.6 Enhancement of Records Management Infrastructure
The Division will advocate for improved workspace and logistics, including modern scanners, filing cabinets, and secure data storage devices. Adequate resources will be essential to sustain a hybrid (digital and physical) records management system.

6.7 Development of an Archival and Retention Policy
The Division plans to draft and implement a comprehensive Archival and Retention Policy to guide the storage, maintenance, and disposal of HR records. This will promote compliance with best practices and institutional standards.

6.8 Collaboration and Data Sharing Integration
The Division will strengthen collaboration with other departments, particularly the Finance Directorate, ICT Directorate, and University Health Services Directorate to ensure smooth data exchange, system interoperability, and real-time access to relevant staff information.

6.8 Split the Junior and Senior Staff Department into two (2);
i. Senior Staff Section and
ii. Junior Staff Section.

GENERAL ADMINISTRATION DIVISION

GENERAL ADMINISTRATION DIVISION

1.0 Introduction

The General Administration Division is one of the Divisions under the Registrar's Office. The overall objective of the Division is to serve as the central nervous system and operational backbone of the University. The Division currently has One (1) Department namely the Security Services Department, Two (2) Sections namely Consular Services Section, Internal and External Services Section and One (1) Unit namely the Transport Unit. The Division also Manages the affairs of the University reception. The internal and external services unit is responsible for overseeing the administrative duties at the Work and Physical Development Directorate under the leadership of the Director. The Consular services Section handles issues such as issuing of introductory letters for Visas to High Commissions/Embassies. The Transport Unit's objective is to provide a world class, customer focus transport services to the University.

a) Security Service Department

The Security Service Department (SSD) continues to ensure the safety and security of all staff, students, and visitors across the University's campuses. In line with its mandate, the Department has strengthened its administrative structure, improved coordination between campuses, and promoted the use of modern security practices and technology. The year under review witnessed significant progress in both operations and administration, despite challenges related to logistics and manpower. The focus for 2025 was on enhancing communication efficiency, strengthening staff welfare support systems, and fostering professionalism and teamwork among all categories of security personnel. These efforts have contributed significantly to maintaining a safer and more coordinated working environment within the institution.

The Department now has Eighty-six (86) personnel to carry out its mandate of protecting lives and properties and providing technical advice to management regarding the safety and security on campus. These are made up of nineteen (19) Senior Staff, thirty-nine (39) permanent Junior staff and twenty-eight (28) contract staff.

b) Transport Unit

The Transport Unit exists to serve the various groups (Staff Members and Students) in the University. The Unit provide a world class, customer focused Transport Services to the University. The Unit has Fourteen (14) drivers to carry out its operations.

2.0 STAFF

The Division has Twelve (12) Staff comprising Six (6) Senior Members and Six (6) Senior Staff.

NAME	RANK	DIVISION /SECTION/ UNIT
Prince Awuah	Snr. Asst. Registrar	Ag. Head, General Admnistration Division
Abdulai Zakaria	Snr. Asst. Registrar	Head, Security Services Department
Osei Owusu-Ansah	Asst. Registrar	Head of Administration and Operations, Security Services Department

Ebenezertetteh Larnor	Transport Engineer	Head, Transport Unit
Dorothy Agyenim-Boateng	Asst. Registrar	Head, Consular Services Department
Akpene Ame-Kwadzo	Asst. Registrar	Head, Internal and External Services Department (Wpdd)

Senior Staff

Name	Rank	Division /Section/ Unit
Vida Avasong	Principal Administrative Assistant	Internal And External Services Department (Wpdd)
Lydia Yiviel Kuusoyir	Principal Administrative Assistant	General Administration Division
Cecilia Antwiwaa	Principal Administrative Assistant	Security Services Dept.
Daniel Otabil Koomson	Snr. Assistant Transport Officer	Transport Unit
Gilate Gbaal	Snr. Administrative Assistant	Consular Services Department
Georgina Ahuvor	Snr. Administrative Assistant	University Reception

33. Major Activities over the past year
Over the past year, the Division undertook the following activities:

a) Completed Activities

- **Communication Enhancement (Walkie-Talkie Project):**

To address communication challenges and improve coordination during operations, the Department received a donation of 20 walkie-talkies from UENR SRC and deployed them across various duty posts. Personnel were subsequently trained on the proper use, maintenance, and communication protocols associated with the devices. This initiative has significantly improved real-time information flow and response efficiency during emergencies and routine operations.

- **Uniform and Equipment Distribution:**

Facilitated the distribution of new uniforms ("T" shirts) to improve professional appearance and staff morale.

- **End-of-Year Welfare Engagement**

Successfully organized an end-of-year welfare engagement to review the Department's achievements, share feedback, and strengthen unity among security staff.

- The General Administration Division has been servicing the Statutory and Adhoc Committees.
- The General Administration Division has processed Vehicle Maintenance, Off-Campus and Owner Occupier allowances for staff for the 2024/2025 Academic year.

- Processing of accident free incentives for drivers for the 2024/2025 Academic year.
- Booking of venue (Council chamber) for meetings.

- **Acquisition of Vehicles**

The Transport Unit has been able to acquired three (3) new vehicles.

b) Ongoing Activities

- Digital Staff Records System:
- Development of a digital welfare and attendance database to improve record-keeping accuracy and enhance transparency.
- Welfare Fund Strengthening:
- Expansion of the welfare fund to ensure consistent support for staff welfare interventions.
- Capacity Building and Training:
- Ongoing collaboration with the Training and Development Unit to organize refresher courses in ethics, discipline, and incident management.
- Seeking for a standard workshop to sign Service agreement with around Sunyani at the Transport Unit.

4. CONFERENCES/SEMINARS/WORKSHOPS

» The Security Department conducted a Leadership and Report Presentation Workshop for the Officers rank in January, 2025.
» The Security Department organised weekly Professional Conduct Seminars for all staff, focusing on communication, teamwork, and personal development.
» The Ag. Head, General Administration attended the 2nd International Social Science and Humanities Conference in Brussels, Belgium (6th - 8th June, 2025).
» The Head of Administration and Operations, Security Services Department participated in the Microsoft west Africa Tech summit held in Accra (September 2025).
» The Head of Administration and Operations, Security Services Department participated in the Network of Administrative Professionals Conference held in Accra (October 2025).

5. CHALLENGES

» Inadequate logistics and limited transportation for staff monitoring and patrols for the Security Department.
» Occasional network interference affecting radio (walkie-talkie) communication coverage in remote posts for the Security Department.
» Limited CCTV surveillance for campus watch.
» Limited car parks.
» Inadequate Fleet and aging vehicles at the Transport Unit.
» Lack of a qualified professional staff to manage the University reception.
» Constant moving of Chairs at the Council Chamber for other programmes.

6. FUTURE PLANS OF THE DEPARTMENT

» Expand the walkie-talkie communication network to cover all major posts and introduce

a centralized radio control unit for enhanced coordination at the Security Department.

» ully implement the digital welfare management system by mid-2026 at the Security Department.
» Strengthen partnerships with health, financial, and insurance institutions to enhance welfare support for staff at the Security Department.
» Organize a Welfare Week Celebration to recognize and motivate outstanding personnel at the Security Department.
» Liaise with management to expand CCTV surveillance at all places on campus at the Security Department.
» Liaise with the Security and Safety Committee to complete Security policy document.
» Fleet expansion and modernization at the Transport Unit.
» To set up a modern workshop with diagnostic tools and trained technicians at the Transport Unit.
» The General Administration Division is to liaise with the Registrar to develop a timetable for Council sub-Committee meetings.
» The General Administration Division intends to introduce visitors tags at the reception.

ACADEMIC AND STUDENTS' AFFAIRS DIVISION

ACADEMIC AND STUDENTS' AFFAIRS DIVISION

Introduction

The Academic and Students' Affairs Division (hereinafter referred to as " the Division") is one of the divisions under the Registrar's Office. The overall objective of the Division is to ensure that prospective and current students receive prompt assistance in terms of academic and students' affairs services. The Division currently has One (1) Department namely the Examinations Department and Two (2) Sections, namely, Admissions Section and Students Records and Information Systems Section. The Examinations Department coordinates examinations and examination-related matters. The Admissions Section coordinates all admissions processes in the University. The Students Records and Information Systems Section collates and maintains students records and information.

Staff

The Division currently has 10 (10) Staff comprising four (6) Senior Members and five (4) Senior Staff

Senior Members

Mr. Elijah Ofori-Badu, Esq., CHRMP -	Senior Assistant Registrar/Ag. Head
Mr. Prince Awuah, ACIHRM	Senior Assistant Registrar (Examinations)
Mr. David Abeam Takyi, ChPA	Senior Assistant Registrar (Admissions)
Ms. Abigail Codjoe	Assistant Registrar (Students Records and Information Systems)
Mr. Akwasi Hinneh Boateng	Junior Assistant Registrar
Ms. Jennifer Naa Jaaga	Junior Assistant Registrar

Senior Staff

Ms. Ruth Dufie Amoah	Principal Administrative Assistant
Mr. Emmanuel Kombiok	Principal Administrative Assistant
Mr. Eugene Boakye Boateng	Senior Administrative Assistant
Ms. Beatrice Aidoo	Senior Administrative Assistant

Staff Changes

Mr. Prince Awuah, Senior Assistant Registrar was transferred from the Graduate School to the Division (Examinations). Again, he has been given additional responsibility as Acting Head of the General Administration Division with effect from September 2025.
Mr. Akwasi Boateng Hinneh and Ms. Jennifer Naa Jaaga were appointed to the rank of Junior Assistant Registrar

Major Activities over the past year

Over the past year, the Division undertook the following activities:

- Processed and offered admissions for applicants for the 2024/2025 Academic Year.
- Verification of WASSCE results for students who enrolled in the 2024/2025 Academic Year.
- Processing of admissions for applicants for the ensuing 2025/2026 Academic.

- Collation of list of prospective candidates to the National Service Authority for the 2025/2026 Service Year.
- Coordinated the meetings of the Committee to Investigate Examination Malpractices which resulted in the expulsion of a student and suspension of some students for one year and award of grade x for some courses for been involved in examination malpractices during the First Semester of the 2024/2025 Academic Year as well as submitted the Committee's Report for the Second Semester of the 2024/2025 Academic Year for consideration.
- Teamed up with the Office of the Dean of Students to organize orientation for fresh students.
- Collaborated with other internal stakeholders to organize Matriculation for all fresh students.
- Offered secretarial duties to the Academic Board and some of the Committees of the Academic Board of the University.
- In collaboration with other internal stakeholders, participated in the school fees fixing.
- Collated and submitted data on first year students to the Students Loan Trust Fund which led to the reimbursement of fees to the students as part of the stress free or no fees policy of the government.

Conferences/Seminars/Workshops

- **The staff again participated in a Study Tour Workshop for Members of the** Registrar's Offices Welfare Scheme (ROWS) between 23rd and 27th April, 2025 at University of Ghana, Legon-Accra.
- The staff of the Division attended a Department Presentation Series on "Driving Institutional Excellence Through Energy Efficiency" at RCEES Conference Room, UENR, on 22nd August, 2025
- The Acting Head of the Division attended an Orientation and Training Workshop for Newly Appointed and Existing Deans, Directors, Head of Departments, and Center Heads on 24th - 26th September, 2025.
- The Ag. Head of the Division was served as a Resource Person to deliver a presentation on the topic, "The Academic and Students' Affairs Division: Roles and Collaboration with Deans and Heads on 24th - 26th September, 2025 at RCEES Conference Room
- The Acting Head of the Division participated in Forum for African Women Educationalists (FAWE) Training of Trainers (ToT) on Extended Orientation Programme (EOP) on 6th -8th October, 2025, at Sunlodge Hotel, Tesano-Accra.

Future plans

The Division intends to:

- Liaise with the Information Technology Directorate to design a Portal for the issuance of electronic copy of transcripts, introductory/attestation letters.

LEGAL OFFICE DIVISION

LEGAL OFFICE

Introduction

The University of Energy and Natural Resources (UENR) is a publicly funded national institution established by an Act of Parliament, Act 830 of 2011, on December 31, 2011. The University's core mandate is to serve as a centre of excellence in providing sustainable education and research in the fields of energy, natural resources, and environmental sciences. UENR is dedicated to training highly skilled professionals and fostering innovation to address Ghana's and Africa's energy and natural resource challenges. Through interdisciplinary education, practical research, and community engagement, the University promotes sustainable development, environmental stewardship, and responsible resource management for the advancement of society.

2.0 Directorate/Division and Staff

The Legal Services Department, operating under the Registrar's Office, was established to provide comprehensive legal services and support to the University in the fulfillment of its mission and objectives. Statute 77(4) outlines the functions of the Legal Services Department:

a. Provide legal advice and guidance;
b. Developing and implementing mechanisms for internal dispute resolution;
c. Prosecution of cases in courts and litigation management;
d. Documentation, preparation and drafting of legal documents;
e. Ensuring compliance with established Acts of Parliament, statutes, general rules and regulations and relevant laws of the Republic of Ghana;
f. Other related matters as shall be determined by the Council and or the Vice-Chancellor.

The Legal Department's core functions include a wide range of activities essential to the effective operation of the University. The Department provided legal and administrative support in several key areas.

The Legal Office served as a member and secretary to various statutory and ad hoc committees, including Investigation Committees constituted to look into allegations made against a member of staff and Junior Members. Most of these committees have successfully completed their assignments and submitted their reports to Management for consideration and further action.

In addition, the Department reviewed and vetted numerous Memoranda of Understanding (MOUs) and Agreements to ensure they conformed to legal standards, safeguarded the University's interests, and minimized potential legal liabilities.

The Office currently has three (3) permanent staff, one (1) contract paralegal, and one (1) national service person. The permanent staff are:

» Barima-Agyekum Hinneh, Esq – Head of Legal Services Department
» Joy Sarkodie-Addo, Esq – Head, Intellectual Property and Insurance Section
» Bismark Oduro, Esq – Paralegal
» Ms. Linda Boadu – Senior Administrative Assistant

The national service person, Ms. Gloria Kyeremaa, provides administrative support to the

department.

3.0 Major Activities over the Past Year

Below is the schedule of court cases handled during the period under review:

S/N	CASE TITLE	COURT
1.	Savana Plantation v. Ghana Cocoa Board, University of Energy and Natural Resources, and Ghana Exim Bank	ITamale High Court
2.	Prof. Eric Ofosu Antwi v. The University of Energy and Natural Resources, The University Council, and Prof. Emmanuel Opuni Frimpong	The plaintiff to file an appeal at the Court of Appeal, Kumasi.
3.	Giffred Ventures v. The University of Energy and Natural Resources	The plaintiff is to file an appeal at the Court of Appeal, Kumasi.
4.	Kwaku Obeng Mireku v. University of Energy and Natural Resources The Registrar, UENR	High Court, Sunyani.
5.	Dr. Gilbert Kwadwo Mensah v. 1. University of Energy and Natural Resources 2. Prof Elvis Asare-Bediako 3. Daniel Kingsley Binful	High Court, Sunyani.

The Department assisted the External Solicitor to represent the University in court to protect its interests in the case of Savana Plantation v. UENR and Two Others. The office prosecuted the rest of the cases above in court.

The Department was also able to withdraw the University as a party from a case at Fiapre Circuit Court.

4.0 Other Activities

The Legal Services Department Staff attended a training workshop organized by the Human Resources Division of the University**.**

5.0 Challenges

The Office is currently confronted with the following challenges:

- Inadequate desks and chairs, which affect staff comfort and productivity.
- Insufficient cabinets for file storage make record-keeping and document retrieval difficult.

- Lack of suitable office space that ensures privacy and confidentiality, which are essential for legal work.
- Limited access to legal resources, such as textbooks, law reports, and reference materials, which are necessary for effective legal research and advisory services.

6.0 Planned Activities

- Training of Staff:

Organise training programmes for the staff of the Division to enhance their skills and knowledge, thereby improving overall work efficiency and output.

- **Seminars on Legal Issues:**

Organise seminars and workshops on relevant legal issues for members of the University community to promote awareness, compliance, and understanding of legal and regulatory matters.

SPORTS AND RECREATIONAL DIRECTORATE

SPORTS AND RECREATION DIRECTORATE

Introduction

The Sports and Recreation Directorate serves as the central authority for the development, coordination, and management of all sports and recreational activities within and outside the University. Guided by its mandate in the University Statutes, the Directorate oversees the organization of sporting events and clinics, the development of sports initiatives, and the preparation of teams for competitions. It also fosters partnerships with external sports organisations, represents the University on relevant sporting bodies, and provides advisory support to the Academic Board on sports-related academic credits. For over a decade, the Directorate has diligently fulfilled its mandate, promoting holistic development, wellness, and excellence in sports participation and management across the University community.

2.0 Directorate's Staff

The Directorate currently has 6 staff members, which consist of technical staff, an Administrator, and a Volunteer.

The table below lists the staff members along with their respective positions.

Technical Staff

SN	NAME	POSITION
1	Mr. Ebenezer K. Armoh (PSM 276)	Ag. Director
2	Mr. Simon Bosomotwe (PS 462)	Principal Sports Coach
3	Mr. David Aryeetey (PS 755)	Snr. Sports Coach in charge of the Dormaa Campus
4.	Mr. Enoch Adofo Mireku(PS 835)	Snr. Sports Coach

Administrative Staff

5	Grace Baaba Badu- Mensah (PS 864))	Snr. Administrative Assistant

Volunteer

6	Mr. Frank Yeboah	Sports volunteer

3.0 Major Activities Over the Past Year

1. Completed Activities

- Main GUSA Games (Ghana University Sports Association) in Football, volleyball, and athletics
- Union/Staff Games

2. Ongoing Activities

i. Inter-University cross-country and games
ii. An Astroturf football project by the Middle Belt Development Authority (MBDA).
iii. Scouting for athletes for the 2025/2026 academic year

4.0 Workshop/Conferences/Seminars

NO.	Conference	Workshop
Ebenezer K. Armoh	1. Sthisd. International Conference: Advancing Sustainable Futures through Environment, Health, ICT, and Food Security: The Role of Emerging Scientist-2025 2. ACUSAfrica Conference: Advancing Critical University Studies across Africa. From 16th to 18th October, 2024, at Kampala, Uganda. 3. Leadership, Emotional Intelligence, and AI Integration by Ghana Association of University Administrators- 2024	Sports Psychology Training Workshop with the faculty of Psychology and Sports Science, Benfield University in Collaboration with National Sports Authority.
David Aryeteey		IHF-Coaching and Officiating in Handball

5.0 Challenges

The following are some of the challenges the Directorate is currently facing:

i. Office space for staff
ii. Limited Budget for the directorate's sporting activities
iii. Inadequate logistics, such as photocopies, printers, scanners, etc.
iv. Inadequate facilities

6.0 Future Plans of the Directorate

- Construction of Sports facilities (Athletic Oval, gymnasium, Handball, Basketball, and Tennis court) for both Sunyani and Dormaa Campuses.
- To participate in international games, e.g., West Africa University Games (WAUG), Federation of African University Sports.
- Using Traditional Festivals for sports talent scouting
- Commencing staff programme for corporate bodies in the community (corporate games).
- Collaboration with internal (unions) and external (relevant stakeholders) bodies for support towards sports infrastructural development

UNIVERSITY HEALTH SERVICES DIRECTORATE

UNIVERSITY HEALTH SERVICES DIRECTORATE

Introduction

This is a comprehensive report from the University Health Services Directorate as part of the Vice-Chancellors' Report for the 2024/2025 academic year per the requirements of the University Relations Office. It covers the period from August, 2024 to July, 2025 including staff statistics, activities covered over the period, challenges and some strategic recommendations.

We successfully navigated increasing service demands while maintaining our unwavering commitment to quality, safety, and innovation.

This report details our operational performance, quality management initiatives, staff development, challenges and strategies that can be employed to mitigate such challenges.

2.0 Overview of the University Health Services Directorate

The University Health Services Directorate (UHSD) is one of the strategic directorates that reports through the Registrar to the Vice-Chancellor on all health-related issues within the University. The Directorate has the mandate to deliver health services to members, staff and their dependents of the University and adjoining communities.

The UHSD is currently managed by a five (5) member Management Committee headed by the Director of UHSD, including the Ag. Head of Pharmaceutical Services Unit, Ag. Head of Laboratory Services Unit, Ag. Nurse Manager and the Clinic Administrator as Secretary who is supported by a Junior Assistant Registrar.

The Clinic under the Health Services Directorate (HSD) is a member of the Ghana Association of Quasi-Government Health Institutions (GAQHI) and licensed as a Primary Health Care (PHC) Facility by the Health Facility Regulatory Agency (HeFRA) of Ghana with National Health Insurance accreditation. We also, work under the regulations and permit of the Environmental Protection Agency. Our clientele includes; Members (Senior and Junior), Staff of the University and their Dependents, Retirees/Pensioners, and the General Public.

The UHSD has made some remarkable improvement over the years in some Major Activities while others are in progress.

3.0 Staff at the Directorate

The Directorate has a total of Seventy-One (71) Staff, twenty-seven (27) of whom are permanent/ contract staff of UENR whiles the remining forty-four (44) are on secondment from Ghana Health Service.

Out of these, sixty-nine (69) staff are currently at post whiles Two (2) seconded staff have been granted study leave by the Ghana Health Services. Inclusively we have four (4) staff manning the Dormaa Health post the old Campus.

The table below indicates the statistics of staff.

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PERMANENT STAFF

s/n	Name	Designation	Qualification
1	Dr. (Med.) Solomon Fofie	Director-UHSD	Master of Public Health. Bachelor of Medicine, Bachelor of Surgery (MB., ChB)
2	Mrs. Irene Asare Yeboah, ChPA	Assistant Registrar (Clinic Administrator)	Associate Member, Chattered Institute of Administrators and Management Consultants-Ghana (CIAMC) M.Ed. Educational Administration and Management BEd. English and Social Studies (JHS Option Basic Education) Teachers Cert "A"
3	Mr. Clifford Asomah Kyere, ChPA, CMC	Junior Assistant Registrar	Full Member, Chattered Institute of Administrators and Management Consultants-Ghana (CIAMC) MBA-Strategic Management BA-Geography & Resource Development with Linguistics
4	Ms. Betty Eshun Kwao	Senior Medical Records Technician	Master of Public Health BSc. Public Health & Applied Sciences-Health Education Certificate-Health Assistant, Clinical
5	Ms. Jessica Awuah Pokuah	Senior Medical Records Technician	Master of Public Health BSc. Human Biology
6	Ms. Patricia Danquah	Senior Accounting Assistant	BSc. Administration-Accounting
7	Mr. Elvis Kyere	Senior Medical Records Assistantt	BA. Integrated Development Studies

8	Mr. Prince Yeboah Amankwah	Senior Accounting Assistant	B.Ed. Accounting
9	Ms. Doris Gyamea	Senior Accounting Assistantt	Bachelor of Commerce
10	Mr. Tabuaa Sandra	Medical Records Assistant	HND-Marketing
11	Mr. Godfred Degraft Tandoh	Administrative Assistant	HND. Information and Communication Technology
12	Mr. Dengbey Samuel Senalor	Stores Superintendent	HND-Purchasing and Supply Chain Management
13	Ms. Margaret Eshun	Head Conservancy Labourer (Cleaner)	MSLC
14	Ms. Cecilia Agyago	Cleaner	SHS
15	Ms. Dora Efiah Owusu Korang	Cleaner	Certificate
16	Mr. Emmanuel Amankwah	Cleaner (Laundry)	SHS

b.	**Clinicians**		
s/n	Name	Designation	Qualification
1	Ms. Dora Efiah Owusu Korang	Head Conservancy Labourer (Cleaner)	Staff Nurse
2	Mr. Emmanuel Amankwah	Cleaner	Staff Nurse
3	Mr. Michael Awuah	Cleaner	Staff Nurse
4	Mr. Asamoah Obed	Cleaner (Laundry)	Staff Nurse

c.	Pharmaceutical Services Unit		
s/n	Name	Designation	Qualification
1	Dr. (Pharm.) Mrs. Augusta Oppong	Pharmacist-Ag. Head of Pharmaceutical Services Unit	BSc. Botany and Zoology, BPharm, PharmD Master of Public Administration Fellow in Infectious Diseases Specialist in Clinical Pharmacy (MWAPCP)
2	Mr. Prince Wiafe	Dispensary Technician	HND Dispensary Technician
3	Mr. Vandyke Amoah	Dispensary Technician	HND Dispensary Technician

d.	Laboratory Services Unit		
s/n	Name	Designation	Qualification
1	Mr. Kingsley Asante		Enrolled Nurse
2	Mr. Patrick Donkor		Community Health Nurse
3	Mr. Bileila Yaw		Enrolled Nurse

e.	Nursing Unit (Ward and OPD)		
s/n	Name	Designation	Qualification
1	Ms. Lois Azupwah	Chief Nursing Officer - Ag. Nurse Manager	Master of Public Health BSc. Nursing Diploma-Nursing Executive Professional Certificate in Health Systems Management, Leadership and Governance
2	Ms. Ansuaa Gloria	Senior Nursing Officer	BSc. Nursing /Diploma in Nursing
3	Ms. Comfort Anima Gyedua	Senior Nursing Officer	BSc. Nursing
4	Ms. Pearl Prika	Senior Nursing Officer	BSc. Nursing
5	Ms. Gloria Ansuaa	Senior Nursing Officer	BSc. Nursing
6	Mr. Adomako Simon Mensah	Senior Nursing Officer-Ag. Ward In-Charge	BSc. Nursing
7	Ms. Vivian Danquah	Nursing Officer (Dormaa Campus)	Nursing Officer (Dormaa Campus) BSc. Nursing (KNUST-Kumasi) Diploma in General Nursing Certificate of Registration (Registered General Nurse (Nursing and Midwifery Council)
8	Ms. Adu Asare Esther	Nursing Officer	Diploma in Nursing
9	Ms. Rahmat Mahama	Senior Staff Nurse	BSc. Nursing Registered General Nurse
10	Mr. Asamoah Obed	Senior Staff Nurse	BSc. Nursing Registered General Nurse
11	Mr. Samuel Mensah	Senior Staff Nurse	BSc. Nursing Registered General Nurse

12	Ms. Asare Yvonne Boatemaa	Senior Staff Nurse	BSc. Nursing Registered General Nurse
13	Ms. Juliet Takyi Agyeiwaa	Senior Staff Nurse	Registered General Nurse
14	Ms. Lawrencia Takyiwaa	Senior Staff Nurse (Dormaa Campus)	Registered General Nurse
15	Mr. Samuel Owusu	Senior Staff Nurse (Dormaa Campus)	Registered General Nurse
16	Ms. Abena Boatemaa Joyce	Staff Nurse	Registered General Nurse
17	Mr. Yeboa Vincent	Staff Nurse	Registered General Nurse
18	Ms. Agyeman Yeboah Hellen	Staff Nurse	Registered General Nurse
19	Ms. Gidi Georgina	Principal Enrolled Nurse	Registered Nurse Assistant Clinical
20	Ms. Nketia Abigail Yeboah	Principal Enrolled Nurse	Registered Nurse Assistant Clinical
21	Ms. Ankomah-Botwe Grace	Senior Enrolled Nurse	Registered Nurse Assistant Clinical
22	Ms. Acheampong Twumwaa Barbara	Senior Enrolled Nurse	Registered Nurse Assistant Clinical
23	Ms. Ennor Elsiena	Senior Enrolled Nurse	Registered Nurse Assistant Clinical
24	Ms. Serwaa Susana	Senior Enrolled Nurse	Registered Nurse Assistant Clinical
25	Ms. Deborah Oppong Manu	Senior Enrolled Nurse	Registered Nurse Assistant Clinical
26	Ms. Siaw Joycelyn	Enrolled Nurse	Registered Nurse Assistant Clinical
27	Mr. Appiah Emmanuel	Enrolled Nurse	Registered Nurse Assistant Clinical
28	Ms. Boatemaa Josephine	Enrolled Nurse	Registered Nurse Assistant Clinical
29	Ms. Abigail Gyimah	Enrolled Nurse	Registered Nurse Assistant Clinical
30	Ms. Priscila Osei Kyeretwie	Enrolled Nurse	Registered Nurse Assistant Clinical

31	Ms. Lucy Achiaa	Enrolled Nurse	Registered Nurse Assistant Clinical
32	Mr. Andrews Kumah	Enrolled Nurse	Registered Nurse Assistant Clinical
33	Mr. Collins Appiah	Enrolled Nurse (Dormaa Campus)	Registered Nurse Assistant Clinical
f.	**Public and Child Health Section**		
1	Ms. Mary Okyere	Nursing Officer (Public Health)	BSc. Ph/Diploma in Community Nursing /Certificate in Community Nursing
2	Ms. Lawrencia Lartey	Nursing Officer (Public Health)	BSc. Public Health Nursing Diploma in Community Health in Nursing
3	Ms. Eunice Yeboah	Principal Community Nurse	Nurse Assistant Preventive Certificate
4	Mr. Barnie Emmanuel	Community Health Nurse	Nurse Assistant Preventive
5	Ms. Hilda Tutuwaa Yeboah	Technical Officer-Disease Control	Diploma in Disease Control
g.	Antenatal Care Section		
s/n	Name	Designation	Qualification
1	Mavis Nyarko	Senior Midwifery Officer	Master in Public Health/BSc Ph/BSc. Midwifery//Diploma Midwifery
2	Surayya Saeed	Midwifery Officer	BSc. Midwifery
3	Portia Dede-Manu	Senior Staff Midwife	Diploma in Midwifery
4	Ms. Dabuo Josephine	Senior Staff Midwife	Diploma in Midwifery
5	Ms. Hannah Boahemaa	Senior Staff Midwife	Diploma in Midwifery
6	Ms. Mabel Eseenam Etteh	Senior Staff Midwife	Diploma in Midwifery
7	Josephine Anane	Staff Midwife	Diploma in Midwifery
8	Ernestina Amponsah	Staff Midwife	Diploma in Midwifery

h.	Separated Staff		
s/n	Name	Designation	Reason
1	Mr. Abdul Ganiwu	Laboratory Technologist-Ag. Head of Laboratory Services Unit	Resignation
2	Ms. Ophelia Kissiwaa	Senior Administrative Assistant	Resignation
3	Ms. Yeboah Mary	Staff Midwife	Resignation
4	Ms. Monica Afrah Yeboah	Staff Nurse	Transfer
5	Mr. Awuah Michael	Staff Nurse	Transfer
6	Ms. Gloria Ntim	Senior Enrolled Nurse (Dormaa Campus)	Transfer
7	Ms. Akosua Kusiwaa Manu	Enrolled Nurse	Transfer

Major Activities/Initiatives over the period under review

i. Completed

- Completion of medical examination for first year students in the 2024/2025 academic year.
- Vaccination against the Human Papillomavirus (HPV).
- Conducted cervical cancer screening for student groups.
- Vetted and submitted 4438 National Health insurance claims.
- The ANC and RCH Units refurbishment complete with support from the Alumni.
- Updated data of staff and their registered dependent to enhance easy identification has been secured from the Human resources Division.
- Access to Student personal information has successfully been granted by the I.T Directorate to assist in identifying students who visits the facility.
-

ii. Ongoing Service/Initiatives

- Introduction of Health Information Management System (e-health)
- Introduction of Private Health Insurance (at approval stage)
- In-patient services and General OPD service
- Reproductive and Child Welfare Clinics
- Family Planning Services
- Immunization
- School Health and Education on Monkey Pox (Mpox)
- Home visit
- Counseling and testing (PMTC)
- Palpation and Auscultation
- Physical examination
- TB sample screening

- Malaria control program
- Establishment of Antiretroviral Therapy Clinic to cater for students, staff and members of surrounding communities.
- 24-hour service at Pharmacy and Laboratory Services Units.
- Breast Cancer Screening
- Vetting and Authentication of Medical Refund Claim
- Authentication of medical report submitted by staff and students
- Routine laboratory investigations in haematology and parasitology.
- We provided placements for student interns
- Yet to roll out a free mass NHIS registration for staff and their dependents as approved by management.

5.0 Other activities

i. Workshops - External

» Workshop on Suturing Techniques for Nurses (organized by medical and surgical Institute in collaboration with Nursing and Midwifery Council of Ghana on 8th October, 2025 at In-Service Training Unit Hostel Conference room-Sunyani Teaching Hospital)

» Workshop on Basic life Support for Health Care providers (organized by medical and surgical Institute in collaboration with Nursing and Midwifery Council of Ghana on 20th August, 2025 at In-Service Training Unit Hostel Conference room-Sunyani Teaching Hospital)

» Training for Service Providers on Comprehensive Abortion Care and Family Planning (CAC/FP) and RSLOG Data Management (organized by Sunyani Municipal Health Directorate on 20th November, 2024 at the Municipal Health Directorate Conference Hall)

» Workshop on NHIS Co-payment, claims submission and reporting (organized by the National Insurance Authority at Eusbet Hotel)

» In-House

» There has been an in-house training for staff with internal Resource Persons

» . These includes;

» Infection prevention, emergency medications, triaging, basic life support, choking, bites and stings, ectopic pregnancy, patient assessment, blood transfusion, food poisoning and oxygen administration, waste management, decontamination.

» An internal workshop was organized by the Directorate in collaboration with the Food and Drugs Authority and the Sunyani Municipal Health Directorate on Customer Care in Health Services, Event Based Surveillance and Pharmacovigilance on 30th May, 2025.

» Plans are underway for an in-house workshop on infection prevention and control: the role of the health personnel tentatively in December, 2025.

» Training on standard operating procedure in dispensing

6.0 PATIENT DATA STATISTICS AND DOCUMENTATION

The Directorate is effectively updating outpatient monthly morbidity records, RCH/Public health and nutritional records, ANC data of client to enhanced health delivery. The tables below show the statistical records in the various Units.

MONTH	RGG	ATTEND.	TOTAL	HIV SCREENING		T.B SCREENING		HB <7	SP	TDS2+	MALE INVOLVE
				POS	NEG	POS	NEG				
AUG	4	12	16	0	4	0	16	0	3	2	3
SEPT	2	9	11	0	2	0	11	0	7	1	0
OCT	5	19	24	0	5	0	24	0	8	2	0
NOV	1	16	17	0	1	0	17	0	11	3	0
DEC	1	14	15	0	1	0	15	0	9	2	0
JAN	1	10	11	0	1	0	11	0	6	1	0
FEB	1	16	17	0	1	0	17	0	9	3	0
MAR	3	12	15	0	3	0	15	0	6	3	0
APR	2	12	14	0	2	0	14	0	3	1	0
MAY	4	11	15	0	4	0	15	0	7	4	1
JUN	1	12	13	0	1	0	13	0	7	0	3
JULY	4	13	17	0	0	0	17	0	9	3	1
TOTAL	29	156	185	0	8	0	185	0	25	25	8

6.2 WARD STATISTICS FROM AUGUST 2024 TO JULY 2025. ADMISSIONS, DISCHARGES, REFERRALS AND DEATHS

The general ward is a multipurpose ward as it serves both male and female adult and children and is the only ward in the University Health Service Directorate. We provide adequate quality nursing care to our patients by educating them on their disease condition, enhancing infection prevention and control practices and to promote effective nurse patient relationship.

6.2.1 Males Ward

MONTHS	ADMISSIONS	DISCHARGES	DEATHS	REFEARLS
AUGUST	72	70	0	2
SEPTEMBER	41	39	0	2
OCTOBER	23	22	0	1
NOVEMBER	29	29	0	0
DECEMBER	22	20	0	2
JANUARY	19	19	0	0
FEBRUARY	18	17	0	1

MACH	9	9	0	0
APRIL	11	10	1	0
MAY	8	6	0	2
JUNE	10	10	0	0
JULY	16	16	0	0
TOTAL	278	267	1	10

6.2.3 Children (Males)

MONTHS	ADMISSIONS	DISCHARGES	DEATHS	REFEARLS
AUGUST	10	10	0	0
SEPTEMBER	10	10	0	0
OCTOBER	18	18	0	0
NOVEMBER	22	22	0	0
DECEMBER	17	17	0	0
JANUARY	16	16	0	0
FEBRUARY	27	27	0	0
MACH	26	26	0	0
APRIL	16	16	0	0
MAY	26	26	0	0
JUNE	26	26	0	0
JULY	32	32	0	0
TOTAL	243	243	0	0

6.2.5 Top Conditions

MALES	NUMBER	FEMALES	NUMBER OF CONDITIONS
MALARIA	OF CONDITIONS	MALARIA	195
HPT	237	HPT	46
DIABETES	32	DIABETES	20
	17		172
ENTERRITIS	125	ENTERRITIS	83
PUD	11	PUD	37
RTI	8	RTI	56
UTI	22	UTI	29
ASTHMA	17	ASTHMA	45

SEPSIS	23	SEPSIS	19
TONSILITIS	21	TONSILITIS	56
ASTHMA	17	ASTHMA	29
SEPSIS	23	SEPSIS	45
TONSILITIS	21	TONSILITIS	19

6.3 STATISTICS FROM OPD

In the year under review, the following were the activities performed at the OPD, History taking, checking of vital signs, general consultation, wellness clinic, wound dressing, injections, counselling, health education and health promotion.

6.3.1 Patient Statistics on attendance

Aug.	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Total
1139	775	498	637	434	678	964	1078	1483	1332	1232	1668	11918

6.3.2 Patient Attendance breakdown

Month	Adult		Children under 10 years		Total
	Male	Female	Male	Female	
Aug	496	521	68	54	1139
Sep	290	420	38	27	775
Oct	305	126	32	35	498
Nov	310	270	28	29	637
Dec	287	95	25	27	434
Jan	297	321	34	26	678
Feb	404	502	23	35	964
Mar	451	558	31	38	1078
Apr	596	782	44	61	1483
May	566	686	33	47	1332
Jun	501	656	25	50	1232
Jul	727	848	39	54	1668
Total	5368	6054	401	492	11918

6.3.3 Injections in the period

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Total
Intramuscular	56	55	46	38	59	53	43	58	61	33	40	52	594
Intravenous	30	32	22	29	48	47	39	47	42	28	31	48	443

6. 3.4 Wounds dressing in the period

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Total
Sutured wound	11	8	12	9	14	18	13	9	11	16	14	18	153
others	17	15	23	26	34	26	29	31	15	19	24	32	291
Total	28	23	35	35	48	44	42	40	26	35	38	50	444

6.4 REPRODUCTIVE AND CHILD HEALTH

The RCH provides essential health services, including maternal and child health care, family planning, cold chain and immunization, health promotion and nutrition counseling.

6.4.1 Epi for UENR Clinic from August 2024 To July 2025

ANTIGEN	TARGET	NUMBER VACCINATED	RATE
OPV 1	0	11	0
PENTA 3	0	15	0
RTSS1	0	18	0
RTSS 4	0	12	0
MR2	0	35	0
VITAMIN A 100000 IU	0	27	0
VITAMIN A 200000 IU	0	338	0

6.4.2 Child Welfare Clinic Registrant Nutrition

AGE GROUP	MALE	FEMALE	TOTAL	SEVERE	MODERATE	NORMAL
0-11 months	11	7	18	0	0	18
12-23 months	0	1	1	0	0	1
24-59 months	0	1	1	0	0	1
Total	11	9	20	0	0	20

6.4.3 Child Welfare Clinic Attendance on Nutrition

AGE GROUP	MALE	FEMALE	TOTAL	SEVERE	MODERATE	NORMAL
0-11 months	95	67	162	0	0	162
12-23 months	34	28	62	0	0	62
24-59 months	144	167	311	0	0	311
Total	273	262	535	0	0	535

6.4.4 Child Welfare Clinic Length/ Height

AGE GROUP	MALE	FEMALE	TOTAL	SEVERE	MODERATE	NORMAL
0-11 months	16	9	25	0	0	25
12-23 months	19	9	28	0	0	28
24-59 months	64	67	131	0	0	131
Total	99	85	184	0	0	184

6.4.5 Health Promotion

No. of ICE sessions conducted	460
No. of participant at sessions	6941
NO.OF CHANNELS USED	
1.one on one	134
2.Group meeting	135
VENUE	
1.Home	0
2. OPD	139
3. School	7
4. Others	123
5. RCH(ANC/FP/PNC)	163
TYPE OF SBCC USED	
1. Prints	44

6.4.6 Family Planning

Depo	12	22	34	
Jadelle	0	0	0	
Implanon	2	0	2	
Pills Microlut	1	0	1	
Norigynon	8	2	10	
Condom	1	1	2	
Microgynon	1	1	2	
All emergency	2260	3049	5309	

7.0 CHALLENGES

The Directorate faces some eminent challenges that affect effectiveness of its mandate including;

» Human Resources deficit particularly Clinical Staff. 61.97% of staff at the UHSD are seconded from Ghana Health Service of which they are periodically withdrawn from the facility especially the most experienced, dedicated and hardworking ones which greatly affect service delivery.
» Laboratory space inadequate to enable expansion of testing capacity
» Delays in procurement and supply of medical consumables/drugs and other medical items needed for effective and efficient service delivery.
» Non-availability of security personnel at the clinic which affects the safety and security of staff and patients on admission particularly at night.
» Lack of specialized nurses at the Directorate, i.e. Emergency Nurses, Mental Health Nurses, Pediatric nurses among others.
» Salary of personnel on contract is not encouraging, judging from the workload, risk involved and overtime work.
» We still have a lot of staff, staff relatives and students who have not enrolled unto the National Health Insurance Scheme or have inactive membership. This reduces our revenue generation from insurance claims.

8.0 Way forward

» The Health Service Directorate will continue to liaise with the Human Resources Division to recruit enough nurses especially those in specialized and critical areas when the University obtains financial clearance from Government. However, the directorate will appreciate it, if contract staff are recruited to support the workforce till financial clearance is obtained especially at the pharmacy and Laboratory units. When the university recruits its own staff, we will be able to train and retained them for continuity, efficiency and effective delivery of health care.
» To collaborate with various stakeholders to continually organise suitable training for staff.
» We propose for the procurement of an Automated Biochemistry Analyser to assist in conducting kidney and liver functioning test. This will improve diagnostic efficiency and income generation for the Directorate.
» The Pharmaceutical services unit is making plans to establish a manufacturing section to prepare extemporaneous drugs as well as drug information section.

9.0 Conclusion

The Health Services Directorate is always committed to ensuring the general well-being of community members for efficient work output towards the fulfilment of the vision and mission of the University.

Note: Please note that all Staff names marked with asterisk (*) are staff on secondment from Ghana Health Services.

INTERNAL AUDIT DIRECTORATE

INTERNAL AUDIT DIRECTORATE

Introduction

The Internal Audit Agency Act of 2003 (Act 658) section 16(i) mandates every public institution to set up their own internal audit units. The University of Energy and Natural Resources Act 830 0f 2011 section 30(i) an (2) also makes it compulsory for the establishment of an Internal Audit Unit (IAU).

The IAU is responsible to the Vice-Chancellor and the University Governing Council and acts to help in the effectiveness of systems put in place to mitigate risk, control and governance processes an arrangements to promote value for money, i.e., economy, efficiency and effectiveness in the University's operations.

To be able to function effectively, the IAD has been organized into Three (3) main areas; Compliance and Assurance Audit Unit, Performance Audit and Information Technology Audit Unit.

Directorate/Division and Staff

S/N	NAME	RANK/POSITION	QUALIFICATION
1	Dr. Victor Marvelous Atsu	Director of Audit	PhD (Finance), CA, MBA (Finance), BSc (Accounting)
2	Ms. Rosina Addo Asamoah	Senior Internal Auditor	CA (Gh), MBA, Accounting, BSc. Administration and Accounting, HND, Accounting
3	Mr. Richard Twum Barimah	Internal Auditor	CA (Gh), CIPFA (Affiliate), MSc, HND Accounting
4	Miss Bridget Agyemang	Assistant Auditor	ACCA, MSc (Accounting & Finance)
5	Mr. Kelvin Kubi Appiah	Assistant Auditor	MSc (Accounting & Finance), B.ED Accounting
6	Mr. Evans Sakyi Ampah	Senior Auditing Assistant	BSc. Computerized Accounting, HND Accounting
7	Mr. Wisdom Adusei	Senior Auditing Assistant	CA (Gh), MSc (Accounting & Finance) BSc Biochemistry
9	Miss. Lydia Obiri	Senior Auditing Assistant	MSc (Accounting & Finance), BSc. Computerized Accounting, HND, Accounting
10	Mrs. Ellen Baidoo	Assistant Registrar	ChPA, MSc. Management and Human Resource Strategy, CEMBA, B.A Psychology with Sociology
11	Ms. Irene Asantewaa Appiah-Fei	Principal Administrative Assistant (Contract)	B.A Sociology and Social Work, MSc. Monitoring and Evaluation

Major Activities over the Past Year

Completed Activities

a. Audit of School Fees
b. Review of Procurement Activities
c. Project Audit
d. Hall of Residence Audit
e. Human Resource and Payroll Audit

Ongoing Activities

a. Store Management Audit
b. Sale of Forms Audit
c. Clinic IGF Audit

Other Activities

1. Payroll Training
2. ICAG Annual conference
3. Contemporary Issues in Higher Education, Mentorship and succession Planning

Challenges

» The major challenge that the Internal Audit Directorate is faced with is lack of office space to enable the Directorate to effectively facilitate its working activates.
» Another challenge is that parts of the ceiling in the office leaks badly during rainfall and it could damage our office equipment during heavy rains.
» Shortage of staff
» Lack of computers and Printers

Future Plans for the Directorate

Training Programme for staff of the Directorate on the use of Audit working papers.

WORKS AND PHYSICAL DEVELOPMENT DIRECTORATE

WORKS AND PHYSICAL DEVELOPMENT DIRECTORATE

Introduction

The Works and Physical Development Directorate is responsible for the development, maintenance, and management of the University's physical infrastructure, as well as the provision of essential utility services that support the University community. As the technical arm of the institution, the Directorate fulfills its mandate through the coordinated efforts of a multidisciplinary team of professionals in the built environment, complemented by dedicated technical and artisanal and janitorial junior staff. Together, the team ensures that the University's facilities and physical resources are efficiently developed, maintained, and improved to create a conducive environment for teaching, learning, and research.

2.0 DEPARTMENTS AND STAFF

The Directorate comprises several departments and Sections, including:

1. **Physical Planning and Development Department**
   - » Architecture Section
   - » Engineering Section

2. **Contract Administration Department**
   - » Quantity Surveying Section
   - » Contracts & Project Management Section

3. **Maintenance Department**
   - » General Building Maintenance Section
   - » Mechanical, Electrical & Plumbing (MEP) Section

4. **Estate Department**
   - » Municipal Services Section
   - » Estates and Valuation Section

5. **Grounds, Gardens and Beautification**
   - » Landscape Maintenance Section
   - » Community Engagement and Education Section

The Estate Organization is responsible for management of the University's land assets, including space allocation, facilities Management, environmental sanitation and property evaluation.

2.1 STAFFING

The Directorate's operations are supported by a skilled team of professionals and technical staff, detailed as follows:

Name	Rank/position	Qualification
Surv. Diyaudeen Mahmud Khalid	Director	BSc., MSc. (KNUST), PMP, MRICS, MCIPS, MGIPS,MGhIS,
Arc. C. Papa Nii Tetteh Achamfuo-Yeboah	Senior Architect/Head, Physical Planning Department	BSc., M. Arch, (KNUST) A.G.I.A
Arc. Lawrence Puntanah Tibiru,	Senior. Architect/Head, Estate Organization	BSc., PGDip, MSc. (KNUST), AGIA, MIET
Surv. Margaret Atta-Poku	Snr. Quantity Surveyor/Head, Maintenance Department	BSc., MA (TRENTO), MGhIS MSc(KNUST)
Surv. Matthew Arhin	Snr. Quantity Surveyor/Head, Contract Administration Department	BSc., MSc (KNUST), MGhIS, PMP
Arc. Kwaku Safroadu Amankwah	Architect/ Sectional Head, Architecture Unit	BSc., M. Arch (KNUST), A.G.I.A
Surv. Maxwell Ofori, FMP	Assistant Estate Officer/Sectional Head, Municipal Service	HND, BSc (KsiTU), MSc (UCC), MGhIS, FMP
Francis Amponsah Djan	Chief Estate Officer/ Ag. Head, Environment and Sanitation Management Section	BSc/MPhil
Akpene Ame Kwadzo	Assistant Registrar	BA, MPA, ChPA, CMC
Ebenezer Abuaku	Senior Assistant Registrar/ Curator/Head of Department of Grounds, Gardens and Beautification	HnD/BSc, MSc, PGDip

2.2 Staff of the University Halls

The University Halls are administered by a dedicated and structured team consisting of Hall Masters, Hall Tutors, Hall Assistants, Senior and Principal Administrative Officers, as well as Accounting, Auditing, Janitorial, and Labour Staff. This team works collaboratively to ensure the smooth and efficient operation of all hall activities and services.

3.0 MAJOR ACTIVITIES OVER THE PAST YEAR

3.1 Completed Projects

During the period under review, the Works and Physical Development Directorate effectively undertook the planning, design, and supervision of various development projects, including the following:

3.1.1 Internally Generated Fund (IGF)

- Conversion of Storage Room into Offices for IT Directorate
- Construction of Kraal for Dormaa Campus
- Construction of Laboratory with Offices for Basic and Applied Biology Department Phase I
- Conversion of Lecture Room into Laboratory for Department of Agriculture Science, Dormaa Campus
- Construction of Pre-School with Ancillary Facilities for the UENR Basic School

3.1.2 SRC Funded Projects

» Construction of Pave Walkway from Roundabout to Science Block
» Refurbishment and Furnishing of Library at University Hall 2
» Construction of Public Health Offices for University Clinic
» Construction of Sokaway for the UENR Cafeteria and Applications Laboratory
» Landscaping across campus

3.1.3 Other Funded Projects Completed

» Renovation of EORIC

3.1.4 University Halls 1& 2 Activities

» Mechanization of Borehole and Extension of water supply to enhance regular water availability.
» Collaboration with private hostels to supplement the University's accommodation efforts.
» Refurbishment and maintenance of the Halls, including Plumbing works, Carpentry and electrical works.

3.2 Ongoing Projects

3.2.1 IGF

- i. Construction of 1000-Bed Capacity Hostel
- ii. Construction of 4-Storey Multi-Purpose Block
- iii. Construction of UENR Hospital Phase 1
- iv. Conversion of Syndicate Hall 1 into Computer Lab
- v. Extensive Maintenance Works on Lecture Halls, Halls of Residence and Lecturers' Offices

3.2.3 GETFund Projects

- There are six (6) ongoing GETFund projects at various stages of construction, some initiated as far back as 2014. Challenges affecting these projects include:
- Delay in securing financial clearance from GETFund
- Payment delays.

3.2.4 Other Funded Projects Ongoing

- Construction of Applications Laboratory Phase II funded by GNPC
- Level Up
- Vertical Extension of Existing Pavilion

3.2.5 University Halls

- Planned and Routine maintenance is being conducted to ensure a comfortable living environment for students
- Liaison with private investors to provide safe and affordable accommodation due to insufficient on-campus housing.

4.0 CONFERENCES / WORKSHOPS / SEMINARS

- Some members of staff of the Estate Organization attended the following Conferences / Workshops / Seminars.
- Professional CPD organized by VES held Accra on September 4, 2025.
- Workshop was organized by Human Resources Division for staff of Works Directorate with theme 'An overview of works and physical development of a Public University, understanding the roles and interdepencies of the Directorate'.
- 3. Training program for all Junior Staff at Estate Organization held on September 23, 2025 at Sunyani Campus.
- 4. National Project Management Conference and Project Management Excellence Awards
- 5. 20th Surveyors' Week and 56th Annual General Meeting.

5.0 CHALLENGES

- The University is facing significant infrastructural deficit, particularly concerning Lecturers' offices, Lecture Halls, Laboratories, Administrative Staff offices and most especially with student accommodation because with a current student population exceeding Fifteen Thousand (15,000), the traditional halls of residence can accommodate only Nine Hundred and Eighty (980) students. Ongoing discussions with investors to provide safe and affordable on-campus accommodation for students are supported by the Directorate, which offers technical assistance to facilitate negotiations.

6.0 FUTURE PLANS OF THE DIRECTORATE

- » Collaborate with well-equipped private hostels to supplement the University Halls' capacity in accommodating the increasing student population.
- » Organization of regular training sessions to the various departments under the Directorate to cater for their respective needs, with the aim of improving the technical and overall work ethics of staff to enhance collective performance for the achievement of core mandates.
- » Conversion of forest reserve close to the administration block into an eco-park.
- » Raising of trees and expansion of nursery to support landscape maintenance and tree planting on campus.
- » To be able to register and document all University lands and fence the western boundary of Sunyani Campus.

» To fully furnish the Bank of Ghana Auditorium with a world-class standard facility.
» To partner with Integrated Recycling & Compost Plant Ltd (IRECOP) to embark on waste recycling.
» Landscaping work at the New Campus
» Clearing the boundaries of the University land to avoid encroachment into the land.

OFFICE OF THE DEAN OF STUDENTS

INTRODUCTION

Over the years, the Office of the Dean of Students working closely with the SRC/GRASAG have sought to provide programmes and services that enhance the personal and academic development of our students. We seek to provide a conducive atmosphere for students to unearth their potentials and acquire the necessary leadership and entrepreneurial skills. This is evident in the capacity building programmes that we have organized over the years.

The functions of the office include promoting the welfare of Junior Members of the University, making representation to the University about ways of enhancing quality student's life, overseeing the formation of students' associations or societies. This is mainly done through capacity building and advocacy for students. The Office works cordially with the leadership of the SRC/GRASAG to provide peaceful environment for teaching and learning on campus.

DEPARTMENTS AND STAFF

A) Dean of Students' office

The staff strength of the office is four and supported by three (3) National Service Personnel

1	Prof. Simon Abugre	Dean
2	Dr. Naomi Kumi	Vice Dean(Dormaa Campus)
3	Mr. James Clarke Hayford	Assistant Registrar
3	Ms. Amanda Sarfo Boateng	Principal Administrative Assistant
4	Enock Konadu Mensah	National Service
6	Enock Korang	National Service
7	Enchill Efua Priscilla	National Service

MAJOR ACTIVITIES OVER THE PAST YEAR

1. Collaboration with Schools, Departments and Units within the university.

In order to provide the appropriate welfare support and address students concerns in a timely manner, there was the need to collaborate with other departments within the university. Within the year, we have worked closely with Institutional Advancement, Finance Directorate, the Academic and Student Affairs Division, Information Technology Directorate, Hall Management, University Relations Office, Security Department, University Chaplaincy, Guidance and Counselling Unit to provide a unique academic learning experiences for students. With this strong collaboration, we have addressed students concerns in a timely manner.

2. Orientation for Freshers

A comprehensive orientation programme was organized for our freshmen and women to facilitate their integration into the university community. External institutions invited to be part of the programme were Ghana Immigration service, Narcotic Control Commission and Debbyles Disability Foundation. Generally, the students were oriented on Examinations within the university, rules of the various halls, life on campus, security issues, Chaplaincy activities, counselling opportunities in

the university, Health related issues and highlights of issues in the student handbook. The students were addressed by the Deans of the various schools, where faculty elaborated on their academic journey.

3. Capacity Building for Students

During the 2024/2025 academic year, a number of activities were organized which were aimed at building the capacity of our students. The following capacity building activities were undertaken:

i) Following a very successful SRC/NUGS elections, a 5-day comprehensive orientation programme was organized for all newly elected executives of SRC/LNUGS. They were exposed to the workings of some key offices within the university. These were the procurement directorate, the Finance directorate, the Academic and Student Affairs Office, I.T. Directorate, University Relations Office, Security Department, University Chaplaincy, Guidance and Counselling Unit. Officers in these Departments were present to introduce the activities of their departments to the new executives.

ii) Students' skills and entrepreneurship fair: Every year, the SRC provides resources to get students trained in the followings fields:

- Photography and video editing
- Graphic Design
- Cyber Security
- Baking, "SOBOLO" and Fresh Yogurt making
- Online trading
- Decoration and Hamper making
- Curriculum Vitae writing and Public speaking
- Hair Braiding
- Nails, Makeup and Wig making
- Detergent making

iii) Seminar on entrepreneurship was organized where alumni who had established their own businesses came to share their experiences with prospective entrepreneurs.

iv) Study abroad seminar was also organized for our students in collaboration with GIZ, ASAF and Campus France Ghana.

4. Students Activities/Programmes

The following activities were undertaken by the SRC and the Local NUGS.

i. The SRC/NUGS have been able to attend all their congresses and meetings of USAG and NUGS. This year an aluminus, Lady Masiata Sufyani was elected as National Union of Ghana Students (NUGS) Secretary for Women Development.
ii. 'Akwaaba' summit was organized to welcome first year students into the university.
iii. In collaboration with the Chaplaincy unit and Hall management we had a memorable welcome ceremony for all freshers.
iv. Facilitated the organization of Miss Technologian contest.

v. Facilitated and encouraged UENR students to contest NUGS and University Students Association of Ghana (USAG) elections at the National level.

5. SRC Projects

The under-listed projects were carried out by the SRC during the 2024/2025 academic year:

1. Distributed over 5000 Telecel Sim Cards to freshmen with a package 10 GB and 200 minutes talk time and SMS time. Package renewal is every month.
2. Provided 'Anidaso) Nsae' Scholarship with a total sum of GHC 300,000 awarded to 357 students.
3. Local NUGS also established 'AKOMA PA' scholarship for students who are physically challenged.
4. Extended and improved WiFi connectivity to hall 2.
5. Supported students to acquire the Ghana card.
6. Supported the establishment of University Hall 2 Library.
7. Pavement of key walkways for students.
8. Rehabilitation of Damaged Student Furniture.
9. Souvenirs were distributed to first year students.
10. Renovation of hall 1 Basketball court.
11. Fixing of 'Zinko' road street light.
12. Provision of 20 Walkie Talkies to UENR security.

5. GRASAG activities

GRASAG successfully held an online elections and the new executives were given orientation. They have organized a number of seminars to build the capacity of their members on thesis writing and winnable proposal writing.

During their GRASAG week celebration, the following activities were organized: Tree planting, seminar on research, games and dinner. WOCOM also organized a seminar on Academic work balance and entrepreneurship.

6. Challenges of the office

» Inadequate office space: The inadequate office space possesses a great challenge to the work of the Dean of Students. The confidentiality of documents is sometimes breached.

» Inadequate Staff Strength: Currently, the staff strength is inadequate per the activities of the office.

Future Plans of the Office of the Dean of Students

» The Office seeks to prioritize students' activities by appealing to all stakeholders to give enough attention to students' welfare.

» Explore the possibility of having continuous orientation for our students.

» The office would collaborate with the SRC electoral commission to improve the eligibility checks of prospective SRC/LNUGS candidates.

» Explore the possibility of e-voting for SRC/LNUGS elections.

» Creation of section or units under the office

CHAPLAINCY UNIT

CHAPLAINCY UNIT

Introduction

The chaplaincy unit, in collaboration with the chaplaincy board, regulates all religious activities in the university. We are also mandated to advise management on all religious-related issues.

Directorate/Division and Staff
Chaplaincy Unit
Head: Rev. Benjamin Darko Asamoah (PhD)

Major Activities over the Past Year

3. Completed Activities

- Congregation Thanksgiving service - Sunday, December 1, 2024. This program was graced by Rev. Gideon Hackman, Chaplain of the Sunyani Technical University.
- Christmas Corals service - Friday, December 18, 2024. This service featured the learners from the UENR Basic School, as well as all unions in the university community.
- The Students' Chaplaincy Council embarked on the campaign 'Be my campus friend' to orient the freshmen and women during their stay in UENR.
- Youth Ablaze - Wednesday, 29th January to Friday, 31st January 2025, with Rev. Adu Kyeremeh as the main speaker at the forecourt of the University Hall One.
- Matriculation Thanksgiving service at Sunyani and Dormaa campuses – Sunday, February 23, 2025.
- Easter Choral Festival by the UENR Staff Choir – Tuesday, April 15, 2025.
- Fire conference by the Students' Chaplaincy Council in collaboration with the Victory Bible Church International – Wednesday, 9th to Friday, 11th July 2025, with Bishop N.A Tackie Yarboi as the main speaker at the UENR Bank of Ghana auditorium.
- Vice Chancellor's End-of-Semester Thanksgiving Services: - Thursday, May 8, 2025 (for semester 1) and Thursday, September 11, 2025 (for semester 2)
- Memorial Service – Tuesday, October 7, 2025, held in honor of the late Mr. David Ofosu Ntiamoah, a lecturer at the Medical Laboratory Sciences department
- The Chaplaincy Unit, through the participation of the Students' Chaplaincy Council, represented UENR in the National Bible Quiz Competition held in Accra. This initiative not only showcased the university's commitment to Christian excellence but also helped in publicizing UENR at the national level, earning positive recognition among other institutions.
- Procurement of 140 chairs for use at the Old Auditorium, significantly improving seating capacity and comfort during university events.

4. Ongoing Activities

a. Chaplaincy hour morning devotion on Greena FM every Monday and Wednesday from 5:00 am – 6:00 am.

b. Contribution to student admission process: The various registered churches on campus are tasked by the chaplaincy unit to advertise the application brochure at their mother churches and other church platforms. The Muslim students are involved in this exercise.

c. Interdenominational weekly prayers every Thursday morning, 7:30 am – 8:00 am at both Sunyani

and Dormaa campuses.

d. Collaboration with the counselling unit to provide counselling services to both students and staff Weekly devotions are held with various groups in the university, including learners and teachers at the Basic School, staff and patients at the university clinic, etc.
e. Procurement of 140 chairs for use at the Old Auditorium, significantly improving seating capacity and comfort during university events. Procurement of these chairs will continue till the vision of filling the old auditorium with chairs is realized.

Challenges

1. Lack of enough space for religious activities.
2. Limited financial resources for large-scale programs.
3. Gadgets for religious programs are limited and, therefore, over-reliance on rentals.

Future Plans of the Office/Directorate/Division

- Acquisition of land space for both the Christian and Muslim communities for religious activities.
- Purchase of gadgets such as keyboards, PA systems, etc., to be used for religious activities in the university.

GUIDANCE & COUNSELLING CENTRE

GUIDANCE & COUNSELLING CENTRE

Introduction

A sound Guidance and Counselling program is essential for any educational program at all academic levels. The basic premise of the Guidance and Counselling department at the University is the development of a total and wholesome personality of each individual. This means that the individual's worth and uniqueness is recognized regardless of who he/she is as a person and what kind of problem he/she portrays.

2.0 Staff of the Guidance & Counselling Centre/ Chaplaincy

1. Mrs. Eva Atika Bakuri Dinye Ag. Head, Counselling Unit
2. Mr. Prince Kwame Affum Counsellor, Dormaa
3. Ms. Cindy Awuah Pokuaa Snr. Administrative Assistant
4. Ms. Afia Tutuwaah-Yeboah Snr. Counselling Assistant

3.0 Completed Activities (Both Sunyani and Dormaa Campuses)

3.1. Orientation for Fresh students

The Centre offered essential education to new students during their orientation to foster a supportive learning environment. This orientation provided an opportunity for students to familiarize themselves with the campus rules and regulations. Issues discussed included communication channels within the University, campus life, and strategies for overcoming academic challenges. Additionally, the Counsellor discussed the counselling services available and addressed topics related to academic expectations and acceptable behavior.

3.2 'Anidaso Nsa' (Hope not lost) support

The Centre served on the Scholarship Fund Committee, which oversaw the vetting and selection of student applicants. This involvement included assessing eligibility criteria, verifying supporting documentation, and making recommendations to ensure a fair and transparent award process.

3.3 Work-Life Balance

The Centre organized its annual work-life balance programme for female staff of the University. The programme brought together over 50 female participants from various departments across the university. It was designed to provide a supportive space for women to openly discuss the realities of balancing professional and personal responsibilities. The initiative forms part of the Centre's broader mandate to promote emotional, psychological, and social well-being among staff and students, and to create awareness around mental health and holistic wellness.

Unlike typical seminars or lectures, the session took the form of a round-chair discussion, encouraging open dialogue and honest sharing among participants. This interactive format gave each woman the opportunity to share her unique experiences, voice her concerns, and contribute to a collective reflection on how to better navigate the demands of work and home life.

3.4 Mental Health Week Celebration

The Centre in collaboration with the peer counsellors organized a programme dubbed: "Your Mind Matters – Heal, Grow, thrive". The programme was organized to mark the Mental Health Week

celebration and it aimed to promote mental well-being, reduce stigma, and foster a supportive community. It featured insightful presentations from Mrs. Benedicta Henneh, who spoke on mental wellness and relationships, and Mrs. Adwoa Yeboaa Owusu, who discussed recognizing and responding to suicidal signs.

The program brought together various campus societies, including GESAM, AIESEC, and the Red Cross Society, Ghana, along with about 25 students, representatives from the Guidance and Counseling Unit, and 15 executives from the University Peer Counsellors Society (UPC). Students actively engaged in discussions, and surveys conducted before and after the event showed a significant improvement in their understanding of mental health and its importance.
Feedback from participants and societies was overwhelmingly positive, emphasizing the relevance and impact of the program. Overall, the event successfully achieved its goal of raising awareness and encouraging open conversations about mental health.

3.5 Peer Counsellors Training

The Centre, also had training session for peer counsellors focused on the topic of masturbation, aiming to provide accurate information, promote healthy attitudes, and equip participants with the knowledge and skills to guide their peers effectively. The session explored the psychological, emotional, and physical aspects of masturbation, addressing common myths, misconceptions, and the role of self-control and personal values in sexual health.

Facilitators emphasized the importance of approaching the topic with sensitivity and respect for individual beliefs while maintaining a non-judgmental and supportive attitude during peer interactions. Through interactive discussions and case studies, participants gained deeper insight into how to handle related counselling situations with professionalism and empathy.

3.6 Monitoring the Activities of UENR Peer Counselors

The Guidance and Counselling Center actively supervised the UENR Peer Counsellors both Sunyani and Dormaa Campus, overseeing and impacting the lives of students on campus.

3.7 Individual Counselling

The Centre, both Sunyani and Dormaa campuses provided individual counselling services to its clients. Most cases focused on issues such as relationship challenges, time management, study skills, and various forms of addiction. The addiction-related cases primarily involved gambling, pornography, masturbation, alcohol, and drug use. Some students sought counselling on their own initiative, while others were referred to the Counselling Centre by their lecturers. Cases that required further intervention were referred to the Sunyani Teaching Hospital's Psychiatric Unit and the Dormaa Presbyterian Hospital's Psychiatric Unit respectively. Additionally, the Presbyterian Hospital Psychiatric Unit also referred individuals to the Centre for follow-up counselling and support.

4.0 Ongoing Activities

4.1 Individual Counselling

The Counselling Centre continues to provide consistent and professional individual counselling services to support the emotional, psychological, and academic well-being of students. Committed to its mission of fostering personal growth, resilience, and mental health awareness, the Centre remains

an essential resource within the institution.
Students access counselling services through both self-referral and staff referrals. A growing number of students approach the Centre on their own initiative, reflecting increased awareness and openness to mental health support. At the same time, lecturers continue to refer students who may benefit from professional guidance and intervention.
The Centre upholds the principles of confidentiality, professionalism, and empathy in all its services, ensuring a safe and supportive environment where students feel heard and respected. By continuously offering these services, the Counselling Centre plays a vital role in promoting student well-being and supporting their academic and personal development.

4.2 Creating Awareness

The counseling center is continuously conducting awareness campaigns to inform staff and students about its responsibilities, offerings, and constraints. These ongoing efforts aim to enhance understanding and resource utilization within the campus community.
5.0 Workshops/Conferences/Seminars
Some of the workshops the Counsellors attended to build their capacity are as follows

- Grief, Loss and Loneliness in Aging Adults – TUCEE Institute of Counselling and Technology
- Healing Clients in Therapy: Practical Tips for Practitioners– TUCEE Institute of Counselling and Technology
- Suicide Risk Assessment and Prevention – TUCEE Institute of Counselling and Technology
- Case Analysis (Monthly Webinar) – Ghana National Association of Certified Counsellors

6.0 Challenges of the Counselling Centre both Sunyani and Dormaa Campus

6.1. Inadequate Staff

The staff strength of the Centre for both the Sunyani and Dormaa campuses together is woefully inadequate to handle the number of students' issues that arises, which is overwhelming for the few staff available. The counsellor-to-student ratio is 1:16,000 and 1:1,078 at the Sunyani and Dormaa campuses respectively. Despite its vital role in supporting students' mental health and personal development, the Centre remains under-resourced and overstretched in meeting the growing demands of the student population.

6.2. Inadequate Recognition and Institutional Support

The Counselling Centre continues to face significant challenges that affect its effectiveness and overall recognition within the institution. Despite its vital role in supporting students' mental health and personal development, the Centre is often not given the respect and acknowledgment it deserves for its contributions. The university community also hold the misconception that the Centre does very little or does not work actively. This perception largely arises because much of the Centre's work is confidential in nature, and since the details of counselling activities cannot be publicly shared, it often appears as though little is being done.

The Centre frequently experience difficulty in accessing resources, materials, or assistance

needed to carry out its duties, a process that tends to be much easier for other offices on campus. This lack of recognition and support has been a great challenge for the Centre and, at times, hinders the smooth running of programs and activities designed to benefit the student body. The situation also impacts motivation and limits the Centre's ability to expand its services and reach.

7.0 Future Plans

The center will always continue to provide the needed emotional and psychological support to students and staff and their dependents of this university and to the general public.
Some proposed activities by the centre for the next academic year (2025/2026) are outlined in the section below.

7.1 Programmes for Students

The following programmes are some of the programmes we will organize for the 2024/2025academic year for students.

- Welcoming of Fresh Students
- Orientation for Fresh Students
- Separate programmes for male and female fresh students on adjusting to life away from home
- School Base Seminars
- Talk on abuse
- Talk on use of social media
- Administering of learning style inventory (Psychometric) and study skills seminar
- Career Fair
- Trainings for Peer Counsellors
- Emotional intelligence
- Seminar on relationship and sex
- Branding
- Collaborate with the Public Health Division of the University Clinic to organize programmes on Safe Sex Practices

7.2. Programme for Staff

1. The Centre will continue to organize its annual programmes for staff on stress Management and Work-life Balance. This is to enable staff attain emotional stability to work effectively.
2. Collaborate with Management to address work-life challenges during training sessions for newly appointed directors to enhance their understanding of the experiences and needs of female staff.

8.0 Recommendation

8.1. Additional Staff

The Centre, both Sunyani and Dormaa need Counsellors and Assistant Counsellors. Recruiting them would significantly alleviate the burden on counsellors as the counsellor to student ratio is 1:16,000 and 1:1,078 at Sunyani Campus and Dormaa Campus respectively.
8.2. Inadequate Recognition and Institutional Support

There is a need for stronger institutional support, improved communication, and a greater appreciation of the Centre's critical role in promoting students' well-being and academic success. Recognizing the Counselling Centre as an essential unit will not only boost its efficiency but also enhance the overall welfare and mental health culture within the university community.

9.0 Conclusion

All the planned programme of activities went on well. We look forward to working towards the total development of and wholesome personality of all those who patronize the Office of the Counselling Centre to enhance their academic and behavioural attitudes. We also envisage that in the coming academic year, the Counselling Unit will get the needed assistance in the form of finances and other human capital to be able to meet the mission of the Unit.

The Guidance and Counselling Centre, remains committed to ensuring the wellbeing and success of our students and the university community at large. We appreciate your attention to the findings and recommendations of this report, and we look forward to implementing the suggested measures for the continual improvement of the Guidance and Counselling Center.

UNIVERSITY HALL I

UNIVERSITY HALL I

INTRODUCTION

The University of Energy and Natural Resources formerly had two (2) residential facilities namely GETFund Hostel (Main) and GETFund Hostel Annex (New Hostel). These hostels officially transitioned into Halls of residence on the 1st of September, 2023 namely University Hall One (I) and Hall Two (II) respectively. The University Hall I have a library, room for religious and other activities, grocery center as well as a multi-purpose playing ground that serves as a basketball court, volleyball court, and tennis court for sporting activities.

Providing and managing students' accommodation is one of the essential chores of tertiary institutions as it enhances students' lives and academic pursuits. Therefore, the University Halls of the University of Energy and Natural Resources is mandated to provide a secured and serene environment to mainly fresh students to live in an on-campus accommodation. The University Hall I provided accommodation for a total number of Six Hundred and Forty-Five (645) Students for the 2024/2025 academic year.

2.0 STAFF OF THE UNIVERSITY HALLS

The University Hall I is managed by various Staff to ensure the smooth running of the Hall activities. These staff comprise of the Hall Management, Hall Assistants, Administrator, Accounting, Cleaners, and Laborers. About 37 persons work at Hall I (Appendix 1).

3.0 MAJOR ACTIVITIES OVER THE PAST YEAR

a. Preparational activities to welcome fresh residents

Some of the rooms and bathrooms needed repairs – painting, plumbing, tiling and minor electrical works before school reopens.

- Some staff and other artisans - plumbers, carpenters, tillers, painters, electricians, and supervisors - were engaged during the second semester vacation to do the renovation works.
- Interior painting of some rooms of the University Hall I was also done during vacation for the arrival of the First-year students.
- Orientation was organized for residents of the University Hall I and affiliates
- The unveiling of the Hall's logo, colours and slogan led by the JCRC was done in January 2025.
- With support from the 2024/2025 JCRC, the TV room was renovated
- The hall purchased one brushers and received a donation of another from the JCRC to support the work of the grounds teams.

b. Liaising with private hostels to augment the effort of the University in providing accommodation for students

The University hall l liaised with private hostels in providing accommodation for students as part of the effort in augmenting the University's accommodation deficit.

c. JCRC for Hall I

Within the year under review, the hall elected new JCRC executives who will serve for about two semesters in the 2025/2026 academic year.

4.0 COMPLETED ACTIVITIES

The 2024/2025 Academic year began with the major preparational activities at the Hall towards the welcoming of fresh students. The Staff engaged in numerous preoperational activities to ensure the hall is conducive and serene to accommodate fresh students. The following activities were engaged and implemented to ensure a conducive atmosphere was achieved at the hostels;

- Painting the exterior walls of the University hall I.
- Renovation of JCRC Television room
- Fixing and repairing of carpentry works such as doors, beds and room lockers
- Plumbing works at the hall such as WC's and sink installations as well as smooth water circulations in all rooms
- Fixing and repairs of electrical gadgets (fans, bulbs, sockets) in each room to ensure it is safe and danger free for students.
- Intensive cleaning of hall rooms and its environs by the cleaners and laborers to ensure serenity in and around the hostel facilities
- Mounting of Tents and Canopies to aid registration purposes at the Halls.
- With reference to 2023/20234 academic year, the University Hall I has One Hundred and Sixty-Eight (168) rooms. The University Hall1 holds a capacity of 650 residents comprising of 415 males and 235 female students.

5.0 ONGOING ACTIVITIES

i. Routine maintenance at the Hall

As a result of the usage of the Hall facilities for the academic year, routine maintenance is always carried out to ensure comfortable stay for the new students admitted.

ii. Searching for more well-furnished private hostels to accommodate students.

Due to the inadequate hostel facility to accommodate all the fresh students, the Hostel Unit is carrying out an exercise to get more well-equipped private hostels to augment the effort of the Hostel Unit

iii. Creation and Renovation of office space

The University Hall I is working on providing spaces to serve as offices for the Hall master and other management members. Requisition for office items have been sent to the Procurement Directorate.

6.0 OTHER ACTIVITIES

There have not been workshops, conferences, and seminars. However, from time to time, the members of the Unit meet to discuss matters pertaining to the well-being of their Unit.

7.0 CHALLENGES

One of the biggest challenges of the Hall is the inability to guarantee accommodation for all students (especially continuing students). The University has a student population of more than Fifteen Thousand (15,000). Out of this number, the two University Halls are able to accommodate a little over One thousand students rendering the remaining student's population non-resident. We therefore recommend the building of additional university halls to augment the existing one.

Inadequate staff in the area of artisans, plumbing, carpentry, etc.), laborers and cleaners. It is therefore recommended that the University hall I is furnished with additional staff to enhance effective delivery of services

FUTURE PLANS OF THE UNIT

i. Partnering with other well-furnished private hostels to augment the effort of the University Hall I in accommodating the growing student population of the University.
ii. Liaising with the Human Resource Division and IT Directorate to organize training workshops and seminars for the staff of University Hall I especially the hall Assistants since they are the first point of contact for students and visitors.
iii. Including the filling of the Private hostels in the University's accommodation portal.
iv. Building of additional University Halls to curb insufficient accommodation issues on campus through soliciting for investors and philanthropist to come on board.

Appendix 1
STAFF OF THE UNIVERSITY HALL 1

S/N	NAME	DESIGNATION
1	Mr. Johnson De-Graft Ankamah	Hall Master
2	Mr. Eric O. Essandoh	Deputy Hall Master
3	Ms. Pearl Afriyie Amankwah	Senior Hall Tutor
4	Dr. Benjamin Darko Asamoah	Deputy Snr. Hall Tutor (hall 1)
5	Dr. Anthony Baidoo	Hall Tutor
6	Ms. Sandra Korankye Yeboah	Principal Administrative Assistant
7	Mr. George Anane	Senior Accounting Assistant
8	Ms. Elizabeth Peprah	Senior Accounting Assistant
9	Mr. Emmanuel Sackey	Accounting Assistant
9	Mr. Prince Afriyie Marfo	Principal Hall Assistant
10	Mr. Ruth Pomaa	Senior Hall Assistant

11	Mr. Emmanuel Amo Kusi	Senior Hall Assistant
12	Mr. Randy Agyei Frimpong	Senior Hall Assistant
13	Ms. Victoria Awidana Lariba	Senior Hall Assistant
14	Mr. Enock Dankwa	Senior Hall Assistant
15	Mr. Alfred Gyabaah	Senior Hall Assistant
16	Mr. Dominic Akoto Aheto	Senior Hall Assistant

LABOURERS AND CLEANERS

1	Ms. Rose Manu	Cleaner
2	Ms. Margaret Nyarko	Cleaner
3	Mr. Theophilus Akuokoga	Labourer
CONTRACT STAFF		
4	Mr. Patricia Amankwaa	Cleaner
5	Ms. Janet Sakyiwaa	Cleaner
6	Ms. Vivian Kyerewaa	Cleaner
7	Ms. Mercy Kumi	Cleaner
8	Ms. Rosina Adarkwah	Cleaner
9	Ms. Ernestina Tele	Cleaner
10	Ms. Dora Bekureh	Cleaner
11	Ms. Janet Serwaa	Cleaner
12	Ms. Jackline Asigre	Cleaner
13	Ms. Mary Twenewaa	Cleaner
14	Ms. Evelyn Aba	Cleaner
15	Ms. Cindy Duodu	Cleaner
16	Ms. Erica Twumwaa	Cleaner
17	Mr. Dominic Naamwa	Labourer
18	Mr. Martin Ponebe	Labourer
19	Mr. Kofi Issah	Labourer
20	Mr. Vitus Antuogmen	Labourer

UNIVERSITY HALL II

INPUTS FOR VC'S REPORT TO CONGREGATION, 2024/2025

INTRODUCTION

Among the numerous things that enhance a student's academic and social life experience at the university is the availability of adequate teaching and learning facilities, including comfortable and accessible residential accommodation.

1.1 About University Hall II

The University Hall II situated on the campus of the University of Energy and Natural Resources (UENR), close to the University Basic School (UBS), was established in 2018 as GETFund New Hostel, but renamed University Hall II in 2023, to provide on-campus residential experience, with excellent accommodation facilities, for undergraduate and postgraduate (Ghanaian and international) students. Hall II has a total of 117 rooms, which all have very well maintained en-suite facilities. Some of the rooms can take up to 2 people in a room and the others can take up to 4 people in a room.

With a student population of over 400, the Hall Management collaborates with other units of the University such as Works Directorate, Office of Dean of Students, Security Unit, Health Directorate, Counselling Unit, etc., to provide a serene and healthy atmosphere for academic and personal growth and development of the students and staff of the hall.

2.0 DIRECTORATE/DIVISION AND STAFF

The Governing body of University Hall II is the Hall Council, which is responsible for management of the hall and affairs of students. The Council comprises, the Hall Management (for general administration of the hall) and elected Junior Common Room Committee (JCRC). Management of the Hall is headed by the Hall Master, who also chairs the Hall Council, and the JCRC (elected six student members) is headed by the Hall President.
There is also a team of support staff (i.e., Administrative Staff, Hall Assistants, Accounts Staff, Artisans, Conservancy and Janitorial Staff), who provide ancillary services in the general administration of the hall and students' welfare services.

2.1 Hall Management

S/N	Name	Designation
1	Ing. Dr. Edward A. Awafo	Hall Master
2	Dr. Francis D. Appiah	Deputy Hall Master
3	Ms. Phillipa Mensah	Senior Hall Tutor
4	Ms. Benedicta Obeng	Deputy Senior Hall Tutor
5	Mr. Prosper O. Achaw	Hall Tutor (Counselor)

2.2 Hall Assistants

S/N	Name	Designation
1	Ms. Ellinda Sennow Ayisi	Senior Hall Assistant
2	Mr. Joseph Ankamah	Senior Hall Assistant
3	Mr. Solomon Dey	Hall Assistant
4	Mr. Isaac Zac Quarshie	Senior Hall Assistant
5.	Mr. Arnold Kuupol	Senior Hall Assistant
6	Mr. Abraham L. Kemah	Senior Hall Assistant
7	Mr. Daniel Kofi Woli	Senior Hall Assistant
8	Mr. Benjamin Gyumah	Senior Hall Assistant

2.3 Accounts Staff

S/N	Name	Designation
1.	Mr. Emmanuel Adinkrah	Assistant Accountant
2.	Ms. Charity Awadzi	Senior Accounting Assistant

2.4 Administrative Staff

S/N	Name	Designation
1.	James Kofi Agyei-Bohyen Boatin	Principal Administrative Assistant

2.5 Other Staff

S/N	Name	Designation
1.	Mr. Abraham Boamah	Conservancy Labourer
2.	Ms. Grace Yeboah	Janitor
3.	Ms. Esther Awonore	Janitor

3.0 MAJOR ACTIVITIES OVER THE PAST YEAR

3.1 Completed Activities

a. Completed works on the fourth floor (D- floor), with a total of 30 rooms. The rooms were furnished with beds and mattresses, and students were moved in at the beginning of the 2024/2025 academic year.
b. Converted an existing room to a fully furnished state-of-art reading room for the residents. Works were funded by SRC.
c. Created and furnished offices for the Hall Master, JCRC and Accounts and Administrative staff. The Hall Assistants' office was also given a facelift.
d. Installed broadband and Wi-Fi internet for the Hall and all the offices, including the Hall Assistants' office, with support from the SRC and IT Directorate.
e. Purchased decoders and signed up monthly subscription of DsTV in the TV room for students and Hall Assistants' Office.
f. Organized a seminar on public speaking, personal branding, financial management,

and entrepreneurship for the female residents at the hall, dubbed "Beyond Her Beauty v1.0".

g. Organized extracurricular activities such as indoor and outdoor games, aerobics, inter-hall competitions, and hall week celebrations which contributed to a more holistic university experience for the students at the hall.
h. Created and furnished a meeting room at the hall
i. Reviewed Tenancy Agreement to regulate the conduct of students in residence at the hall
j. Developed a Maintenance Policy for the hall, to guide routine and ad hoc maintenance of the hall's facilities.
k. Affiliated some private hostels to the hall.

3.2 Ongoing Activities

i. Erecting a fence wall at the back of the hall
ii. Procurement of additional cleaning and sanitation materials, maintenance materials and items to complete furnishing of offices and meeting room
iii. Collaborating with University Hall I and the Students Residence Management Committee to affiliate more private hostels to the University Halls.
iv. Construction of additional platforms to increase the number of surface poly tanks to boost water supply to the rooms in the hall
v. Construction of window shields to prevent driving rain flowing into the rooms and corridors.

4.0 OTHER ACTIVITIES

i. A forum was organized by the Hall Management for all residents and staff of the hall to discuss issues of concern to them and deliberate on ways to improve service delivery at the hall, including their welfare.
ii. JCRC elections were organized at the hall, in conjunction with the JCR and SRC, to elect the next administration of JCRC Executives for the 2025/2026 Academic Year.
iii. The 2024/2025 JCRC handed over to the 2025/2026 JCRC.

5.0 CHALLENGES

i. High cost of running the hall, e.g., maintenance (plumbing, electrical and carpentry), cleaning and sanitation, administrative, etc.
ii. Inadequate maintenance team
iii. Absence of recreational facilities
iv. Absence of CCTV cameras

6.0 FUTURE PLANS OF THE OFFICE/DIRECTORATE/DIVISION

a. Liaise with University Management, Directorate of Works and Physical Development, Grounds and Beautification Unit to do additional works, such as installing kitchen sinks at balconies in the rooms, levelling of surfaces and control erosion, grassing around the hall, paving of more surfaces, etc.
b. Fix ceiling fans in the rooms.

c. Provide study tables and chairs.
d. Paint the interior and exterior walls of the hall.
e. Do rewiring to increase the number of meters to reduce the number of users per meter
f. Liaise with executives of Local NUGS and SRC to do some projects at the hall, e.g., construct summer huts and lovers' benches, etc.
g. Recruit additional maintenance, grounds, and cleaning and sanitation staff.
h. Construction of the second phase or north wing of the hall.

SCHOOL OF ENGINEERING

SCHOOL OF ENGINEERING

1.0 INTRODUCTION

The School of Engineering was established in 2012 to meet the increasing demand for highly educated, motivated, and competent engineering graduates. The School offers unique opportunities for education and research and currently offers undergraduate degree programmes in Agricultural Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Mechanical Engineering, Petroleum Engineering, and Renewable Energy Engineering, as well as graduate degree (MSc, MPhil and PhD) programmes in Sustainable Energy Management, and Environmental Engineering and Management.

The School of Engineering seeks to train future engineers to address problems relating to energy. It focuses on the development of human capacity to manage and solve problems of extracting, collecting, converting and utilizing energy and natural resources. Its philosophy is to provide students with competitive skills and professional leadership within the energy and engineering sectors.

Departments and Research Centres/Institutes

i. Department of Civil and Environmental Engineering
ii. Department of Computer and Electrical Engineering
iii. Department of Agric and Bioresource Engineering
iv. Department of Mechanical and Manufacturing Engineering
v. Earth Observation and Research Innovation Centre

Administration of the School

The School Administration is constituted by the following personnel:

- Ing. Professor Emmanuel Kwesi Nyantakyi -Dean
- Mr. Eric Mwintome – Ag. Faculty Officer
- Mr. Marshall Gyimah – Snr. Administrative Assistant on Contract

Staff Statistics

S/N	RANK	NUMBER
TEACHING STAFF		
1	Full Professor	1
2	Associate Professor	9
3	Senior Lecturer	11
4	Senior Research Fellow	1
5	Lecturer	16
6	Research Fellow	7
7	Assistant Research Fellow	3
8	Assistant Lecturer	8

9	Principal Research/Teaching Assistant	1
10	Senior Technician/	18
	Senior Laboratory Technician/	
	Senior Research Assistant/	
	Senior Technical Officer	
11	Assistant Technician/Laboratory Technician	2
12	Communication Officer	1
13	Facility Manager	1
NON-TEACHING STAFF		
14	Senior Assistant Registrar	1

1. Department of Civil and Environmental Engineering

The Department of Civil and Environmental Engineering is committed to leveraging engineering and scientific principles to address the emerging challenges of our evolving world and significant societal issues in the twenty-first century. Initially established as the Department of Energy and Environmental Engineering, it offered two programs: B.Sc. Renewable Energy Engineering and B.Sc. Environmental Engineering, commencing in the 2013–2014 academic year. In 2017, the department was restructured into two distinct entities: the Department of Civil and Environmental Engineering and the Department of Energy and Petroleum Engineering. The B.Sc. Civil Engineering program was inaugurated in the 2017–2018 academic year. Additionally, the department provides postgraduate programs (M.Sc. and Ph.D.) in Environmental Engineering and Management, which were introduced in the 2015–2016 academic year.

Academic Programmes

The Department of Civil and Environmental is headed by Ing. Prof. Francis Attiogbe

I. Undergraduate Programmes:

a. BSc. Civil Engineering

b. BSc. Environmental Engineering

II. Postgraduate Programmes:

a. MSc. Environmental Engineering and Management

b. Ph.D. Environmental Engineering and Management

Staff and Students Statistics

1. Department of Civil and Environmental Engineering

Table 1.1 Students' Statistics

LEVEL	Number of Students	
Program	**Civil Engineering**	**Environmental Engineering**
L100	316	27
L200	158	20
L300	98	19
L400	77	21
TOTAL	**649**	**87**

Table 1.2 Students' Statistics (M.Sc. Environmental Engineering and Management

LEVEL	NUMBER OF STUDENTS
Year 1	10
Year 2	7
TOTAL	17

Table 1.3 Students' Statistics (Ph.D. Environmental Engineering and Management)

LEVEL	NUMBER OF STUDENTS
Year 1	8
TOTAL	8

Table 1.4 Staff Statistics

PORTFOLIOS / DESIGNATION	MALE
Associate Professor	4
Senior Lecturer	2
Lecturers	3
Senior Laboratory Technicians	2
Snr. Administrative Assistant	1
Total	12

2. Earth Observation and Research Innovation Centre(EORIC)

EORIC is a research arm of the University of Energy and Natural Resources (UENR)-Sunyani, responsible for the acquisition of near real-time satellite-based data, air-borne and in-situ data, metadata and products, automatic weather monitoring, operations and management of unmanned aerial systems, virtual regional fire monitoring and modelling, organisation of

training programs in the use of Earth Observation (EO) and Geographic Information Systems (GIS) techniques, collectively towards making informed decisions in the areas of water, disasters, health, energy, climate, agriculture, ecosystems and biodiversity.

Academic Programmes

There is currently an ongoing initiative/MoU between EORIC-UENR and AIMS-Ghana to develop and run the Climate Change Atmospheric Physics (CCAP) Masters Programme. Since both institutions are currently yet to secure funding and also satisfy the necessary accreditation requirements to implement the CCAP independent project, AIMS Ghana has commenced an initiative which involves the enrolment of 10 students with interest in CCAP from the Regular Master's Program in Mathematical Science to pilot the CCAP project. This initiative is being run in partnership with UENR, with the Department of Mathematics and Statistics spearheading this initiative. This initiative's first batch of AIMS students has completed the program.

Professional Short Courses/Training Programs

- Satellite Operation Centre & Teleport Technician Certification
- Satellite Field Technician/ Engineer Certification
- Fundamentals of Accelerated Computing with CUDA C/C++
- Introduction to Computational Fluid Dynamics with OpenFOAM
- Satcom professional certificate short course
- Geospatial analysis with R
- Understanding DVBS2, DVBT2 & DVB-H in satellite technology
- Applied remote sensing for vegetation mapping
- Applied satellite technology for integrated resource management
- Introduction to data analysis with Python
- Introduction to drone flight and data processing
- Introduction to LATEX

The Centre is composed of the following personnel:

1. Ing. Dr. Prince Antwi-Agyei, Head
2. Ms. Yvonne Claire Dumenu, Senior Assistant Registrar
3. Ms Awurama Adane-Ankomah, Senior Administrative Assistant
4. Ing. Dr. Martin Kyereh Domfeh, Senior Research Fellow
5. Dr. Ebenezer K. Siabi, Research Fellow
6. Mr. Francis Kudjo, Research Fellow
7. Mr. Cosmos Senyo Wemegah, Research Fellow
8. Mr. Eric Mortey, Assistant Research Fellow
9. Ms. Precious Opoku Dapaah, Assistant Research Fellow
10. Ing. Nana Ekow Nkwa Sey, Ground Systems Manager
11. Mr. Amprofi Ampah Amproche, GIS & Remote Sensing Analyst
12. Mr. Trinity Quashie Ellogah, Electrical & Electronics Technician
13. Mr. Evans Yaw Adom, Satellite Field Technician

Staff and Students Statistics of EORIC

Core Staff: 13

Interns: 4

3. Department of Mechanical and Manufacturing Engineering

The Department of Mechanical and Manufacturing Engineering of the University of Energy and Natural Resources (UENR) started in the 2013/2014 academic year. It admitted its first batch of seventy-three (73) students that same Academic Year in September 2013.

Academic Programmes

I. Department of Mechanical and Manufacturing Engineering headed by Ing. Dr. Kofi Asamoah Adu-Poku

i. Undergraduate Programmes;

a. BSc. Mechanical Engineering

Staff and Students Statistics

The Department currently has Eight (8) Teaching Staff Members and One (1) Administrator with a student population of Four Hundred and Seventeen (417) for both Regular and Weekend Programmes.

STAFF STATISTICS

S/N	DESIGNATION	NUMBER
1.	Full Professor	0
2.	Associate Professor	0
3.	Senior Lecturer	4
4.	Lecturer	2
5.	Assistant Lecturer	2
6.	Administrator	1
	TOTAL	**9**

STUDENT STATISTICS

LEVEL	Number of students (BSc. Mechanical Engineering)	
	Regular	Weekend
Level 100	134	11
Level 200	71	15
Level 300	65	21
Level 400	71	29
SUB-TOTAL	341	76

TOTAL	417

4. Department of Computer and Electrical Engineering;

The Department of Computer and Electrical Engineering is a vibrant center for technical innovation and academic success. The department's goal is to shape the direction of engineering and technology, focusing on cutting-edge research, teamwork, and creativity.

Academic Programmes;

The Department currently runs two (2) bachelor programmes and diploma course which is currently not active. The table below shows the programs ran by the department.

No	Programme
1.	BSc. Computer Engineering
2.	BSc. Electrical and Electronics Engineering
3.	Diploma in Electrical and Electronics Engineering

The Department has also developed 10 postgraduate programmes, which have all gone through the accreditation process by GTEC and are awaiting the certificate. The MSc/MPhil/PhD in Computer Engineering and the MSc/MPhil/PhD in Electrical Engineering will be offered in the 2025/2026 academic year.

NO	PROGRAMME
1	MSc Software Engineering
2	MSc Information and Communication Engineering
3	MSc Engineering Management
4	MPhil Engineering Management
5	MSc. Computer Engineering
6	MPhil Computer Engineering
7	PhD Computer Engineering
8	MSc Electrical Engineering
9	MPhil Electrical Engineering
10	PhD Electrical Engineering

STAFFING

The following are the administrative staff in the Department of Computer and Electrical Engineering for the 2023/2024 academic year:

S/N	NAME	POSITION
1.	Ing. Prof. Benjamin Asubam Weyori	Head of Department
2.	Ms. Gifty Adede Mensah	Principal Administrative Assistant

Other staff who help in the daily administration of the department's matters are in the table below;

S/N	NAME	POSITION
1.	Mr. Emmanuel Agyepong Nyantakyi	Departmental Exams Officer
2.	Mr. Gidphil Mensah	Departmental Industrial Attachment Coordinator
3.	Mr. Augustine Awaafo	Department Weekend Coordinator

STUDENT POPULATION

Below is a table showing the student population from level hundred 100 to level 400 for the two-degree programmes run by the department;

BSC. ELECTRICAL AND ELECTRONICS ENGINEERING

S/No	LEVEL	PROGRAMME	STUDENT POPULATION
1	Level 100	Electrical and Electronic Engineering	410
2	Level 200	Electrical and Electronic Engineering	256
3	Level 300	Electrical and Electronic Engineering	181
4	Level 400	Electrical and Electronic Engineering	138
TOTAL	**985**		

7.0 WEEKEND PROGRAMME (ELECTRICAL AND ELECTRONICS ENGINEERING)

S/No	LEVEL	PROGRAMME	STUDENT POPULATION
1	Level 200	Electrical and Electronic Engineering	8
2	Level 300	Electrical and Electronic Engineering	31
3	Level 400	Electrical and Electronic Engineering	52
TOTAL	91		

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

S/No	LEVEL	PROGRAMME	STUDENT POPULATION
1	Level 100	Computer Engineering	245
2	Level 200	Computer Engineering	147
3	Level 300	Computer Engineering	87
4	Level 400	Computer Engineering	57
TOTAL			536

TEACHING STAFF

The table below shows the teaching staff of the Department with their names, qualification, designation and area of specialization:

No	Name	Qualification	Designation	Area of Specialization
1	Ing. Prof. Benjamin Asubam Weyori	PhD (KNUST) MPhil (KNUST)	Associate Professor /HoD	Artificial Intelligence, Computer Visions, Quantum Computing, Optical Communication and Wireless Networks
2	Prof. Nana Kwasi Diawuo	(PhD New Castle UK); MSc, BSc (KNUST)	Associate Professor/Post Retirement Contract	Semiconducting Devices, Linear Electronics, VLSI
3	Dr. Tweneboah-Koduah Samuel	PhD (KNUST, Awaiting Graduation) MEng (South Korea) BSc. (KNUST)	Senior Lecturer	5G, Massive MIMO Wireless Communication, Wireless Chanel Modelling, Signal Processing, IoTs
4	Dr.Kankam Adu Okatakyie	PhD (Poland) MSc (London) HND (STU)	Lecturer	Virtual Power Plants and Collaborative Networks, Multi-Agent System Technology and System Dynamics

5	Ing. Isaac Kofi Otchere	MSc. (UAE) BSc. (KNUST)	Lecturer (On study leave)	Electrical Power Quality Enhancement
6	Ing. Andrew Quansah	MSc (London) BSc (KNUST)	Lecturer (On Study Leave)	Microelectronics and wireless systems
7	Mr. Joseph Owusu	MSc (Malaysia) BSc (KNUST)	Lecturer (On Study Leave)	Digital Electronic Design, Embedded Systems, RF Microwave and Antenna Design
8	Mr. Samuel Osei Fobi	MEng (UK) BSc. (KNUST)	Lecturer (On Study Leave)	Electrical Machines/ Drives Control
9	Mr. Kwabena Amoako Kyeremeh	MSc (Milano) BSc (KNUST)	Lecturer (On Study Leave)	Power system optimization and control
10	Ing. Nana Twum Duah	MSc(UK) BSc (KNUST)	Lecturer (On Study Leave)	Electrical Power system Eng./Solar and Wind Energy
11	Mr. John Gyabaah Ansu	MSc (UENR) BSc (KNUST)	Lecturer(On study leave)	Renewable energy and smart grid Power system optimisation
12	Mr. Joshua Dantuo	MSC (KNUST) BSC(UENR)	Assistant Lecturer	Electrical Power Quality, Electrical Machines and Drives, High Voltage Engineering
13	Mr. Emmanuel Agyepong Nyantakyi	MPhil (KNUST) BSc (UENR)	Assistant Lecturer	Power Systems Engineering, Machine Learning, Deep Learning
14	Mr. Awafo Augustine	MPhil (UENR) BSc (UENR)	Assistant Lecturer	Power Generation and Optimization
15	Mr. Gidphil Mensah	MPhil (KNUST) BSc (UENR)	Assistant Lecturer	Energy Systems and Power Systems Analysis

TECHNICIANS

No	Name	Qualification	Designation	Area of Specialization
1	Mr. Frank Ofori	HND Electrical and Electronic Engineering, (STU-Sunyani).		
		BSc Electrical Electronic Engineering, (UENR-Sunyani)	Principal Technician	Power Systems Engineering

2	Mr. Rina Kusi Gyan	BSc Electrical and Electronics Engineering, (KNUST-Kumasi)	Senior Technician	Power Systems Engineering
3	Mr. Awiah	BSc. Electrical and Electronic Engineering, (UENR-Sunyani)	Senior Technician	Power Systems Engineering
4	Mr. Emmanuel Ayerko	Diploma Computer Science, (UENR-Sunyani)	Senior Technician	Computer Systems Engineering
		BSc. Computer Science, (UENR-Sunyani)		

5. Department of Agriculture and Bioresources Engineering;

The Agricultural and Bioresources Engineering Department is one of the newly established Departments that was weaned out from the Department of Mechanical and Manufacturing Engineering in February 2022. The programme being run at the Department is designed to produce the next generation of Agricultural Engineers with the necessary knowledge and skills to provide cutting edge solutions to issues confronting the Agricultural Sector in Ghana. First batch of thirty-seven (37) students were admitted into the Programme in September 2014 in the 2014/2015 academic year under the then Department of Mechanical and Manufacturing Engineering. The total number of students population and the strength of Academic staff stand at Seventy (96) as at July 2025.

Academic Programme(s)

The Department runs BSc. Agricultural Engineering Programme.

Staff and Students Statistics

Table 1.1 Students' Statistics

Level	Number of Students		
	Male	Female	Total
L100	33	13	46
L200	19	3	22
L300	14	5	19
L400	7	2	9
Total	73	23	96

Table 1.4 Staff Statistics

Portfolios / Designation	Number
Associate Professor	1
Senior Lecturer	2

Lecturers	2
Technicians	1
Snr. Administrative Assistant	1

Research Collaborations (Local and International)

- EORIC-UENR, Czech Globe, Czech Republic, and FORIG, Ghana, collaborate to support the establishment of an International Greenhouse Gas and Global Climate Change Research Station (EC Station) in Ghana using the Eddy Covariance Method.
- Co-Principal Investigator - Fire Risk Projection Analysis Methodology project, being implemented in Ghana and Chile by the University
- Research collaborations ongoing on various projects named Team member of REFFECT AFRICA in collaboration with KNUST
- West African Science Service Centre on Climate Change and Adapted Land Use (WASCAL)
- Council for Scientific and Industrial Research (CSIR)
- Kumasi Technical University (KsTU)

Workshops/Conferences/Public Lectures

- October 1-3, 2025, Participant, 2025 International Conference on Energy and Engineering (ICEE'25) under the theme: "Engineering the Future: Smart Innovations for Sustainable Energy, Agriculture, Infrastructure, and Climate Resilience.", RCEES-UENR, Sunyani.
- September 29-30, 2025, PROREG Project Close-Out Meeting at UENR to reflect on the achievements, evaluate project outcomes, share lessons learned, and discuss opportunities for future collaboration on the ProREG Project.
- September 16-18, 2025, Participant, 2025 Biannual Environment Science and Technology (BEST) Forum organized by the Ministry of Environment Science and Technology (MEST) in collaboration with Association of Ghana Industries (AGI), under the theme 'Unlocking Industrial Potential: Strategic Approaches for Ghana's Economic Transformation', La Palm Royal Beach Hotel, Accra.
- August 22, 2025, Participant, Registrar's office monthly presentation series, RCEES UENR.
- June 25, 2025, Participant, EPIC Talks Webinar on "Closing the Loop: The Lens of the Green Economy through the WEF Nexus", held online.
- Chartered Institute of Human Resource Management Conference, Accra, Ghana, 18th-19th June, 2025.
- Field Observation Inputs for Water Accounting of Sustainable Water Management in the Bontanga Irrigation Scheme, IWMI, 11TH June, 2025.
- Erasmus+ International Credit Mobility Programme (KA171), University of Jaen, Spain, 21st-25th, April, 2025.
- January 30, 2025, Participant, 3rd Annual General Meeting and Conference of the Ghana Institution of Engineering (GhIE) – Branch 2 on the theme: "Engineering the

Future of Ghana: The Role of Emerging Technologies and Digital Transformation," held at RCEES-UENR.

- Air Quality Data Analysis Workshop by Afri-SET - Universtiy of Ghana and University of Columbia at UG-Legon from January 27 – 31, 2025.
- December 9, 2024, Participant, EPIC Talks Webinar on "Fostering Collaborative Solutions for Sustainable Development, held online.

- West African School on Air Quality and Pollution Prevention by KNUST and Clean Air Fund from November 4th – 15th 2024.
- Invitation to a One-Day Co-Design Stakeholder Workshop on "Water Accounting for Sustainable Water Management on the Botanga Irrigation Scheme", IWMI, 7th November, 2024.
- Sectoral Webinar Series 2024, "Unlocking AI Computer Vision for Agricultural Farms Sustainability Africa," was held on September 18th, 2024.
- Oasis VSAT training course held at UENR from August 26-30, 2024.
- Ghana GEO Capacity Building Training on Satellite Data: Introduction to Digital Earth Africa Platform was held from 6 to 7 August 2024 (Zoom).
- International Conference on Energy and Engineering under the theme "Engineering Advances in the Energy Transition Space: Innovations, Inclusion, and Impact.", Sunyani, Ghana, organized by School of Energy and Engineering from 30th Sept – 4th Oct, 2024 at UENR. Presented a Paper

Training

- September 8-12, 2025, Physical MOOC Workshop at UENR (IMPRESSION Project) with Project partners from RWTH, Germany, and Polimi, Italy.
- August 26-30, 2024. Certificate of Achievement. Successful completion of Oasis VSAT course held at UENR.
- Training on Eddy Covariance Data Processing and Analyses at EORIC-UENR, July 13, 2025.
-
- June 24, 2025. Participant. Digital Earth Online Training.
-
- May 5-6, 2025, Participant, Trainer of Trainers Workshop on Agile Learning and Teaching. Professional Education for Renewable Energy in Ghana (ProREG), RCEES UENR.
-
- Remote Sensing for Environmental Monitoring, EORIC, 9th -11th April, 2025.
- Essential Administrative Guidelines to Grasp in your day-to-day Work - Presenter, 14th March, 2025
- Enhancing Knowledge, Skills and Policy Awareness, UENR, Sunyani – Participant, 26th-27th March, 2025.
- March 5, 2025, Participant, Workshop on "How to Write a Paper and Get It Published", organised by the Centre for Professional Development (CEPDEV) at RCEES UENR.
- March 13, 2024. Certificate of Participation. Capacity Building Workshop on Research and Grantsmanship held at UENR.
- Air Quality Data Analysis Workshop at (Facilitator) UG from January 27 – 31, 2025.
- West African School on Air Quality and Pollution Prevention by KNUST and Clean Air Fund

from November 4th – 15th 2024

Workshops/Conferences/Public Lectures

1. International Conference on Energy and Environment (ICEE 2025) — "Engineering the Future: Smart Innovations for Sustainable Energy, Agriculture, Infrastructure, and Climate Resilience," held from 1st to 3rd October 2025 at the RCEES Auditorium, University of Energy and Natural Resources (UENR), Sunyani Campus.

2. Samuel Gyamfi and Francis Attiogbe, 2025. Integrating key competences into curriculum development (Sustainability and SCL): sharing experiences of real cases. 2nd Trainer of Trainers Workshop, being organised by the Professional Education for Renewable Energies (ProREG) Project. Regional Center for Energy and Environmental Sustainability (RCEES), UENR, Sunyani. 5th May 2025

3. Francis Attiogbe, 2025. Engaging learners through problem-based learning (PBL) and real-world case studies. Train the Trainers Workshop, being organised by the Professional Education for Renewable Energies (ProREG) Project. Engineering Guest House, KNUST, Kumasi. 3rd & 4th March 2025

4. Francis Attiogbe, 2024. National Tertiary Education Conference under the theme: "Transforming Tertiary Education in Ghana: Dialogue, Policy & Practice" organized by Ghana Tertiary Education Commission (GTEC). Cedi Conference Centre, University of Ghana. 5th – 7th November, 2024

5. Francis Attiogbe, 2024. Didactics, teaching and learning methods: Student-Centred Learning Approach. ImPreSSion Project Dissemination Workshop. RCEES Auditorium, Sunyani, Ghana. 4th September 2024.

6. 2nd International Conference on Energy and Engineering on the theme "Engineering Advances in the Energy Transition Space: Innovation, Inclusion and Impact" at RCEES-UENR from 1st to 3rd October, 2025.
7. Orientation and Training for Deans, Directors, HOD's and Centre Heads from Wednesday, 24th to Friday, 26th September 2025 at RCEES Auditorium, UENR, (Online)
8. Launch of the GhIE ADR Centre & E-Library at GhIE Conference Room/ADR Centre, Roman Ridge on Thursday, 25th September 2025 from 2pm to 6pm.
9. First Stakeholder meeting – 6th Africa Sustainability Report/Think Energy Awards 2025 at Accra Hotel, 10th September 2025
10. 4th Transformational Dialogue on Small Scale Mining on the theme "Eliminating Illegal Mining in Ghana – The Will and the Bill" organized by UENR at Sheila's Executive Lodge, Sunyani, between 7th and 8th May, 2025.
11. 55th Ghana Institution of Engineering Annual General Meeting and Conference on the theme 'Urbanization and Smart Cities: Engineering the Future of Ghana' at Movenpick Ambassador Hotel, Accra-Ghana between 25th March to 28th March 2025
12. Nationwide Capacity Building Training Workshop on Cyber Security, E-Procurement, E-Commerce, Health and Safety, ICT organized by the Ghana Chamber of Construction Industry

at the Presbyterian Guest House, Adum-Kumasi from 17th and 21st March 2025.

13. October 1-3, 2025, Participant/Presenter, 2025 International Conference on Energy and Engineering (ICEE'25) under the theme: "Engineering the Future: Smart Innovations for Sustainable Energy, Agriculture, Infrastructure, and Climate Resilience.", RCEES-UENR, September 16-18, 2025, Participant, 2025 Biannual Environment Science and Technology (BEST) Forum organized by the Ministry of Environment Science and Technology (MEST) in collaboration with Association of Ghana Industries (AGI), under the theme 'Unlocking Industrial Potential: Strategic Approaches for Ghana's Economic Transformation', La Palm Royal Beach Hotel, Accra.
14. January 30, 2025, Participant, 3rd Annual General Meeting and Conference of the Ghana Institution of Engineering (GhIE) – Branch 2 on the theme: "Engineering the Future of Ghana: The Role of Emerging Technologies and Digital Transformation," held at RCEES-UENR.
15. Participant - 2024 UNC Water and Health Conference, October 14-18, 2024, Friday Center, Chapel Hill, North Carolina, United States of America.
16. August 26-30, 2024. Certificate of Achievement. Successful completion of Oasis VSAT course held at UENR.
17. Capacity building program in E-procurement, E-commerce, cyber security, ICT, and health and safety. Organised by the Ghana Chamber of Construction Industry on 16-19 March 2025 at Kumasi
18. GhIE Branch 2 3rd AGM and conference at the University of Energy and Natural Resources on 30 January 2025
19. 2nd International Conference on Energy and Engineering at the University of Energy and Natural Resources on 1 – 3 October 2025
20. Trainer of Trainer workshop on Agile Learning and Teaching under the Professional Education for Renewable Energy in Ghana (ProREG) project at the University of Energy and Natural Resources on 5 – 6 May 2025
21. Construction Law Seminar 2025
22. 2nd Postgraduate Research Conference at AAMUSTED-Kumasi

Proposals

1. 2025 - Strengthening Climate Security through Community-Led Extreme Weather Early Warning Systems. African-European call for proposals "Climate Services for Risk Reduction in West Africa" (CS4RRA) (Under review).
2. 2025 - Accelerating Climate-Smart Technology-Enabled Agricultural Transformation in Ghana and Côted'Ivoire. African-European Call for Proposals "Climate Services for Risk Reduction in West Africa (CS4RRA)"

3. Prediction of water quality downstream of illegal mining in Ghana with Earth Observation (GoldenEye) submitted in response to the call by ESA EO AFRICA R&D Facility in collaboration with the African Union Commission (AUC) (Unsuccessful).

4. A GIS-based technique for wildfire likelihood in a typical national park: A case study of the Mole National Park, Ghana submitted in response to Agate Project Researcher Grant (Unsuccessful).

5. Wellcome grant application to Direct call - Climate mitigation solutions in LMICs – Prelim: Unsuccessful

6. African-European call for proposals “Climate Services for Risk Reduction in West Africa” (CS4RRA) (Under review).

7. Feasibility analysis for a proposed off-grid Renewable Energy building at the University of Energy and Natural Resources, under consideration.

GSDF CONCEPT NOTE APPLICATION

Proposed project title: Center of Excellence for Biogas and Solar Technologies (CEBS-TECH) Project (Ongoing)

- Professional Satellite Communications (SATCOM) Certification Programme under CTVET/ GSDF
- Fire Risk Projection Analysis Methodology, 11th June 2025.
- Bia-Tano Carbon Monitoring Project-University of Energy and Natural
- Resources (UENR) and the Global Change Research Institute in the Czech
- Republic.

Grant and Awards

1. Secured Two Hundred and Forty Thousand Cedis (Gh240,000.00) from institutions and companies towards the 2nd International Conference on Energy and Engineering between 1st and 3rd October, 2025 at RCEES Auditorium, UENR.
2. Co-Principal Investigator - Fire Risk Projection Analysis Methodology – Pilots in Chile and Ghana, has been funded by the NOVASPHERE with a grant of $30,000. The project is being implemented in Ghana and Chile by the University of Energy and Natural Resources (UENR) through its Climate Action Incubation Centre (CAIC) and the Earth Observartion Research and Innovation Centre (EORIC), in collaboration with the Pontifical Catholic University of Valparaíso (Chile), the Global Methane Hub, and other partners. The objective is to develop a scientific tool for assessing and managing fire risks in landfills and dumpsites under varying climatic and operational conditions.
3. Member - GHS 2,098,812.69 grant won from CTVET/GSDF for developing a Professional Satellite Communications (SATCOM) Certification Course designed to equip engineers, technicians, and entrepreneurs with the necessary knowledge and skills to excel in the ever-evolving SATCOM and telecommunications sector. Project was implemented by EORIC
4. GHS 2,098,812.69 grant won from CTVET/GSDF for developing a Professional Satellite Communications (SATCOM) Certification Course designed to equip engineers, technicians, and entrepreneurs with the necessary knowledge and skills to excel in the ever-evolving SATCOM and telecommunications sector.
5. €23.961,34 grant successfully won from the Spanish National Research Counsil (CSIC), AI-Driven Evapotranspiration Monitoring for Improving Water Resource Management in DataScarce Regions: Evidence from Agroclimatic Zones in Spain, Egypt, and Ghana.
6. €30.000 research grant won from European Space Agency and African Union, Satellite-based Water Assessment for Holistic Integrated Lake Information (SWAHILI) project.
7. Fire Risk Projection Analysis Methodology – Pilots in Chile and Ghana, has been funded by the

NOVASPHERE with a grant of $30,000.

8. Name of Project: Renewable energies for Africa: effective valorization of agri-food wastes (REFFECT Africa Project)

- Funding Agency: European Commission
- Grant Amount: EUR 731,667.50
- Implementation Period: 2021 to 2026

Publications (2024/2025 Academic Year)

1. Department of Civil and Environmental Eng.;

- Staff of the Department of Civil and Environmental Engineering produced 42 Publications for the year under review.

2. Department of Mechanical and Manufacturing Eng.;

Dr. Felix Uba

- Yemoh, O. O., Opoku, R., Takyi, G., Adomako, E. K., Uba, F., & Obeng, G. (2024). Green building adaptation in hot-humid climates: assessment of coconut and corn husk fiber composite bricks as energy-efficient building envelopes. International Journal of Building Pathology and Adaptation.

- Baah, B., Opoku, R., Boahen, S., Sekyere, C. K., Uba, F., Davis, F., & Obeng, G. Y. (2024). Analysis and hypothesis testing of redundant energy of solar home systems without net-metering. Renewable Energy, 220, 119736.

Kofi Asamoah Adu-Poku

- Zhao, F.F., Adu-Poku, K.A., Xu, Z.X., Xu, R.H., Zhang, H. and Zhang, F., 2024. Structural dynamic characteristics analysis of a mixed-flow pump based on fluid–structure coupling. AIP Advances, 14(1). SCI.
- Bai, Y., Adu-Poku, K.A., Appiah, D., and Chen, K., 2024. Influence of Blade Tip Cutting on the Flow Loss Characteristics of Side Channel Pump. AIP Advances, 2024. SCI.
- Otoo, D., Mensah, K., Adu-Poku, K.A., Gyamfi, D., Danquaah, B.A. and Adusei, H., 2024. Dynamic Characterization of Parametric Structures and Perturbation Analysis of Blood Flow in the Cranial Arteries. Journal of Fluid Flow, 11.
- Yu, Y., Appiah, D., Zulu, B. and Adu-Poku, K.A., 2024. Integrating Rural Development, Education, and Management: Challenges and Strategies. Sustainability, 16(15), p.6474. SCI.

Eric Osei Essandoh

- • Gilbert Ayine Akolgo, Francis Kemausuor , Eric Osei Essandoh, Thomas Atta-Darkwa ,Ato Bart-Plange and Claudia Maria Branco de Freitas Maia (2024). Design, fabrication and performance evaluation of a multi-feed gasifier stove for low-income earners in Ghana, Cogent Engineering, Vol. 11, No.1, 2366019

3. Department of Computer and Electrical Eng.;

- Staff of the department produced the following refereed journal articles, and conference papers;

Ing. Prof. Benjamin Asubam Weyori

1. 1. Karim-Abdallah, B., Weyori, B.A., Mensah, P.K. (2025). Using LMS Log Data to Identify At-Risk Students: A Systematic Review Of Machine Learning Approaches And Bibliographic

Analysis, African Journal of Applied Research, Vol. 11, No. 2, DOI: https://doi.org/10.26437/ajar.v11i2.1038

2. Pokuaa, H.A., Adekoya, A.F., Weyori, B.A., Nyarko-Boateng, O. (2024). Patch-and-amplify Capsule Network for the recognition of gastrointestinal diseases, Scientific Africa, DOI: 10.1016/j.sciaf.2024.e02277
3. Cletus, A., Opoku, A.A., Weyori, B.A. (2024). An Evaluation of Current Malware Trends and Defense Techniques: A Scoping Review with Empirical Case Studies, Journal of Advances in Information Technology, 15(5), pp. 649–671, DOI: 10.12720/jait.15.5.649-671
4. Pokuaa, H.A., Adekoya, A.F., Weyori, B.A., Nyarko-Boateng, O. (2024). DPafy-GCaps: Denoising patch-and-amplify Gabor capsule network for the recognition of gastrointestinal diseases, Turkish Journal of Electrical Engineering and Computer Sciences, 32(3), pp. 452–464, DOI: 10.55730/1300-0632.4080
5. Affum, E.A., Tweneboah-Koduah, S., Antwi, O.A., Weyori, B.A., Ofosu, W. (2024). Large-Scale MIMO Transmitters for CR-NOMA in Fixed Physical Space: The Effect of Realistic System Impairments Using Stochastic Geometry, IEEE Open Journal of Vehicular Technology, 5, pp. 907–926, DOI: 10.1109/OJVT.2024.3425061

1. Dr. Samuel Tweneboah-Koduah

Research Activities/Interests

- Nanotechnology application for the provision of renewable clean energy
- Communication systems-Power usage of wireless sensor networks
- Microcontroller and Embedded Systems and Application
- 5G, NOMA, IoT, and Routing in MANET and MANET Applications.
- Funding of Research Activities
- Massive MIMO Communication Channel modelling for RIS systems

Recent Publication (s)

Affum, E. A., Tweneboah-Koduah, S., Antwi, O. A., Weyori, B. A., & Ofosu, W. (2024). Large-scale MIMO Transmitters for CR-NOMA in Fixed Physical Space: The Effect of Realistic System Impairments Using Stochastic Geometry. IEEE Open Journal of Vehicular Technology.

4. Earth Observation and Research Centre(EORIC);

- Staff of EORIC produced the following refereed journal articles, and conference papers;

1. Siabi, E. K., Kabo-Bah, A. T., Anornu, G., Akpoti, K., Mortey, E. M., Incoom, A. B. M., & Yeboah, K. A. (2025). Future land use simulation modeling for sustainable urban development under the shared socioeconomic pathways in West African megacities: Insights from Greater Accra Region. Journal of Environmental Management, 376, 124300.

2. Kabo-Bah, A. T., Cobbina, N. A., Siabi, E. K., Siabi, S. E., & Ahiada, W. B. (2025). Flood projections over the White Volta Basin under the shared socioeconomic pathways: an analytical hierarchical approach. Frontiers in Climate, 7, 1564665.

3. Incoom, A. B. M., Adjei, K. A., Odai, S. N., Siabi, E. K., Donkor, P., & Frimpong, K. (2025). Adaptation strategies by smallholder farmers to climate change and variability: The case of the

savannah zone of Ghana. Sustainable Futures, 9, 100543.

4. Bansah, K. J., Acquah, P. J., Boafo, A., Siabi, E. K., Owusu, L., Mensah, S. K., ... & Akoto-Domey, J. E. (2025). Fighting fire with fire: How military actions expand environmental destruction in informal mining. The Extractive Industries and Society, 24, 101712.

5. Mensah, S. K., Nyantakyi, E. K., Mensah, G. S., Siabi, E. K., Ackerson, N. O. B., Antwi-Agyei, P., ... & Vuu, C. (2025). Assessing the environmental and socio-economic impacts of small-scale mining activities in the Atiwa East District of Ghana. Scientific African, 27, e02542.

6. Siabi, E. K., Donkor, P., Sieh, M. K., Frimpong, K., Mensah, S. K., Siabi, S. E., & Vuu, C. (2025). Factors influencing accidents and injuries in the artisanal and small-scale gold mining industry in Ghana: A case of Adadiem in the Jaman North district of Ghana. Heliyon, 11(12).

7. Donkor, P., Siabi, E. K., Mensah, S. K., Frimpong, K., Vuu, C., Nyantakyi, E. K., ... & Boachie-Ameyaw, A. (2025). Informal artisanal and small-scale mining in sub-saharan Africa: Policy evolution, sector formalization, and future trajectories. Resources Policy, 109, 105698.
8. Mensah, S. K., Nyantakyi, E. K., Mensah, G. S., Siabi, E. K., Ackerson, N. O. B., Antwi-Agyei, P., ... & Siabi, S. E. (2025). Assessing the impact of small-scale mining activities on land use land cover and the sustainability of mining practices in Ghana: A case of the Atiwa East district. Resources Policy, 109, 105719.

9. Adu-Poku, A., Siabi, E. K., Otchere, N. O., Effah, F. B., Awafo, E. A., Kemausuor, F., & Yazdanie, M. (2024). Impact of drought on hydropower generation in the Volta River basin and future projections under different climate and development pathways. Energy and Climate Change, 5, 100169.

10. Siabi, E. K., Adu-Poku, A., Otchere, N. O., Awafo, E. A., Kabo-Bah, A. T., Derkyi, N. S., ... & Yazdanie, M. (2024). Flood risk assessment under the shared socioeconomic pathways: a case of electricity bulk supply points in Greater Accra, Ghana. Discover Water, 4(1), 76.

11. Yankey, K.K., Nyantakyi, E.K., Kabo-bah, A.T., Domfeh, M.K., Antwi-Agyei, P., Andoh, R., Ackerson, N.O.B., Yeboah, S.I.I.K., Minkah-Amankwah, A. and Atta-Darkwa, T., (2025). Green roof as flood mitigation in Ghana. Natural Hazards, 1-22.

12. Addai, G. O., Ofosu, E. A., Domfeh, M. K., Wusah, R. B., Agyemang-Boakye, B., & Yankey, B. E. (2025). Potential for small hydropower development in the Tano River Basin of Ghana using SWAT and RETScreen. Energy for Sustainable Development, 86, 101720.

13. Awuah, S.K.O., Nyantakyi, E.K., Appiah-Adjei, E., Ackerson, N.O.B., Yeboah, S.I.I.K., Borkloe, J.K., Domfeh, M.K., Siabi, E.K., Wezenamo, C.A., Owusu, M. and Adu-Tutu, F (2024). Assessment of Health Impacts of Rock Blasting Activities on Ntotoroso and Gyedu Communities, Ahafo Region, Ghana. Transactions of the Indian National Academy of Engineering, 1-12. https://doi.org/10.1007/s41403-024-00485-4

14. Agyemang-Boakye, B., Ofosu, E. A., Domfeh, M. K., Dekongmen, B. W., Koduah, R. T., Bakuri, R. W., & Kpiebaya, P. (2024). Potential for small hydropower development on the Pumpum River of Ghana using Remote Sensing and Soil Water Assessment Tool. Green Technologies and Sustainability, 2(1), 100063.

15. Rogers, J. K., Diawuo, F. A., & Domfeh, M. K. (2024). Assessing Peak Load Reduction Potential on Distribution Network: A Case Study of Residential Households in Freetown, Sierra Leone. International Journal of Energy Research, 2024(1), 5587946.
16. Wemegah, C. S., Yamba, E. I., Quansah E., & Nyantakyi E. K. (2025). Evidence of Heatwaves: Characteristics and Trends in Selected Ghanaian Cities. International Journal of Climatology 45(10) (https://doi.org/10.1002/joc.8889)

17. Adjei, M. K., Yamba E. I., Tuholske C., Wemegah, C. S. (2025. Assessing heat-related health risk in Ghana using bioclimatic indices. Scientific African (https://doi.org/10.1016/j.sciaf.2025.e02926)

5. Department of Agricultural and Bioresources Engineering;

- **The Department produced four (4) Refereed Journal Articles for the year under review.**

Community Engagements

1. 15th October 2025 to Present: Member, Bono Regional Tender Review Committee (RTRC)
2. October 2025: Panel Member, Engineering Professional Examination of GhIE (Technical Review and Oral via Virtual means
3. August 2025: Panel Member, Engineering Professional Examination of GhIE (Technical Review and Oral via Virtual means
4. May 2025: Panel Member, Engineering Professional Examination of GhIE (Technical Review and Oral via Virtual means
5. October 2024: Panel Member, Engineering Professional Examination of GhIE (Technical Review and Oral via Virtual means
6. August 2024: Panel Member, Engineering Professional Examination of GhIE (Technical Review and Oral via Virtual means
7. May 2024: Panel Member, Engineering Professional Examination of GhIE (Technical Review and Oral via Virtual means

Community Engagement - EORIC

The Centre, in collaboration with partners, industry stakeholders, and beneficiaries, held a stakeholder workshop on the Professional SATCOM course at Shiela's Executive Lodge, Sunyani, on August 16, 2024.

Visits

- The Centre hosted Prof. Ing. Michal V. Marek, of Czech Globe, Brno (czechglobe) and also an adjunct Professor at UENR from 24th to 28th March, 2025.

- A delegation from the Czech Embassy in Ghana, led by His Excellency Pavel Bílek, the Ambassador, along with Mr. Matěj Denk, Deputy Head of Mission, and Ms. Beata Matusiková, Head of the Economic and Trade Section, paid a working visit to the Earth Observation Research & Innovation Centre (EORIC) at the University of Energy & Natural Resources (UENR) in Sunyani on Wednesday, August 21st, 2024.

Community Engagements
Department of Agricultural and Bioresources Engineering;
- Thomas Atta- Darkwa- Technical Officer, Kosmos Innovation Centre (KIC) Agritech Challenge, 2023-2028

Future Plans of the School of Engineering
1. Department of Civil and Environmental Engineering;
1. Develop and run the following postgraduate programmes:
- MPhil/Ph.D. in Hydrology & Water Resources Management
- MPhil/Ph.D. in Public Health Engineering

2. Functioning laboratory with basic equipment and chemicals to carry out basic department program activities.

2. EORIC
- There are plans to run the following specialised programs in the future:

1. BSc/MSc/MPhil/ Space Studies
2. BSc/MSc/MPhil/ PhD Space Science
3. BSc/MSc/MPhil/ PhD Space Engineering
4. MSc/PhD Computational Fluid Dynamics
5. Diploma in Satellite Communications Engineering

3. Department of Mechanical and Manufacturing Engineering;
The Department wishes to introduce new Undergraduate and Postgraduate Programmes respectively;
- BSc. Materials Engineering
- MSc/MPhil/Ph.D. Mechanical Engineering

4. Department of Computer and Electrical Engineering;
The Department also plans to introduce additional programs alongside the current ones to align with student interests and societal needs, and to ensure that the Department remains relevant and competitive. Currently, the programmes listed below are being developed by the Department to meet accreditation standards and student and market demand standards. The programmes are;

- BSc Telecommunication Engineering
- BSc Biomedical Engineering

5. Department of Agricultural and Bioresources Engineering;
1. Develop and run the following postgraduate programmes:
- MSc. Food Process Engineering

SCHOOL OF ARTS AND SOCIAL SCIENCES

SCHOOL OF ARTS AND SOCIAL SCIENCES

INTRODUCTION

TThe School of Arts and Social Sciences (SASS) was established in the academic year 2018/2019, initially operating under the name School of Management Sciences and Law at the University's main campus in Sunyani. In the academic year 2020/2021, the School was restructured and renamed to reflect its broader academic focus and alignment with the University's strategic direction.

The mandate of the school is to provide intellectual and practical training that equips students with the knowledge, skills, and entrepreneurial mindset necessary to establish their own enterprises or contribute effectively to existing organizations.

In addition, the School plays a vital role in supporting the University's undergraduate population by enhancing their proficiency in English and French language and communication skills.

The School comprises two academic departments and a center, namely:

- Department of Entrepreneurship and Business Sciences
- Department of Languages and General Studies
- Centre for Entrepreneurship and Business Incubation (CEBI)

ACADEMIC PROGRAMMES

1. Department of Entrepreneurship and Business Sciences headed by Dr. Paul Adjei Kwakwa.

i. Undergraduate Programmes:

- Bachelor of Science (BSc.) Entrepreneurship and Business Sciences
- Bachelor of Science (BSc.) Economics
- Bachelor of Science (BSc.) Accounting

2. Department of Languages and General Studies headed by Dr. Amos Apraku.

i. Undergraduate Programme

- Bachelor of Arts (B.A) Professional French (pending GTEC Approval).

ADMINISTRATION OF THE SCHOOL

The School Administration is constituted by the following personnel:

Assoc. Prof. Emmanuel Opoku Marfo	Dean
Dr. Kusi Boachie Yiadom	School Registrar
Ms. Mabel Ntadiem Annan	Snr. Administrative Assistant

STUDENTS STATISTICS

The School currently has a student population of 1002. The enrollment figures are given in the table below.

STUDENTS STATISTICS

COURSE/LEVEL	MALE	FEMALE	TOTAL
BSC			
LEVEL 100	83	85	168
LEVEL 200	87	94	181
LEVEL 300	84	90	174
LEVEL 400	114	83	197
Total			720
BSC. ECONOMICS			
LEVEL 100	71	42	113
LEVEL 200	30	14	44
LEVEL 300	24	14	38
LEVEL 400	-	-	-
Total			195
BSC. ACCOUNTING			
LEVEL 100	31	26	57
LEVEL 200	21	11	32
Total			89
GRAND TOTAL	545	459	1,004

DEPARTMENT OF ENTREPRENEURSHIP AND BUSINESS SCIENCES

INTRODUCTION

The Department of Entrepreneurship and Business Sciences was established in August, 2016. The Department currently runs three programmes: A four-year Bachelor of Science programme in Resource Enterprise and Entrepreneurship, a four-year Bachelor of Science programme in Accounting, and a four-year Bachelor of Science programme in Economics. The Department seeks to develop students analytical and research abilities as well as equipping them with entrepreneurial skills, and practical and theoretical knowledge in Economics so as to be able to solve socio-economic problems.

ACADEMIC PROGRAMMES

The Department of Entrepreneurship and Business Sciences was established in August, 2016. The Department seeks to develop students analytical and research abilities as well as equipping them with entrepreneurial skills, and practical and theoretical knowledge in Economics, and Accounting so as to be able to solve socio-economic problems. The Department currently runs three undergraduate programmes:

b. BSc Resource Enterprise and Entrepreneurship
c. BSc Economics
d. BSc Accounting

Under the year of review, comments from GTEC on our proposed post graduate programmes MBA, MPhil and PhD in Business Sciences which were assessed and comments are addressed and sent to GTEC pending their accreditation.

The department has started the internal accreditation process for PhD in Economics and MSc in Regulatory and Policy Economics. Comments received from the Graduate School have been addressed to facilitate sending to GTEC.

STAFF DEVELOPMENT

The year under review has one (1) Senior lecturer who has been promoted to Associate Professor and two (2) other lecturers promoted to the position of senior lecturers while two applications were received for the promotion from Senior Lecturer to Associate Professor. In addition, two lecturers obtained PhD in their respective fields of specialization.

RESEARCH

The department continues to champion research and promotion. To boost the research capacity of members of Staff of the department a day training/research seminar on conducting a bibliometric review was organized for School. This was well participated by Lecturers, Research Assistants and National Service Personnel in the department. The research output of faculty members for the year was about 30 articles and book-chapter publications. This averages almost 3 publications per member.

STAFF STATISTICS

The Department has three Professors, four Senior Lecturers, six Lecturers, one Senior Research Assistant and one Principal Administrative Assistant as indicated below;

NAME	QUALIFICATION	DESIGNATION	AREA OF SPECIALIZATION
Professor Yaw Ofosu Kusi	PhD in Applied Social Studies	Professor	Applied Social Studies
Professor Kwamina Panford	PhD Law & Public Policy	Professor	Law & Public Policy
Professor Emmanuel Opoku Marfo	PhD Management Science and Engineering	Associate Professor	Corporate finance and sustainability
Dr. Emmanuel Adu Boahen	PhD in Policy Analysis	Senior Lecturer	Development Economics
Mr. Reginald Djimatey	MBA, BA	Senior Lecturer	Entrepreneurial Education, Small Business Financing, Creativity

Dr. Paul Adjei Kwakwa	PhD Economics	Senior Lecturer	Energy and Environmental Economics
Mr. Paul Hammond	MBA Finance, B.Ed., ICAG	Senior Lecturer	Accounting, Entrepreneurial Finance, Taxation
Dr. David Boohene	PhD Development Economics	Senior Lecturer	Human capital Development
Dr. Genevieve Gyasi	PhD Finance, M.Phil. Finance	Lecturer	Finance
Dr. Daniel Berko	PhD Finance, MBA Finance, B. Com	Senior Lecturer	Micro Finance, Financial Management, Emerging Issues in Finance
Mr. Edmond Amissah	M.Phil. Accounting	Lecturer	Financial reporting and Auditing
Mr. Michael Ayikwei Quarshie	MCom (UCC), B.Ed. (UCC)	Lecturer	Financial and Management Accounting, Accounting Education and Business Management
Dr. Justice Boateng Dankwah	PhD Entrepreneurship & Small Business Mgt., M.Phil. Marketing, BSc. Business Administration	Senior Lecturer	Marketing
Mr. George Nii Amon Dsane	B Com.	Principal Administrative Assistant	

WORKSHOPS/CONFERENCES/PUBLIC LECTURES

Members participated in a number of local, national and international

ASSOC. PROF. EMMANUEL OPOKU MARFO

1. Corporate Governance and Fraud Management Workshop, organized by Bank of Ghana, June 11, 2025 at NODA Hotel, Kumasi
2. Risk Management Framework and Anti Money Laundry Training, organized By Apex Bank/ Association of Rural Bank, June 24, 2025 at Rosapearl Hotel, Kumasi
3. A two-day CAPACITY BUILDING ON RESEARCH PROCESS organized by the Department of Languages and General Studies, UENR, August 22, 2025 at RCEES, UENR, Sunyani.
4. Marfo, E. O, Amoah, J, Amoako, K.O, & Opoku Marfo, K. (2025). Success Factors Driving

Sustainability in Small and Medium Enterprises: A Bibliometric and Systematic Literature Review Approach. Theme: Advancing Sustainable Futures through Environment, Health, ICT, and Food Security: The Role of Emerging Scientists: The 2nd hybrid version of the International Conference on Science, Technology and Health Innovation for Sustainable Development, STHISD International Conference, UENR- RCEES, GHANA, 20-22 August 2025. programmes.

DR PAUL ADJEI KWAKWA

1. BREAD-IGC Virtual PhD Course on Environmental Economics, 2024
2. Sackey, E. K., Kwakwa, P. A., Ansah, M. O., & Derkyi, M. A. A. (2025). Modeling farmer decisions for teak plantation participation in carbon markets: evidence from Ghana. A paper presented during the Second Edition of International Conference on Science, Technology, and Health Innovation for Sustainable Development (STHISD), organized by the School of Science on August 20-22, 2025UENR, at RCEES, UENR, Sunyani.
3. A two-day CAPACITY BUILDING ON RESEARCH PROCESS organized by the Department of Languages and General Studies, UENR, August 22, 2025 at RCEES, UENR, Sunyani
4. Carbon Dioxide Removal (CDR) and Solar Radiation Management (SRM)Workshop held on Thursday, 13th – Friday, 14th June, 2025 held at RCEES, UENR Sunyani.
5. P.A. Kwakwa (2024). Addressing Energy Poverty in Africa: The Role of Institutional Quality, Trade Openness, and Financial Development in Enhancing Access to Clean Fuels and Technologies. A paper presented at the International Conference on Energy and Engineering, on September 30-October 4, 2024 at the University of Energy and Natural Resources, Ghana

PUBLICATIONS (FOR THE YEAR UNDER REVIEW)
PROF. EMMANUEL OPOKU MARFO

1. Marfo, E.O., Amoako, K.O., Arthur, J.L. and Yankey, N. (2024), "Sustainability dimensions in the mission, vision and value statements of the largest corporations in Ghana: a sectoral analysis", International Journal of Law and Management, Vol. ahead-of-print No. ahead-of-print. 1754-243X, https://doi.org/10.1108/IJLMA-08-2023-0169
2. Marfo, E . O. (2024) Mechanisms and initiatives of corporate social responsibility behaviours in Ghana: a co-integration approach, Cogent Business & Management, 11:1, 2312580, DOI:10.108 0/23311975.2024.2312580

3. Adjei, W . O., Asabi, J., Marfo, E. O., Kwakwa, P., & Maabobrkor, J. A. N. (2024), State of Green Management Practices in Public Sector Institutions in the Bono Region of Ghana. Texila International Journal of Academic Research, ISSN: 2520-3088, DOI: 10.21522/ TIJAR.2014.11.03.

DR. PAUL ADJEI KWAKWA

1. Kwakwa, P. A. (Ed). (2025). Financial sector development and pandemics in an era of sustainable development goals. Nova Science Publications
2. Kwakwa, P. A., & Mantey, K. A. (2025). Natural resource rent, financial development, mobile technology, and corruption control: Do they boost the attainment of SDG 7 in Africa? The International Journal of Sustainability Policy and Practice, 21(2), 153–184. https://doi. org/10.18848/2325-1166/CGP/v21i02/153-184
3. Kwakwa, P. A. (2025). Carbon emissions and ecological footprint effects of economic growth and natural resources in Ghana: implications for environmental sustainability. Management &

Sustainability: An Arab Review. Vol. ahead-of-print No. ahead-of-print https://doi.org/10.1108/MSAR-04-2025-0112
4. Kwakwa, P. A. (2025). Tax revenue mobilization in Ghana: the role of electricity crises, carbon dioxide emissions, mobile technology and trade openness. Journal of Economic and Administrative Sciences. Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/JEAS-06-2024-0176
5. Nnindini, S. I., Mensah, K., Dankwah, J. B., & Kwakwa, P. A. (2025). Revisiting the voter as consumer analogy: an examination of Ghanaian voters decision-making process. Cogent Social Sciences, 11(1), 2488123.
6. Akosikumah, E. A., Alhassan, H., & Kwakwa, P. A. (2025). Improving farm households' economic status to address food security in Ghana: the role of Participation in nonfarm activities. Heliyon.
7. Adjei-Mantey, K., Kwakwa, P. A., & Ankrah, E. (2025). Access to clean energy in Africa revisited: The roles of women empowerment, corruption control, FDI and sectoral growth. PloS one, 20(2), e0317781.
8. Mesu-Antwi, B., Derkyi, M. A. A and Kwakwa, P. A. (2025). Demographic factors that influence youths' engagement in the cocoa production related activities as a business venture in the Asunafo North Municipal of Ghana. Journal of Entrepreneurship and Management, 14 (1) 2025, 17-31
9. Kwakwa, P. A., Alhassan, H., & Addaney, M. (2025). Electricity conservation behavior in the African youth. In Elgar Encyclopedia of Energy Economics (pp. 111-114). Edward Elgar Publishing.
10. Kwakwa, P. A. (2025). Foreign Direct Investment and ICT: Catalysts for a Low Carbon Economy in Africa? In Nexus of Environmental Quality and Technology Innovation (pp. 211-230). IGI Global Scientific Publishing.
11. Dankwah, J. B., Kwakwa, P. A., & Ibrahim Nnindini, S. (2024). Why did I buy this? Examining the relationship between consumer ethnocentrism, celebrity endorsement and post-purchase regret. Cogent Business & Management, 11(1), 2381865.
12. Powanga, L., & Kwakwa, P. A. (2024). Determinants of carbon emissions in Kenya and policy implications. Journal of Environmental Management, 370, 122595.

DR. DANIEL BERKO

1. Oppong, P. K., Oppong Mensah, N., & Berko, D. (2025). Word-of-mouth and willingness to pay (WTP) price premium: Mediating role of herbal brand credibility and brand trust in Ghana. Journal of African Business, 26(1), 47-64.

DR. JUSTICE BOATENG DANKWAH

1. Nnindini, S. I., Mensah, K., Dankwah, J. B., & Kwakwa, P. A. (2025). Revisiting the voter as consumer analogy: an examination of Ghanaian voters decision-making process. Cogent Social Sciences, 11(1), 2488123.
2. Boahen, E. A., Dankwah, J. B., & Kwakwa, P. A. (2024). Years of entrepreneurs' schooling and business performance nexus: evidence from an emerging economy.

MR. PAUL HAMMOND

1. Adu Boahen, E., Hammond, P., & Kwakwa, P. A. (2024). Returns to education in Ghana: the role of education of one's father. Heliyon. 10(24) e37805

MR. MICHAEL AYIKWEI QUARSHIE

1. Quarshie, M. A., Debrah, D., & Djimatey, R. (2025). Enhancing cash management practices in SMEs Through ICTs: Insights from Ghana. Sustainable Education and Development, Springer Nature.
2. Amoah, J., Quarshie, M. A., Djimatey, R., & Asumah, S. (2025). Harnessing Intrapreneurial Orientation and Employee Commitment to Drive Small Business Performance: Organisational Culture's Mediating Role in Emerging Economies, Sustainable Education and Development, Springer Nature.
3. Quarshie, M. A., Djimatey, R., Akhtar, S. & Nawaah, D. (2025). Maximizing financial efficiency through technological synergy: Unleashing ICT for enhanced cash management in SMEs, Journal of the International Council for Small Business, DOI: 10.1080/26437015.2025.2461025
4. Quarshie, M.A., Akhtar, S. & Nawaah, D. (2025). Barriers to breakthroughs: the crucial role of support services in advancing accounting practices, financial literacy and performance in disability-led SMEs. Qual Quant. https://doi.org/10.1007/s11135-024 -02050-1

MR. REGINALD DJIMATEY

1. Quarshie, M. A., Debrah, D., & Djimatey, R. (2025). Enhancing cash management practices in SMEs Through ICTs: Insights from Ghana. Sustainable Education and Development, Springer Nature.
2. Amoah, J., Quarshie, M. A., Djimatey, R., & Asumah, S. (2025). Harnessing Intrapreneurial Orientation and Employee Commitment to Drive Small Business Performance: Organisational Culture's Mediating Role in Emerging Economies, Sustainable Education and Development, Springer Nature.
3. Quarshie, M. A., Djimatey, R., Akhtar, S. & Nawaah, D. (2025). Maximizing financial efficiency through technological synergy: Unleashing ICT for enhanced cash management in SMEs, Journal of the International Council for Small Business, DOI: 10.1080/26437015.2025.2461025
4. Community Engagements:

ASSOC. PROF. EMMANUEL OPOKU MARFO

» Commissioner, National Development Planning Commission (NDPC) 2021-2024
» Chairman, Board of Directors, Nsoatreman Rural Bank Plc 2024-2030
» Council Member, Association of Rural Banks – Ghana 2024-2026
» Board Member, Yamfo Allied Health Training College 2020-2024
» Member, National Scholarship Secretariat Committee 2020-2024
» Chairman, Audit Committee, Ahafo Regional Coordinating Council 2022-2026
» Chairman, Audit Committee, Ahafo Zone One Regional Health Directorate 2022-2026
» Chairman, Audit Committee, St. Ambrose College of Education 2022-2026
» Member, Audit Committee, Berekum College of Education 2022- 2026

ADMISSION DRIVE

To publicize our programmes, the Department engaged in admission drive in the various secondary schools around the municipality. We encouraged students to apply to the University to enroll on our programmes as they are unique and students stand to gain a lot from them.

Visits: N/A

FUTURE PLANS

The future plans of the Department of Entrepreneurship and Business Sciences is categorized into three major areas and they are; strategies to improve academic work and increase the publicity of the department, staff development and research output, and program development.

In the case of the plans to improve academic work and increase publicity, the department aim is;

1. to have a database for the departmental alumina so as to create social networks to our students. The database base would also facilitate fundraising activities for the department. A tracer study will also be conducted to ascertain where our alumni are offering their contribution towards the development of the country.
2. to have collaborations with other universities to improve the department's exchange programs
3. to initiate plans to hold an annual lecture series where industry players would be invited to give a talk on the practical steps towards a successful business start-up for our final year students. In this way, the department would be building and strengthening a good relationship with industries.
4. to share its professional knowledge with the general public through various media houses in the Sunyani on current issues in economics and business.

In the case of staff development and research output, the department aim is;

1. to have at least two faculty members being promoted to the rank of associate professor in the next two years.
2. to have all faculty members in the department to have their terminal degree in the next two to three years. The department aims to achieve this by motivating all faculty members who have enrolled in a PhD program to finish hard.
3. to increase research output so that at the end of each academic year, the department can boast of an average of four papers for each faculty member.
4. to improve collaborative research work among faculty members and to also increase research output of faculty members through organizing departmental seminars.
5. to have at least one faculty member in the department winning a research grant in every academic year.

The future plan of the department is to develop several related programs so that a Business School can be created out of the School of Arts and Social Sciences. To achieve this goal, the department aim is;

1. to develop undergraduate programs in finance, accounting, marketing, strategic management and human resource development.
2. to start post-graduate programs in entrepreneurship, accounting and many other related post-graduate programs.
3. iiito develop and organize short-term certificate courses for entrepreneurs at a fee to raise money for the department.

DEPARTMENT OF LANGUAGES AND GENERAL STUDIES

The Department of Languages and General Studies started as Unit of Languages and Communication in 2011. The Unit offered service courses in English Communication Skills, Analytical Reading and Reasoning, and Ghanaian and African Studies to all the existing Schools of the University.

In 2013, in unison with the University's vision to become an excellent institution for generating,

advancing and applying knowledge in energy and natural resource sciences to help resolve the energy challenges of Ghana and West Africa, French was added. In 2014, the Department of Languages and General Studies was established by an Act of the University Council to promote the teaching of French Language, heighten up the English communication skills, as well as to equip the human resources, who are being trained (in Engineering, Sciences, Agriculture and Natural Resources), with soft skills and also help them to become bilingual 'technologians'.

Furthermore, the Department was required to solve critical energy and natural resources challenges in Ghana and the West African region particularly in the area of language and professional communication in order to increase innovation and undertake interdisciplinary academic research work. Currently, all students benefit from French courses, which are compulsory from levels 100 to the end of the first semester of Level 300.

Presently, UENR is one of the few universities in West Africa to be given an international accreditation to run language proficiency courses in French and English. The Department of Languages and General Studies currently runs language proficiency courses in DFP, TEF, TEFAQ, OET, DELF and DALF. As a result of this accreditation, people from neighboring countries come to UENR to take these language proficiency courses. Since its inception in 2016, the proficiency course has been able to generate close to 25000 euros as IGF to the university. This initiative has greatly helped to increase the visibility of the University in the West African sub-region. The Department currently has a temporal accreditation to run a Bachelor's of Arts program (BA) in Professional French.

Activities of the Past Year

The activities of the department in the past year

1. French higher education seminar

The Department organized a higher education seminar with the French embassy and Campus France for both staff and students. The seminar sought to explore higher education opportunities in France and also the scholarship opportunities available to students who study in France.

1. Departmental research seminar

The department started the academic year with a research seminar. Staff of the department presented various academic papers at the seminar and also learnt the new methodologies in research

2. MOU signing

The Department renewed its existing MOU with the Chamber of Commerce in France. It is also worthy to note that the department has been able to negotiate with scholarship secretariat in Accra to enable our students to join the Year Abroad Programme.

3. Development of academic programs

The department was able to develop a bachelor of Arts program (B.A) Communication and Digital media. The program has been forwarded to GTEC for approval.

4. Institutional accreditation from the Chamber of Commerce in France

Currently, UENR is one of the few universities in western Africa to be given an international accreditation to run language proficiency courses in French and English. The department of Languages and General Studies currently runs language proficiency courses in DFP, TEF, TEFAQ, OET, DELF and DALF. As a result of this accreditation people from neighboring countries come to UENR to take

these language proficiency courses. Since its inception in 2016, the proficiency course has been able to generate close to 25000 euros as IGF to the university. This initiative has greatly helped to increase the visibility of the University in the west African sub-region.

Future Plans

- **Academic Programs**

The department's future plans involve the development of new cutting-edge academic programs in:

- Applied Linguistics
- Energy and Environmental communication

These academic programs will seek to align to with the University's mandate and also meet the communication needs of the department. We seek to introduce new modern languages to the department, plans are underway to add the Chinese language to the list of modern languages at the department

- **Staff Development and Research output**

The department has developed a staff developmental agenda which seek to produce at least (ten)10 Ph.D. by 2027. To this end, staff members have been encouraged to work to meet the planed target. The Department also seek to encourage peer mentoring. There is currently an effort to link up with senior faculty members in sister universities for academic career mentoring. In terms of research output the department has a research agenda to produce at least 30 research articles in peer reviewed journals.

- **Partnerships and MOU'S**

The department seeks to partner and sign new MOU's which will in lieu to the benefit of the university. We seek to introduce new foreign languages in department. We also seek to research into the indigenous local dialect in order to promote its use in the region.

- **International collaborations/Research Project**

The department seeks to partner foreign partners in the area of research collaborations and research funding. Currently the department has a partnership with an educational software development company prepmyfuture in French.

Staff Statistics

NAME	QUALIFICATION	DESIGNATION	AREA OF SPECIALIZATION
Mr. Sampson Awafo	M Phil (KNUST)	Assistant Lecturer	French
Mrs. Gertrude Grumah	B.A English/ MSc English	Lecturer	Socio-linguistics
Mrs. Alberta Nyarko Dansoah Ansah	B. A English/ M.Ed. English/ M.Phil. English	Lecturer	Linguistics
Mrs. Cecilia Owusu Debrah	B.A English, MPhil English	Lecturer	Linguistics

Ms. Charity Odumale Roberts	B.Ed. / MPhil Guidance and Counselling	Senior Lecturer	Guidance/ Counselling
Ms. Nana Afia Karikari	B.A/MPhil (medical Sociology)	Assistant Lecturer	Medical sociology
Dr Amos Apraku	Ph.D. (Sociology)	Lecturer	Environmental Sociology and Live hood Systems
Mr. Isaac Asare-Aboagye	M.Phil. in Art and Culture	Assistant Lecturer	Ethnomusicology
Ms. Rosina Achiaa Annoh	B.A/MPhil Linguistics	Assistant Lecturer	Linguistics
Mr. Gabriel Owusu-Ansah	MPhil. French, 2015, KNUST B.Ed. French UED, Winneba	Assistant Lecturer	Translation/ Literature
Dr. Richard Baffour Okyere	Ph.D., 2023 MPhil., French, 2013, KNUST B.A. French, M.Phil. (French) KNUST 2013	Senior Lecturer	French literature/ Diplomatic discourse and literary pragmatics
Mr. Tahiru Djato	MPhil. French, 2013, KNUST B.A. French KNUST	Lecturer	FOS/Translation/ Technics of Expression
Dr. Francis Appiah Douglas	B.A/MPhil French/ Ph.D. French	Lecturer	Oral literature/ linguistics
Mr. Paul Anning	B.A/MPhil French	Lecturer	Oral literature/ FOS
Ms. Mary Twum Ampofo	Msc. Hospitality Management	Senior Administrative Assistant	Administration
Mr. Prince Donkor	BA Professional French	Senior Research Assistant	French

***WORKSHOPS/CONFERENCES/PUBLIC LECTURES**

Dr. AMOS APRAKU

1. Seminar Theme; Capacity-Building-on Research-Process, 22nd August, 2025, Venue RCEES, UENR
2. Climate-U Network International Conference On Higher Education and The Climate Crisis: 24th To 27th September, 2024, Nairobi – Kenya
3. Knowledge and Attitudes of KNUST Final Year Undergraduate Students to Climate Change.

Authors: Gyampoh B A, Tuffour Y F, Dakpo N, Apraku A, Ogega O M, Amissah S.

MR. GABRIEL OWUSU-ANSAH

1. Seminar Theme; Capacity-Building-on Research-Process, 22nd August, 2025, RCEES, UENR
2. Participant for 3rd Annual Transformational Dialogue On Small Scale Mining

MS. VERONICA EYRAM LAGBENEKU

1. Seminar Theme; Capacity-Building-on Research-Processes, 22nd August, 2025, RCEES
2. 4th International Conference Of The Department Of French, University Of Ghana (24 – 26 July 2024). Theme: Cohabitation And Sustainable Development In A Multilingual Context: Challenges and Perspectives.

MS. NANA AFIA KARIKARI

1. 9th Ghana Sociological and Anthropological Association Annual Conference.

Theme: 75 years of Sociology and Anthropology in Ghana: Critical Reflections, Societal Impact … and future directions, University of Ghana, Legon, 7th August, 2025

2. Seminar Theme; Capacity-Building-on Research-Processes, 22nd August, 2025, RCEES

3. 8th Annual Conference of Ghana Sociological and Anthropological Association (GSAA). Theme: Sociological And Anthropological Discourses On Sustainable Development Goals …Date: 18th-20th September 2024.

MR. ISAAC ASARE-ABOAGYE

1. Seminar Theme; Capacity-Building-on Research-Processes, 22nd August, 2025, RCEES, UENR
2. Participant – 3rd Annual Transformational Dialogue on Small Scale Mining (May, 2024 - Shiela's Executive Hotel, Sunyani)

MS. CECILIA DEBRAH

1. Seminar Theme; Capacity-Building-on Research-Processes, 22nd August, 2025 RCEES, UENR
2. The Impact of AI Integration on Language Teachers' Roles Africa ELTA (English Language Teachers Association) University of Dar es Salaam, Tanzania 20th - 22nd June, 2025
3. Linguistics Association of Ghana (14th LAG Workshop), Research Dilemmas and Breakthroughs: A Conversation, Using Artificial Intelligence to Facilitate Both Student Learning and Academic Research, 17th January, 2024, Virtual.
4. Maximize Leadership Conference, Theme: The Leadership Edge, 12th October, 2024, Eusbett International Conference Centre, Sunyani.
5. European Association for Research on Learning and Instruction (SIG 12- WRITING), Ways to Write

Topic: The Impact of AI Technologies On Students' Intertextual Practices In Academic Writing, 26th – 28th June, 2024, University of Nanterre, Paris France

6. Linguistics Association of Ghana 2024 Annual Conference, The Interfaces Between Language, Literature, and The Sciences, Exploring Students' Source Use Practices In Writing Group Tasks, 21st -23rd August, 2024, University Of Ghana

MR. PAUL ANNING

1. Seminar Theme; Capacity-Building-on Research-Processes Date: 22nd August, 2025, Venue RCEES
2. rom pollution to the circular Bio-economy: An international research Journey. A public lecture organized for Senior members of UENR. Venue: RCEES Auditorium, UENR. Date: 17th September, 2024.

DR. TAHIRU DJATO

1. Seminar Theme; Capacity-Building-on Research-Processes, Date: 22nd August, 2025, Venue RCEES
2. Conference: Theme; National stakeholder workshop on the Water-Energy-Food Nexus context and its governance in the Volta River basin, 11th March to 13th March 2025, Venue : La Villa Boutique Hotel, Accra.

DR. RICHARD BAFFUOR OKYERE

1. Seminar Theme; Capacity-Building-on Research-Processes
   Date: 22nd August, 2025 Venue RCEES

MR. SAMPSON AWAFO

1. Seminar Theme; Capacity-Building-on Research-Processes

Date: 22nd August, 2025, Venue RCEES

2. Thesis/Long Essay as a Requirement for Postgraduate Studies; University of Education, Winneba. 6th July, 2025.
3. Inter-University Conference for Doctoral Studies Iucds-23-25 July. Enhancing Quality Teaching and Research in Education Through Interdisciplinary Collaboration.
4. Colloque International Organisé Par Le Département De Français, Université Du Ghana 24-26 July. “Cohabitation Et Développement Durable Dans Un Contexte Plurilingue: Défis Et Perspectives”.

MR. KWASI SARFO

1. Land, Life and Society International Conference (7th-9th October 2025). Institute for Poverty, Land and Agrarian Studies (University of the Western Cape, Cape Town)
2. Africa Writeshop in Critical Agrarian Studies and Scholar-Activism (28th September-5th October 2025). Journal of Peasant Studies (JPS)/Institute for Poverty, Land and Agrarian Studies (PLAAS) (University of the Western Cape, Cape Town)
3. Pre-G20 Conference, Towards a Needed Paradigm Shift in Economic Policy (25nd -27th September 2025). International Development Economics Associates (Bircwood Hotel, Johannesburg, South Africa
4. Pre-G20 Young Scholars Workshop, Towards a Needed Paradigm Shift in Economic Policy (22nd -23rd September 2025). International Development Economics Associates (Johannesburg, South Africa
5. African Conference on Resilient and Sustainable Cities (26th -27th February 2025), African Centre for Sustainable Cities Studies (APC, Bunju, Dar es Salaam, Tanzania)

PUBLICATIONS

Dr. AMOS APRAKU

1. Apraku, A., Gyampoh, B. A., Morton, J. F (2025). Managing climate change through social justice in Africa: key lessons from the Libode area of Eastern Cape, South Africa. – Scientific African, Vol 27, e02534, https://doi.org/10.1016/j.sciaf.2025.e02534 2468-2276
2. Ebenezer Nana Kwaku Boateng, Yvonne Ami Adjakloe, Addae Boateng Adu Gyamfi, Amos Apraku, Simon Mariwah, Razak M. Gyasi (2025). Socio economic determinants and spatial analysis of access to sanitation among older adults in Ghana. Discover Social Science and Health, Vol. 5: Iss 12 |https://doi.org/10.1007/s44155-025-00160-1
3. Benjamin Damoah, Emmanuel Adu, Eunice Ofori, Amos Apraku (2024). Aggravation of climate change crisis in Gulf Regions of United States: A Review of Anthropogenic Factors. Journal of Ecohumanism: Volume: 3, No: 4, pp. 438 – 449. ISSN: 2752-6798 (Print) | ISSN 2752-6801 (Online). DOI: https://doi.org/10.62754/joe.v3i4.3534
4. Benjamin Damoah, Emmanuel Adu, Eunice Ofori, Amos Apraku (2024). Aggravation Of Climate Change Crisis In Gulf Regions Of United States: A Review Of Anthropogenic Factors. Journal Of Ecohumanism: Volume: 3, No: 4, Pp. 438 – 449. ISSN: 2752-6798 (Print) | ISSN 2752-6801 (Online). DOI: Https://Doi.Org/10.62754/Joe.V3i4.3534

DR. RICHARD BAFFOUR OKYERE

1. Okyere, R. B. Djato, T. (2025). La resolution des conflits dans un context africain: Analyses des éléments diplomatiques dans le mariage de Kany par Seydou Badian, Le cas de l'emploi des proverbes, Revue de l'Acaref,N0: 25, Vol 7. Tome 2, ISSN 2790- 038x, pp. 38-400

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MR. ISAAC ASARE-ABOAGYE

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8. Adom, D., Kportufe, G. E., Asare-Aboagye, I., & Kquofi, S. (2024). Artificial Reproductive Technology: Cultural Considerations Through an African Lens.

MR. PAUL ANNING

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MR. GABRIEL OWUSU-ANSAH

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MR. KWASI SARFO

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Dr. DJATO TAHIRU

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DR. COSMAS RAI AMENORVI

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MS. VERONICA EYRAM LAGBENEKU

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2. Tahiru Djato, Francis Douglas Appiah, Richard Baffour Okyere, Veronica Eyram Lagbeneku. (2024) : l'histoire De La Traite Des Noirs Dans l'oeuvre Littéraire d'aimé Césaire : Une Source De Réflexion Et De Prise De Conscience Pour l'homme Contemporain.

MR. SAMPSON AWAFO

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MRS. CECILIA O. DEBRAH

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COMMUNITY ENGAGEMENTS

DR. AMOS APRAKU

1. Vice Chairman of the Governing Board of Kaaseman Rural Bank PLC, Ghana.

2. Secretary, Association of Rural Banks, Ghana – Brong Ahafo Chapter.

3. Council member, Association of Rural Banks, Ghana – Brong Ahafo Chapter.

DR. RICHARD BAFFOUR OKYERE

1. Polling Officer SRC Elections: 2ND September 2024.
2. Member, UTAG-UENR Chapter Review Committee On Acquisition Of Building Plots Of Land: 10th September 2024.
3. Chairman, UENR Credit Union Hostel Management Committee: September 2024.
4. Member University Affiliation Policy Committee. -2023
5. Member, Anti-Sexual Harassment Committee-2024

GABRIEL OWUSU-ANSAH

» Examiner At WAEC For WASSCE Oral French
» Examiner At WAEC Or BECE French

PAUL ANNING

» Member: UTAG Choir, University of Energy and Natural Resources, Sunyani.
» Chairman: Committee for the Departmental Research LGS, 2024

ISAAC ASARE-ABOAGYE

1. 6th October, 2025 – Assessor – Music Leaner Material for Senior High Schools, and Performing Arts Learner material for Senior High Schools Organised by: National Council for Curriculum and Assessment (NaCCA).

2. 4th – 12 August, 2025 – Itinerant Examiner – Music (Performance Test) – West African Senior School Certificate Examination (WASSCE) for School Candidates, Organised by West African Examination Council (WAEC), Ghana.

3. Coordinator – UENR Cultural Troupe Unit
4. External Examiner (Music Practical Test) – West African Senior Secondary School Certificate Examinations (WASSCE)
5. Examiner (Creative Arts and Design) – Basic Examination Certificate Examinations (BECE

CECILIA O. DEBRAH
Member: School Board (School of Arts and Social Sciences)
Sectional Head: (Languages) Department of Languages and General Studies
Chairperson: Curriculum Development Committee – Department of Languages and General Studies
Copy-Editor: Journal of Energy and Natural Resource Management

NANA AFIA KARIKARI
Reviewer for:
1. Gender, place and Culture Journal
2. Academia, Environmental Sciences and Sustainability Journal

SAMPSON AWAFO
1. 1. WASSCE FRENCH PAPER II (Team leader)
2. 2. WASSCE FRENCH PAPER III (Assistant examiner)
3. 3. BECEE FRENCH PAPER II (Team leader)
4. 4. Local Church Secretary, Botokrom Seventh Day Adventist (SDA) Church. Berekum West District.

FUNDING OF RESEARCH ACTIVITIES
GABRIEL OWUSU-ANSAH
1. Phd Thesis Submitted at KNUST

RESEARCH COLLABORATIONS (INTERNATIONAL)
Dr. AMOS APRAKU
A Successfully Year-Abroad Programme for French Students from the Department of Languages and General Studies (LGS) And CEBELAE – Cotonou, Benin Took Place.

PAUL ANNING
L'image de Dieu et les petits dieux dans la littérature orale akan : le cas particulier des proverbes et contes.

NANA AFIA KARIKARI
1. Collaborators in University of Western Australia- Australia
2. Collaborators in KNUST

CENTRE FOR ENTREPRENEURSHIP AND BUSINESS INCUBATION (CEBI)

SCHOOL OF ARTS AND SOCIAL SCIENCES

INTRODUCTION (ESTABLISHMENT)

The Centre for Entrepreneurship and Business Incubation (CEBI) has made significant strides in advancing the University's vision of promoting innovation, entrepreneurship, and community engagement. The Centre focused on strategic initiatives such as policy development, business mentorship, capacity building, and strengthening institutional partnerships. These efforts have contributed to enhancing the University's visibility, student empowerment, and stakeholder collaboration.

Completed Activities

a. Development of a comprehensive Community Engagement Policy with detailed implementation guidelines. The document has been drafted and awaits submission to the University's governing bodies for approval.
b. Promotion and nurturing of innovative business ideas students, particularly in collaboration with the Department of Electrical Engineering. These initiatives aimed at commercializing creative projects into viable ventures.
c. Organization of entrepreneurship capacity-building programs for students to identify opportunities and develop sustainable business partnerships. This activity, supported by the MasterCard Foundation through an MoU with the National Service Authority (NSA), included a major training event at Chesville Hotel, Sunyani.
d. Strengthened public education and corporate social responsibility initiatives through media engagements, enhancing the University's image and visibility.
e. Development of a training manual focused on technical and entrepreneurial skills for both the University and external stakeholders.
f. Adwumawura Project by National Entrepreneurship and Innovation Programme (NEIP), a Government of Ghana flagship initiative. The Centre has signed an MoU with NEIP to undertake Adwumawura project which aims to train about 50 entrepreneurs in the Bono region.

6. Ongoing Activities

a. Training of the participants of the Adwumawura project
b. Finalization and approval of the Community Engagement Policy and Guidelines.
c. Continued mentorship of students and staff entrepreneurial initiatives, particularly in collaboration with the Department of Electrical Engineering.
d. Sustained community outreach and media engagements to promote the University's corporate visibility.

Other Activities

- **Workshops:** Capacity-building sessions on entrepreneurship and innovation for students and staff.
-
- **Conferences:** Engagements with external partners, including MasterCard Foundation and NSA representatives.

Challenges

1. Limited physical space for office and training activities, which affects the Centre's operational efficiency.
2. Pending administrative approval for key policy documents and proposals.
3. Need for additional funding to support new entrepreneurial initiatives and equipment procurement.

Future Plans of the Centre

1. Follow up on pending approvals for policy documents
2. Strengthen partnerships with industry and development agencies to attract more resources.
3. Expand training programs to cover emerging areas in entrepreneurship and innovation.
4. Enhance the Centre's visibility through consistent community and media engagement.

SCHOOL OF ENERGY

SCHOOL OF ENERGY

INTRODUCTION

The School of Energy was established during the 2021/2022 academic year and became fully operational in the same academic year. The overall objectives of the School are to provide students with competitive skills and competencies within Energy, P and as well as equip students with the necessary expertise to emerge as leaders in energy with a responsibility to promote inclusion, equal opportunity, and development in all communities in Ghana and beyond.

In February 2022, the University created the School of Energy from the two existing programmes in the Department of Energy and Petroleum Engineering. Thus, the Departments of Renewable Energy Engineering and Petroleum and Natural Gas Engineering were formed, being the two foundation Departments of the new School.
Currently, the School consists of two Departments: The Department of Petroleum and Natural Gas Engineering and Renewable Energy Engineering. The Department of Renewable Energy Engineering offers programmes leading to the award of undergraduate and post-graduate degrees, whilst the Petroleum and Natural Gas Engineering Department currently offers undergraduate and post-graduate programme in Petroleum Engineering and Natural Gas Engineering.

ACADEMIC PROGRAMMES

1. Department of Renewable Energy Engineering Headed by Felix Amankwah Diawuo, PhD

i. Undergraduate Programmes:

a. BSc. Renewable Energy Engineering

ii. Postgraduate Programmes

a. MSc. Sustainable Energy Engineering and Management (SEEM)

» PhD. Sustainable Energy Engineering and Management (SEEM)
» MSc Energy Economics
» MPhil Energy Economics
» PhD Energy Economics
» MSc Energy Policy and Sustainability
» MPhil Energy Policy and Sustainability
» PhD Energy Policy and Sustainability

2. Department of Petroleum and Natural Gas Engineering Headed by Dr. Yaw Akyampon Boakye-Ansah

ii. Undergraduate Programmes:

» BSc Petroleum Engineering
» BSc Petrochemical Engineering (undergoing accreditation)
» BSc Chemical Engineering (undergoing accreditation)

iii. Postgraduate Programmes

» MSc Natural Gas Engineering and Management
» MPhil Natural Gas Engineering and Management
» MSc Petroleum and Energy Enterprise Management (undergoing accreditation)
» MPhil Petroleum and Energy Enterprise Management (undergoing accreditation)
» PhD Petroleum and Energy Enterprise Management (undergoing accreditation)
» PhD Petroleum and Natural Gas Engineering (undergoing accreditation)

ADMINISTRATION OF THE SCHOOL

The School Administration is constituted by the following personnel:

1.	Prof. Nana Sarfo Agyeman Derkyi	Dean
2.	Ms. Abigail Amo Boatemaa	Faculty Officer/ School Registrar
3.	Ms.Paschalina Baatuolkuu	Snr Administrative Assistant (DPENG)
4.	Esther Benyi	Senior Admintrative Assisstant (DREE)
5.	Millicent fakornam Degbey	Senior Adminstrative Assistant

STUDENTS STATISTICS

The student's population in the school at the end of the 2024/2025 academic year stands at six Hundred and Sixty-Two (662), Four Hundred and Ninety-Five (495) males and One Hundred and sixty- four (164) females. The table shows the details of the number of students in the School.

DEPARTMENT OF RENEWABLE ENERGY ENGINEERING.

Table 2: BSc. Renewable Energy Engineering

Year/Level	**Male**	**Female**	**Total**
100	19	8	27
200	12	5	17
300	10	4	14
400	15	2	17
	56	19	
Total			75
Post Graduate Programme			
MSc. Sustainable Energy Management			
First Year	21	8	23
Second Year	20	3	17
Third year	15	2	29
	56	13	
Total			69
PhD. Sustainable Energy Management			
Total			46

DEPARTMENT OF PETROLEUM AND NATURAL GAS ENGINEERING.
Table 3: BSc. Petroleum and Natural Gas Engineering

Year/Level	Male	Female	Total
100	156	53	209
200	90	36	126
300	51	19	70
400	50	14	64
	347	122	472
Total			
Post Graduate Programme			
MPhil Natural Gas Engineering			
	9		9
MSc. Natural Gas Engineering			
	3		3
Total		12	

DEPARTMENT OF RENEWABLE ENERGY ENGINEERING
INTRODUCTION
The Department of Renewable Energy Engineering was established in the 2012/2013 academic year to run a four-year BSc Renewable Engineering program with the aim of fully integrating renewable energy generating technologies and environmental issues to meet the changing demands of the energy industry, particularly in Ghana and the West Africa sub-region.

The Renewable Energy Engineering programme provides knowledge in the scientific and engineering foundations and skills for such needs as alternative fuel technology, renewable energy, hydrogen fuel cell development and utilization, solar energy, energy extraction and geothermal storage, fusion and nuclear energy and the technologies for understanding and mitigation the environmental impacts of energy usage.

RESEARCH COLLABORATIONS (LOCAL AND INTERNATIONAL)
1. 1. The Department in partnership with both local (University of Ghana and University of Environment and Sustainable Development) and international (Aachen University and Politecnico Di Milano) institutions is carrying out an EU ERASMUS+ Project on "Improving Study Programs in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation" (ImPreSSion).

2. 2. The Department is collaborating on the GreenTech Mobility project titled "Advancing Sustainable Technologies through Academic Collaboration in Africa" intends to equip 26 Master's students, 9 Ph.D. candidates, 12 trainees, and 9 academic staff with technical and professional skills for emerging green industries, modernize curricula to align with Africa's development priorities, and strengthen African higher

education institutions to deliver quality education and foster global collaboration. Inclusivity and gender equity are central to the project's mission, with targeted scholarships (50%) for women and marginalized groups, mentorship programs in STEM fields, and institutional policies addressing structural inequities. To be implemented from 2025 to 2029, the project involves six African universities, namely University Nangui Abrogoua, Kenyatta University (as the leading universities) and Catholic University of Rwanda, National University of Science, Technology, Engineering, and Mathematics in Benin, and University of Energy and Natural Resources in Ghana (new to Intra Africa mobility scheme). The consortium also includes University Cadi Ayyad (Morocco) as associate partner, and Cologne University of Applied Science (TH Köln) as European Union technical partner.

PROPOSALS

1. Survey on the Social Perspectives of Green Hydrogen in Decentralized Energy Systems in Ghana
2. Solar-Powered Desalination of Saline Waters for Sustainable Synergistic Potable Water, Electricity, and Salt for Off-Grid Island Communities in Ghana.

FUNDING OF RESEARCH ACTIVITIES

1. Improving Study Programs in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation (ImPreSSion) EU ERASMUS+ Project (€ 709,150.00)
2. GreenTech Mobility: Advancing sustainable technologies through academic collaboration in Africa. EU funded Project (1,444,140.00 EUR)

FUTURE PLAN OF THE DEPARTMENT

1. Conclude the strategic plan for the Department.
2. Establishment of a Circular Economy and Sustainability Center.
3. Establishment of a Centre for Testing and Certification of Energy (CTCE) products and systems.
4. Development of new undergraduate and postgraduate programs in Renewable Energy and related programs.
5. Making the department vibrant and a cell or hub for Entrepreneurship, Innovation, and Competence.
6. Improvement in R&D activities in the department.
7. Ensuring digital departmental library.
8. Emphasis on interdisciplinary projects.
9. Organize national level conferences, paper presentations & project competition.
10. Carry out activities for the development of faculty and students.
11. Also, the department plans to mount the following short courses:

- Introduction to CFD Application for Renewable Energy Engineers
- Biogas Technologies
- Small Hydropower Development
- Wind Energy Technologies
- High-Performance Computing for Engineers

- Energy Communication

STAFFING

The Department is staffed by the following. Their names and qualifications are given in the table below.

Name	Qualification	Designation	Area of Specialization
Prof. Nana Sarfo Agyeman Derkyi	PhD. MPhil BSc. (KNUST)	Professor	Chemical Engineering
			Renewable Energy Technologies
Prof. Samuel Gyamfi	PhD (Canterbury)	Associate-Professor	Energy Demand Side
	MSc (Germany)		Management and demand response
	BSc. (KNUST)		
Dr. Felix Amankwah Diawuo	PhD (IST, Portugal)	Senior Lecturer	Energy Engineering
	MSc (IST, Portugal)		Electrical Systems
	MSc (KTH, Sweden)		
	BSc (KNUST)		
Mr. Lewis Ofori Amankonah	BSc. Renewable Energy Engineering (UENR)	Lecturer	Small Hydropower Development
	MSc. Sustainable Energy Management (UENR)		Zero Emissions Concept and circular economy
Ms. Esther Benyi	BSc.Human Resources management	Senior Administrative Assistant	

ING. PROF. NANA SARFO AGYEMANG DERKYI

Research Activities /Interest

- **Renewable Energy Technologies and System Design**
- **Design of hybrid solar-biomass plant and cogeneration plant.**
- **Optimization of chemical processes and Life cycle analysis.**
- **Catalysis, reaction engineering, and reactor design.**
- **Circular Economy and Clean Development Mechanism.**
- **Dye-sensitized solar cells.**

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2. Kusi, J. Y., Müller, R., Empl, F., Pelz, S., Derkyi, N. S. A., & Attiogbe, F. (2025). Kinetic Modelling and Simulation of Anaerobic Digestion of Fibrous Waste Materials and Slaughterhouse Waste. Array, 100521.
3. Kusi, J.Y.; Empl, F.; Müller, R.; Pelz, S.; Poetsch, J.; Sailer, G.; Kirchhof, R.; Derkyi, N.S.A.; Attiogbe, F.(2025). An Evaluation of Biogas Potential of Cassava, Yam and Plantain Peel Mixtures Using Theoretical Models and Hohenheim Biogas Yield Test-Based Experiments. Energies, 18, 947. https://doi.org/10.3390/en18040947
4. Hammond, E. Q., Okoroigwe, E., Njoku, H., & Derkyi, N. S. A. (2025). Energy Densification of Cocoa Pod Shell by Torrefaction Method. NIPES-Journal of Science and Technology Research, 7(3), 213-225.
5. Acakpo, M., Derkyi, N. S. A., Awudza, J. A. M., Kokloku, B. K., & Diawuo, F. A. (2025). Optimization of biodiesel production using oil extracted from microalgae harvested in Ghana. South African Journal of Chemical Engineering. https://doi.org/10.1016/j.sajce.2025.04.019
6. Issahaku, M., Derkyi, N. S. A., & Kemausuor, F. (2025). Assessing small-scale biogas digester adoption challenges and prospects in Ghana: Challenges and prospects of biogas adoption in Ghana. International Journal of Energy and Water Resources, 1-18. https://doi.org/10.1007/s42108-025-00345-z
7. Siabi, E. K., Awafo, E. A., Kabobah, A. T., Derkyi, N. S. A., Akpoti, K., Anornu, G. K., & Yazdanie, M. (2024). Quantifying future climate extreme indices: implications for sustainable urban development in West Africa, with a focus on the greater Accra region. Discover Sustainability, 5(1), 167. https://doi.org/10.1007/s43621-024-00352-w
8. Issahaku, M., Derkyi, N. S. A., & Kemausuor, F. (2024). A systematic review of the design considerations for the operation and maintenance of small-scale biogas digesters. Heliyon, 10(1). https://doi.org/10.1016/j.heliyon.2024.e24019
9. A.K. Milku, F. Attiogbe, C. Atombo, N.S.A. Derkyi, E.L. Asuako (2024). Evaluating the categorical effect of vehicle characteristics on exhaust emissions, African Transport Studies, https://doi.org/10.1016/j.aftran.2024.100008

Conferences/Workshops/Seminars

1. Nana Sarfo Agyemang Derkyi and Nana Kwaku Baah Derkyi. Embedding Scientific Collaboration, Mutual Benefits, and Digital Technology into Sustainable Transformation of Africa. Digital Belt and Road Conference, DBAR 2025. Sustainable Transformation through Digital Sciences. Double Tree by Hilton, Chengdu Xinglong Lake, China, 8 – 11 June 2025
2. 9th Digital Belt and Road Conference, DBAR 2025, China.
3. Training workshop on "Improving Study Programs in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation" (ImPreSSion). RWTH Aachen, Germany, October 2024.

4. International Conference on Energy and Engineering (ICEE). "Engineering Advances in the Energy Transition Space: Innovations, Inclusion, and Impact." School of Energy and School of Engineering, University of Energy and Natural Resources, October 2024.
5. National Energy Transition Framework. Stakeholder Forum on National Biofuel Action Plan August 2024.

Outreach Programmes/Extension Services

1. Judge for the Energy Commission's Renewable Energy Challenge for the Bono, Ahafo, and Western North regions.
2. Judge for the Energy Commission Senior High School Renewable Energy Challenge, GES, 2024.
3. Accreditation Panel Member for Ghana Tertiary Education Commission.
4. Reviewer/Editorial Team Member for some Journal Publishers.
5. Examiner for Chemical/Mining Division; Ghana Institution of Engineering.
6. Assessor; promotion of professors in some public universities.
7. Capstone Project Advisor; Summer Academy for Policy Leadership and Public Service, Policy Pathways Inc, Virginia, USA, July 2024

ING.PROF. SAMUEL GYAMFI

Research Activities /Interests

- Energy Demand Side Management
- Renewable and Sustainable Energy for Developing Countries
- Energy Policy and Economics

Publications

1. TK Avordeh, Gyamfi S., F Peprah, C Quaidoo (2025). Transforming energy access in developing economies: An innovative framework for demand response integration. Energy for Sustainable Development 89, 101833
2. UM Lahai, EA Ofosu, Gyamfi S., (2025). A Comparative Analysis of Selected Improved Biomass Cookstoves' Temperature Profiles Using the Testo 310 Flue Gas Analyzer. New Energy Exploitation and Application 4 (2), 1-16
3. MA Nyasapoh, Gyamfi S., SK Debrah, HA Gabber, NS Agyemang-Derkyi, R Djimasbe, YF Nassar, HJ El-Khozondar, J Gbinu (2025). Integrated Assessment of Nuclear-Renewable Hybrid Energy Systems: A Pathway to Sustainable and Resilient Industrial Electrification in Ghana. African Journal of Applied Research 11 (2), 22-46
4. Mark Nyasapoh, Gyamfi S., Seth Kofi Debrah, Hossam Gabbar, Nana Derkyi, Yasser Nassar, Romeo Djimasbe, Joshua Gbinu, Flavio Odoi-Yorke, Hala El-Khozondar (2025). Navigating renewable energy transition challenges for a sustainable energy future in Ghana. Solar Energy and Sustainable Development Journal 14 (1), 237-257
5. N Saddari, NSA Derkyi, F Peprah, Gyamfi S., GK Donkor (2025). Techno-economic and environmental assessment of grid and solar photovoltaic microgrid supply options for isolated off-grid rural communities toward sustainable and affordable

electricity in Nkoranza South, Bono East, Ghana. Results in Engineering 25, 103915
6. Gyamfi S., F Peprah, A Kwame, B Aboagye (2025). Electricity prosumption adoption: what to know and what you can do. The Intersection of Blockchain and Energy Trading, 193-220
7. Effah, E., Gyamfi, S., Diawuo, F. A., & Asuamah, E. Y. (2025). Socio-Economic Factors Influencing the Adoption of Solar Home Systems: The Case Study of Ghana. Scientific African, e02727.
8. Effah, E., Gyamfi, S., Diawuo, F. A., & Atinsia, M. A. (2025). Post Technical Assessment and Field Manual for Solar Home Systems in Island Communities: The case of Ghana. Solar Compass, 100107. https://doi.org/10.1016/j.solcom.2025.100107

Outreach Programmes/Extension Service

1. Trainer of Trainers Workshop on Agile Learning and Teaching, Professional Education for Renewable Energy in Ghana (ProREG) project, University of Energy and Natural Resources (UENR), Sunyani, 5- 6th May 2025
2. 10th International Research Symposium on Problem-Based Learning (IRSPBL) in Pretoria, South Africa on 17th - 21st November, 2025.
3. 6th Africa Sustainability Report and Think Energy SDGs Awards 2025 on the theme ''A Decade of SDGs in Africa: Our Climate Goals for Agenda 2030 at Accra on 22nd - 23rd October, 2025.
4. International Conference on Energy and Environment (ICEE) organized by School of Energy and School of Engineering, University of Energy and Natural Resources (UENR) from October, 2025 at UENR, Sunyani.
5. Moving Impact Project Workshop at Strathmore University, Nairobi, Kenya on June, 2025
6. SEED Exchange and DAAD Alumni Workshop on Renewable Energy organized by SEED Exchange in collaboration with DAAD at RCEES in University of Energy and Natural Resources (UENR), September, 2025.
7. ProREG Closing Session Workshop organized by ProREG Project at RCEES, University of Energy and Natural Resources on October, 2025
8. MOOC Impression Physical Workshop at Milan, Italy in February, 2025.
9. MOOC Impression Physical Workshop at Sunyani, Ghana in September, 2025.

DR. FELIX AMANKWAH DIAWUO

Research Activities /Interests

- Demand Side Management Strategies (Energy Efficiency & Demand Response)
- Renewable Energy Technologies
- Energy Policies, Energy Economics
- Energy & exergy optimization/thermo-economic analysis on power plant

Publication(s)

1. Effah, E., Gyamfi, S., Diawuo, F. A., & Asuamah, E. Y. (2025). Socio-Economic Factors Influencing the Adoption of Solar Home Systems: The Case Study of Ghana. Scientific African, e02727.

2. Acakpo, M., Derkyi, N. S. A., Awudza, J. A. M., Kokloku, B. K., & Diawuo, F. A. (2025). Optimization of biodiesel production using oil extracted from microalgae harvested in Ghana. South African Journal of Chemical Engineering.
3. Puziem, A. S., Diawuo, F. A., Acheampong, P., Anabadongo, M. A., & Abdulai, D. (2025). Time series forecast of power output of a 50MWp solar farm in Ghana. Solar Compass, 14, 100111. https://doi.org/10.1016/j.solcom.2025.100111
4. Effah, E., Gyamfi, S., Diawuo, F. A., & Atinsia, M. A. (2025). Post Technical Assessment and Field Manual for Solar Home Systems in Island Communities: The case of Ghana. Solar Compass, 100107. https://doi.org/10.1016/j.solcom.2025.100107
5. Rogers, J. K., Diawuo, F. A., & Domfeh, M. K. (2024). Assessing Peak Load Reduction Potential on Distribution Network: A Case Study of Residential Households in Freetown, Sierra Leone. International Journal of Energy Research, 2024(1), 5587946.
6. Mansaray, M. O., Diawuo, F. A., & Bantinge, B. (2024). Integration of multiple distributed solar PV (DSP) into the grid: The case of the distribution network in Freetown, Sierra Leone. Solar Compass, 10, 100075. https://doi.org/10.1016/j.solcom.2024.100075
7. Asare-Bediako, F., Antwi, E. O., Diawuo, F. A., & Dzikunu, C. (2024). Assessing the Performance of Hydro-Solar Hybrid (HSH) Grid Integration: A Case Study of Bui Generating Station, Ghana. Solar Compass. https://doi.org/10.1016/j.solcom.2024.100071

Conference/Workshops/Seminars

1. Africa E-Mobility Week & Forum. Charging Forward: Accelerating E-Mobility Adoption in Africa, United Nations Economic Commission for Africa Conference Centre (UNECA), Addis Ababa, Ethiopia, 14 -16th October 2025
2. Ghana Climate Compactible Growth (CCG) Network Annual Workshop, Fiesta Royale Hotel, Accra, 23rd-24th September 2025
3. Massive Open Online Course (MOOC) Capacity Building Workshop, IMPRESSION Project, University of Energy and Natural Resources (UENR), Sunyani, 8-12th September 2025
4. Government-Industry Consultation Workshop on Electric Vehicle Vision and Sales Targets, Ministry of Transport in collaboration with Regional Centre for Energy and Environmental Sustainability (RCEES), UENR, Accra, July 2025
5. Summer School of Climate, Land, Energy and Water Systems Modelling, Regional Centre for Energy and Environmental Sustainability (RCEES), UENR, Sunyani, 4th -22nd August 2025
6. EPIC Africa Consortium Meeting-Energy Planning and Modelling through Integrated Assessment of Climate Land Energy Water Nexus in Sub-Saharan Africa, Ngong Hills Hotel, Nairobi, Kenya, 10-14th February 2025
7. Workshop on Sustainability, LCA, WEF Nexus, climate change, green technologies and renewable energies and MOOC content development, organised within the context of the ERASMUS+ project ImPreSSion, Politecnico di Milano (PoliMi), Milan, Italy, 4-7th February, 2025

Outreach Programmes/Extension Service

1. Trainer of Trainers Workshop on Agile Learning and Teaching, Professional Education for Renewable Energy in Ghana (ProREG) project, University of Energy and Natural Resources (UENR), Sunyani, 5- 6th May 2025
2. Agile Teaching /Learning Formats on Practical Application of Renewable Energies Workshop under the ProREG Project, 28 June-16 July 2024, TU Berlin, Germany.
3. Enhancing Higher Education Delivery through Collaborative Curriculum Development and Innovative Teaching & Learning Practices Workshop, under the Impression Project, 4 September 2024, RCEES, University of Energy and Natural Resources (UENR)
4. Improving Study Programs in Ghana by Introducing Green Solutions, Sustainability Modules, and Digital Transformation (Impression) Workshop on Digitalization in Teaching and Interactive Learning with a focus on water management Gender and diversity & Project Management, and Sustainability 21.–25. October, 2024. RWTH Aachen University, Aachen Germany
5. Accreditation Panel Member for Ghana Tertiary Education Commission.
6. Reviewer/Editorial Team Member for some Journal Publishers.

ING. LEWIS OFORI AMANKONA

Research Activities /Interest

- Zero Emission Concepts for Urban Resilience in Selected African Cities.
- Circular Economy and Clean Development Mechanism.
- Hydropower Development and Engineering.
- Renewable Energy Technologies and System Design.
- Design of Solar Powered Cold Room for Hinterlands.
- Food Energy Water Nexus and Circular Economy.

Publication(s)

1. Amankona, L. O., Baffour, K. A., & Akudugu, J. A. (2025). Energy poverty and energy access in rural Africa. In Elgar Encyclopedia of Energy Economics (pp. 184-189). Edward Elgar Publishing.

Conferences/Workshops/Seminars

1. Training workshop on "Improving Study Programs in Ghana by Introducing Green Solutions, Sustainability Modules and Digital Transformation" (ImPreSSion). RWTH Aachen, Germany, October 2024.
2. International Conference on Energy and Engineering (ICEE). "Engineering Advances in the Energy Transition Space: Innovations, Inclusion, and Impact." School of Energy and School of Engineering, University of Energy and Natural Resources, October 2024.

Outreach Programmes/Extension Services

1. Mentor/Consultant, OLA Girls Secondary School, National Competition, Energy Commission Senior High School Renewable Energy Challenge, GES, 2024.

2. Electoral Commission of Ghana, Presiding Officer, Local Government Elections, Sunyani West District, January 2024.
3. WANHIVE Ghana – Women in Business Accelerator (WIBA) Programme, Mentor, Sunyani, February 2024.

DEPARTMENT OF PETROLEUM AND NATURAL GAS ENGINEERING

INTRODUCTION

The Petroleum Engineering programme was started in the 2014/15 academic year in the Department of Energy and Environmental Engineering. Subsequently, it remained in the Department of Energy and Petroleum Engineering in the 2018/19 academic year.
The Department of Petroleum and Natural Gas Engineering was established as one of the two foundation Departments of the School of Energy in February 2022. The Department currently runs one undergraduate programme and post graduates' programmes.

ACTIVITIES OVER THE PAST YEAR

- Industrial Engagement and visitations
- Submission of proposals to companies
- Organization of Career Fair for Energy and Engineering students
- Organization of Petroleum Lecture Series with Public Interest and Accountability Committee (PIAC)
- Attendance of conferences
- The Gas Challenge

Research Collaborations (Local and International)

1. Climate Action in Ghana: People, Policy, and Circular Solutions for a Resilient Future (Editor: Dr Yaw Akyampon Boakye-Ansah)

Workshops/Conferences/Public Lectures

1. Career Fair 2025
2. Future of Energy Conference (2025) – Resource person
3. Local Content Conference and Exhibition (Takoradi) - Panellist
4. International Conference on Energy and Engineering

Proposals

1. Ministry of Energy and Green Transition
2. Ghana National Gas Company
3. Ghana National Petroleum Corporation

Community Engagements

1. Clean Cooking with Gas (Outreach in Sunyani)

Visits

a. BOST Energies
b. NPA
c. Total Energies

d. Ministry of Energy and Green Transition
e. GOIL Ghana
f. Environmental Protection Authority

Future Plans of the School

1. Creation of three (3) departments from the Department of Petroleum and Natural Gas Engineering
2. Introduction of new programmes from the Department of Petroleum and Natural Gas Engineering

Name	Qualification	Designation	Area of Specialization
Dr. Yaw Akyampon Boakye-Ansah	Ph.D. (Strathclyde)	Lecturer	General Petroleum Engineering,
	MSc.(Aberdeen) BSc. (KNUST)		Drainage in Soils and Foams, Partial differential equations (nonlinear) Reservoir Engineering
Emmanuel Acheaw	MSc (RGU, UK) BSc. (KNUST)	Lecturer	Petroleum Geoscience and Basin Studies, Seismic Acquisition & Interpretation.
Justice Sarkodie-Kyeremeh	MSc (RGU) BSc (KNUST)	Lecturer	Drilling Technology, Advance Completions and Subsea Systems, petroleum Production
Mr. Prosper Anumah	MSc. (KNUST) BSc. (KNUST)	Lecturer	Petroleum Geosciences Reservoir Engineering Geophysics
Dr. Shaibu Mohammed	PhD. MSc (AUST) BSc (UMaT)	Lecturer	Petroleum Engineering
Dr. Fawziyah Oyefunka Olarinone	PhD. Petroleum Engineering	Assistant Lecturer	Petroleum Engineering

	MSc. Petroleum Engineering BSc. Petroleum Engineering		
Mr. Ivan Warden Nyamekye	PGDip (HW, UK) BSc. (KNUST)	Senior Lab. Technician	Petroleum Engineering
Mr. ken Antwi	BSc. Petroleum engineering	Senior Lab. Technician (Contract)	Petroleum Engineering
Mr. Samuel Boateng Bamfo	BSc. Petroleum engineering	Senior Lab. Technician (Contract)	Petroleum Engineering
Mr. Emmanuel Odoom Asare	BSc. Petroleum engineering	Senior Lab. Technician (Contract)	Petroleum Engineering
Mr. Isaac Bediako Nendomaagyemeh	BSc. Petroleum engineering	Senior Lab. Technician (Contract)	Petroleum Engineering
Ms. Pascaline Baatuolkuu	BSc. Human Resources management, MBA Human Resources Management	Senior Administrative Assistant	

DR. YAW AKYAMPON BOAKYE-ANSAH

Research Activities /Interests

- Gas processing, transportation, and network
- Energy transition
- Relative permeability
- Carbon Capture, Storage and Utilization
- Drainage in soils and foams
- Waste management in Ghana's oil and gas industry

Publication(s)

1. Climate Action in Ghana: People, Policy, and Circular Solutions for a Resilient Future (Editors: Simon Bawakyillenuo, Yaw Akyampon Boakye-Ansah, Charles Gyamfi Ofori), May 2025
2. Mohammed, S., & Boakye-Ansah, Y. A. (2024, August). Gas Reserve Estimation and Performance Prediction of a Fracture-Dominated Unconventional Reservoir Using Weibull Model. In SPE Nigeria Annual International Conference and Exhibition (p. D032S029R010). SPE.

Conferences/Workshop/Seminars

- » Career Fair 2025
- » Future of Energy Conference (2025) – Resource person
- » Local Content Conference and Exhibition (Takoradi) - Panellist
- » International Conference on Energy and Engineering

Outreach Programmes/Extension Service

- » Review of journal article for JENRM
- » Spearheaded the maiden Departmental Career Fair
- » Visit to oil and gas companies across the country
- » Trainer and Coach, Schlumberger PetroChallenge

EMMANUEL ACHEAW

Research Interests

- » Machine learning in pump operations.
- » Geochemical Analysis of Formations.
- » Fractured Reservoir Analysis.

JUSTICE SARKODIE-KYEREMEH

Research Activities /Interests

- » Unconventional Petroleum Systems
- » Hydrate Inhibition, Drilling Mechanics
- » Advance Well Control, Petroleum Production Technology

MR. PROSPER ANUMAH

Research Activities /Interests

- » Reservoir characterization and modelling
- » Geomechanical Studies
- » Prospect Evaluation & Risk Analysis
- » Basin and Petroleum System Modelling

DR. FAWZIYAH OYEFUNKA OLARINONE

Research Activities/Interest

- » Carbon Capture, Storage and Utilisation
- » Hydrate as flow assurance

Publication

1. Olarinoye, F. O., Kang, S. P., & Ikenisikimama, S. S. (2024). Synergistic performance of mixed agro-waste-based amino acids as kinetic hydrate inhibitors for natural gas hydrate control. Journal of Molecular Liquids, 395, 123837. https://doi.org/10.1016/j.molliq.2024.123837

2. Olarinoye, F. O., Kang, S. P., Ajienka, J. A., & Ikenisikimama, S. S. (2024). Synergy between two natural inhibitors via pectin and mixed agro-waste-based amino acids for natural gas hydrate control. Geoenergy Science and Engineering, 239, 212967. https://doi.org/10.1016/j.geoen.2024.212967

3. Hamzat, A. K., Olarinoye, F. O., Yusuf, B. O., & Tanimu, A. (2025). Mechanochemistry: A powerful tool to engineer catalyst's functionality. Journal of the Energy Institute, 102356. https://doi.org/10.1016/j.joei.2025.102356

4. Olarinoye, F. O., Ajienka, J. A., & Ikenisikimama, S. S. (2025). Molecular insight into the inhibitory effects of amino acids on natural gas hydrate. Proceedings of the SPE Nigeria Annual International Conference and Exhibition (NAICE), D021S001R005.

Conferences/workshop/Seminar

1. SPE Nigeria Annual Conference and Exhibition (NAICE 2025)
2. RSIF Regional Symposium, Uganda, 2025
3. International conference on Energy and Engineering, UENR 2025

Outreach Programme and Extension Service

1. Peer Review and Editorial Service
2. Reviewer, Results in Engineering (Elsevier) – Reviewed manuscripts on flow assurance, carbon capture, and hydrate inhibition (2025).
3. Reviewer, Journal of Dispersion Science and Technology – Evaluated articles on colloidal systems and green chemistry inhibitors (2025).
4. Reviewer, Petroleum Science and Technology – Reviewed technical papers on oil and gas flow dynamics and hydrate control (2025).
5. Research Mentor, Regional Scholarship and Innovation Fund (RSIF) – Mentored RSIF scholars and fellows across the Energy thematic area; supported proposal development, data analysis, and research dissemination during the RSIF Energy Systematic Review Project (2024 – 2025).
6. Energy Mentor and Judge, Switch Energy Alliance Global Competition (2025) – Provided mentorship to university teams across in Ghana for developing practical energy-transition solutions; served as a final-round judge for teams from all over the world, evaluating sustainability, technical feasibility, and innovation impact.

Outreach and Knowledge Dissemination

1. Panel contributor, RSIF Kampala Symposium (2025) – Participated in thematic synthesis discussion on regional research outputs in renewable energy.

DR. SHAIBU MOHAMMED

Research Activities/Interest

Pressure/rate transient analysis

Unconventional reservoir modeling
Enhanced oil recovery
CO2 sequestration in depleted reservoirs and aquifers

MR. IVAN WARDEN NYAMEKYE
Research Activities /Interests

- Petroleum Engineering
- Data Analytics
- Engineering Education

SCHOOL OF SCIENCES

SCHOOL OF SCIENCES

1.0 Introduction

The School of Sciences was the third School established by the University in the 2013/2014 Academic Year, dedicated to research and teaching about scientific knowledge and technology in its social context. Succinctly, the School offers transformational and value-based education in physical and biological sciences, mathematics, computer science, and information technology. We generate, advance, and disseminate knowledge in these various disciplines and provide the enabling platform for building competencies needed for attaining sustainable development goals and the socio-economic development of the nation. The overall objective of the School is to equip students with the requisite theoretical knowledge, practical skills and competencies required to address energy, natural resources, environmental and related socio-economic challenges.

Vision

To become a centre of excellence for the promotion of empirical knowledge and innovative research in natural and applied sciences.

Mission

To generate, advance, and disseminate scientific knowledge and research for the development of human resources and society through competitive science-related disciplines.

2.0 DEPARTMENTS AND RESEARCH CENTRES

The School has seven (7) Departments and one (1) Centre, which are:

1. Department of Biological Science
2. Department of Chemical Sciences
3. Department of Computer Science and Informatics
4. Department of Information Technology and Decision Sciences
5. Department of Mathematics and Statistics
6. Department of Medical Laboratory Science
7. Department of Nursing
8. Centre for Research in Applied Biology (CeRAB)

3.0 ACADEMIC PROGRAMMES

I. Department of Biological Science:

i. Undergraduate Programmes:

a. BSc. Biological Science

ii. Postgraduate Programmes:

b. MPhil. Environmental Science

II. Department of Chemical Sciences:

i. Undergraduate Programmes:

a. BSc. Chemistry

b. BSc. Biochemistry

ii. Postgraduate Programmes:
a. MPhil. Chemistry

III. Department of Computer Science and Informatics:
i. Undergraduate Programmes:
h. Diploma in Computer Science
i. BSc. Computer Science

ii. Postgraduate Programmes:
a. PhD in Computer Science
b. MPhil Computer Science
c. MSc. Computer Science

IV. Department of Mathematics and Statistics:
i. Undergraduate Programmes:
b. BSc. Mathematics
c. BSc. Statistics
d. BSc. Actuarial Science
e. Diploma Statistics

i. Postgraduate Programmes:
a. MPhil Applied Mathematics

V. Department of Medical Laboratory Science:
i. Undergraduate Programmes:
a. BSc. Medical Laboratory Science

VI. Department of Nursing:
i. Undergraduate Programme:
a. BSc. Nursing

VII. Department of Information Technology and Decision Science
i. Undergraduate Programmes:
a. BSc. Information Technology
b. Diploma Information Technology

ii. Postgraduate Programmes:
a. MPhil Information Technology
b. MSc. Information Technology

4.0 ADMINISTRATION OF THE SCHOOL
The following personnel constitute the School's Administration:

S/N	Ranks	Number
1	Professor	1
2	Associate Professors	5
3	Senior Lecturers	21
4	Lecturers	38
5	Assistant Lecturers	9
6	Technical Instructors	0
7	Senior Research Assistant	5
8	Senior Laboratory Technicians/Technicians	15
9	Part-time Lecturers/Assistant Lecturers	15
10	Assistant Registrar	1
11	Junior Assistant Registrar	2
12	Principal Administrative Assistants	3
13	Senior Administrative Assistants	3
	Grand Total	118

5.2 Student Population of the School

S/N	Programme	Total
Department of Biological Science		
1	BSc. Biological Science	621
2	MPhil. Environmental Science	19
	Sub Total	640
Department of Chemical Sciences		
2	BSc. Chemistry	59
	BSc. Biochemistry	253
	MPhil. Chemistry	23
	Sub Total	335
Department of Computer Science & Informatics		
3	BSc. Computer Science	838
	Diploma Computer Science	74
	MPhil Computer Science	32
	MSc Computer Science	10
4	PhD Computer Science	26
	Sub Total	980

Department of Information Technology & Decision Sciences		
6	BSc. and Diploma Information Technology (Regular & Weekend)	2,996
7	MPhil Information Technology	37
8	MSc. Information Technology	13
	Sub Total	3,046
Department of Mathematics & Statistics		
10	BSc. Mathematics (Regular & Weekend)	58
11	BSc. Statistics	56
12	BSc. Actuarial Science	118
13	Diploma in Statistics	11
14	MPhil Applied Mathematics	53
	Sub Total	296
Department of Medical Laboratory Science		
16	BSc. Medical Laboratory Science (Regular & Weekend)	810
Department of Nursing		
17	BSc. Nursing (Regular & Weekend)	1,289
	GRAND TOTAL	**7,396**

ACTIVITIES FOR THE YEAR UNDER REVIEW

The following are some activities that took place within the academic year:
The School of Sciences organized the 2nd edition of its International Conference on Science, Technology, Health, and Innovation for Sustainable Development (STHISD) held from 20th to 21st August, 2025.

The theme was on: "Advancing Sustainable Futures through Environment, Health, ICT, and Food Security: The Role of Emerging Scientists."
The Conference achieved its objectives of fostering multidisciplinary research collaboration, promoting innovation, and providing a platform for knowledge sharing among researchers and practitioners.

7.0 PUBLICATIONS (FOR THE YEAR UNDER REVIEW)

Staff of the School produced one hundred and forty five (145) publications.

8.0 FUTURE PLANS OF THE SCHOOL

The School of Sciences for the next one year plans to achieve the following as indicated in its Strategic Thrust:

1. The School in collaboration with the Center for Research and Applied Biology (CeRAB) intends to organized the second edition of the its annual SCIENCE FAIR.
2. Increase the research output of the School.
3. Encourage harmonious and peaceful working relationship between all staff and students.
4. Enhance local and international visibility of the School.
5. Ensure student centered teaching and learning.
6. Increase the number of postgraduate programmes run by the School.
7. Support human resources and staff development.
8. Seek sponsorship for the establishment of laboratory infrastructure.
9. Ensure quality (Quality Assurance) in all the activities of the School.

A. DEPARTMENT OF MATHEMATICS AND STATISTICS

The vision of the Department is to produce highly skilled professionals in Mathematics, Statistics, Actuarial Science and related programmes and to empower students to demonstrate, articulate and value the acquired knowledge and skills. Among the core activities of the Department is to design programmes that conform to international best practices; provide teaching and research, and roll out more undergraduate and postgraduate training programmes.

Academic Programmes

II. Department of Mathematics and Statistics Headed by Prof. Elvis Kobinah Donkoh

i. Undergraduate Programmes:
   - » BSc Mathematics
   - » BSc Actuarial Science
   - » BSc Statistics
   - » Diploma in Statistics

ii Postgraduate Programmes:
MPhil Applied Mathematics

Staff and Students Statistics

Table 1.1 Students' Statistics

Level	Number of Students			
Program	BSc. Statistics	BSc. Actuarial Science	BSc. Mathematics	Dip. Statistics
L100	6	22	15	8
L200	8	20	14	3
L300	19	38	14	
L400	23	38	15	

Total	56	118	58	11

Table 1.2 Students' Statistics (MPhil. Applied Mathematics)

LEVEL	Number of students
Year 1	33
Year 2	20
TOTAL	**53**

Students Statistics

The student statistics are presented below;

Staff Category	Number of Staff
Full Professor	0
Associate Professor	2
Senior Lecturer	6
Lecturer	13
Assistant Lecturer	1
Part-time Assistant Lecturer	5
Senior Research Assistant	1
Administrative Staff	1
Total	**30**

(Research Collaborations (Local and International)

The Department of Mathematics and Statistics, under the leadership of Prof. Elvis Kobina Donkoh, continues to strengthen its research collaborations both locally and internationally in line with the University's strategic objective of promoting impactful and interdisciplinary research

At the local level, the Department maintains active collaborations with key institutions such as the Ghana Statistical Service, Hollard Insurance Ghana, EORIC and RCEES . These partnerships focus on areas including data analytics, statistical modelling, risk assessment, Internships, industrial attachments and policy-oriented research, Climate Variability etc
The Department is deepening its international outreach by collaborating with industry players, Alumini, and Academic partners to organize seminar series and research workshops. These platforms showcase ongoing research by staff and students while fostering mentorship, innovation, and knowledge exchange between academia and industry.

Workshops/Conferences/Public Lectures

» 2nd Edition of the International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD 2025) — "Advancing Sustainable Futures through Environment, Health, ICT, and Food Security: The Role of Emerging Scientists" held from 20th – 22nd August 2025 at the RCEES Auditorium, University

of Energy and Natural Resources (UENR), Sunyani Campus.

Publications (for the year under review)

Prof. Elvis Kobina Donkoh

1. Donkoh, E. K., Danquah, B. A., Mahama, F., Musah, D., Tuffour, F., Mensah, K., & Danquah, K. K. (2025). Transmission dynamics of yellow fever with toxic infected population, Commun. Math. Biol. Neurosci., Article-ID.
2. Mahama, F., Donkoh, E. K., Annin, K., Osman, S., Otoo, D., Mohammed, I., & Ackora-Prah, J. Minimum Overlap Difference in Dual Masting of GSM Network Design(2025) Contemporary Mathematics, 2432-2449.
3. Otoo, D., Donkoh, E. K., Chuaya, R. G., Mensah, K., Sebil, C., Danquah, B. A., & Adusei, H. Modeling and Analysis of the Dynamics of Rabies using Nonstandard Finite Difference Approach with Optimal Control (2025) Appl. Math. Inf. Sci. 19, No. 5, 1013-1026
4. Donkoh, E. K., Otoo, D., Osman, S., Baafi, M., Anokye, M., & Boateng, E. Y.(2024) Mathematical modelling of transmission dynamics of Dengue Fever in the presence of infective immigrants. Journal of AppliedMath, 2(3), 160-160.
5. Elvis Kobina Donkoh, Francois Mahama, Shaibu Osman, Dominic Otoo, Joseph Ackora-Prah. Journal of AppliedMath, Vol.2, No.4, 2024; Octagonal-square tessellation model for masting GSM network: A case study of MTN Kumasi-East, Ghana. DOI: https://doi.org/10.59400/jam.v2i4.167
6. Donkor, E. K., Ansu, B., Osman, S., Otoo, D., Onsongo, W. M., & Boateng, E. Y. (2024). Modelling the dynamics of syphilis infection with personal protection and treatment as optimal control strategies. Journal of AppliedMath, 2(3), 179. https://doi.org/10.59400/jam.v2i3.179D
7. Donkoh, E. K., Otoo, D., Osman, S., Baafi, M., Anokye, M., & Boateng, E. Y. (2024). Mathematical modelling of transmission dynamics of Dengue Fever in the presence of infective immigrants. Journal of AppliedMath, 2(3), 160. https://doi.org/10.59400/jam.v2i3.160

Mr. Eric Okyere

1. **Afful, B. A., Safo, G. A., Marri, D., Okyere, E., Ohemeng, M. O., & Kessie, J.** A. (2025). Deterministic optimal control compartmental model for covid-19 infection. Modeling Earth Systems and Environment, 11(2), 87. Modeling Earth Systems and Environment.
2. Okyere, E., Seidu, B., & Nantomah, K. (2025). Deterministic nonlinear epidemiological model for COVID-19 infection with double-dose vaccination. Scientific African, e02947
3. Nana-Kyere, S., Asamoah, J. K. K., De-Graft Ankamah, J., Okyere, E., Seidu, B., Kwarteng, D., Larbi Ayetey, E., & Kwabena Odum, J. (2025). Mathematical modeling and cost-effectiveness analysis of an SeEeIeRe typhoid fever model. Journal of Mathematics, 2025(1), 1212057
4. Akuka, P. N., Seidu, B., Okyere, E., & Abagna, S. (2024). Fractional-Order Epidemic Model for Measles Infection. Scientifica, 2024(1), 8997302.

5. Tawiah, K., Asosega, K. A., Iddi, S., Opoku, A. A., Abdul, I. W., Ansah, R. K., Bukari, F. K., Okyere, E., & Adebanji, A. O. (2024). Assessment of neonatal mortality and associated hospital-related factors in healthcare facilities within Sunyani and Sunyani West Municipal Assemblies in Bono Region, Ghana. Health Services Insights, 17, 11786329241258836. https://doi.org/10.1177/11786329241258836
6. Anokye, M., Barnes, B., E. Assabil, S., Okyere, E., & A. Konadu, A. (2024). Fractional-Order Delay Cobweb Model and Its Price Dynamics. International Journal of Differential Equations, 2024(1), 1209433.
7. Konlan, M., Abassawah Danquah, B., Okyere, E., Osman, S., Amenyo Kessie, J., & Kobina Donkoh, E. (2024). Global stability analysis and modelling onchocerciasis transmission dynamics with control measures. Infection Ecology & Epidemiology, 14(1), 2347941.

Prof. Dominic Otoo

1. Mahama, F., Donkoh, E. K., Annin, K., Osman, S., Otoo, D., Mohammed, I., & Ackora-Prah, J. Minimum Overlap Difference in Dual Masting of GSM Network Design(2025) Contemporary Mathematics, 2432-2449.
2. Otoo, D., Donkoh, E. K., Chuaya, R. G., Mensah, K., Sebil, C., Danquah, B. A., & Adusei, H. Modeling and Analysis of the Dynamics of Rabies using Nonstandard Finite Difference Approach with Optimal Control (2025) Appl. Math. Inf. Sci. 19, No. 5, 1013-1026
3. Donkoh, E. K., Otoo, D., Osman, S., Baafi, M., Anokye, M., & Boateng, E. Y.(2024) Mathematical modelling of transmission dynamics of Dengue Fever in the presence of infective immigrants. Journal of AppliedMath, 2(3), 160-160.
4. Elvis Kobina Donkoh, Francois Mahama, Shaibu Osman, Dominic Otoo, Joseph Ackora-Prah. Journal of AppliedMath, Vol.2, No.4, 2024; Octagonal-square tessellation model for masting GSM network: A case study of MTN Kumasi-East, Ghana. DOI: https://doi.org/10.59400/jam.v2i4.167
5. Donkoh, E. K., Ansu, B., Osman, S., Otoo, D., Onsongo, W. M., & Boateng, E. Y. (2024). Modelling the dynamics of syphilis infection with personal protection and treatment as optimal control strategies. Journal of AppliedMath, 2(3), 179. https://doi.org/10.59400/jam.v2i3.179D

Mr. Musah Konlaan

1. Konlan, M., & Chuaya, R. G. (2025) Stability Analysis of a Mathematical Model for Examination Malpractice Dynamics European Journal of Mathematical Analysis
2. Konlan, M., Danquah, B. A., & Iddrisu, A. (2025) Mathematical modelling to assess the impact of a hypothetical vaccine on the dynamics of human onchocerciasis, Commun. Math. Biol. Neurosci.
3. Chuaya, R. G.& Konlan, M.(2025) Analysis of a Mathematical Model of Corruption as an Epidemic, Open Access Library Journal
4. Konlan, M., Abassawah Danquah, B., Okyere, E., Osman, S., Amenyo Kessie, J., &

Kobina Donkoh, E. (2024). Global stability analysis and modelling onchocerciasis transmission dynamics with control measures. Infection Ecology & Epidemiology, 14(1), 2347941.

5. Konlan, M. (2024). Modeling the Inflow of Exposed and Infected Migrants on the Dynamics of Malaria. European Journal of Mathematical Analysis, 4, 7-7.

Dr. Baaba A. Danquah

1. Konlan, M., Danquah, B. A., & Iddrisu, A. (2025) Mathematical modelling to assess the impact of a hypothetical vaccine on the dynamics of human onchocerciasis, Commun. Math. Biol. Neurosci.
2. Donkoh, E. K., Danquah, B. A., Mahama, F., Musah, D., Tuffour, F., Mensah, K., & Danquah, K. K. (2025). Transmission dynamics of yellow fever with toxic infected population, Commun. Math. Biol. Neurosci., Article-ID.
3. Konlan, M., Abassawah Danquah, B., Okyere, E., Osman, S., Amenyo Kessie, J., & Kobina Donkoh, E. (2024). Global stability analysis and modelling onchocerciasis transmission dynamics with control measures. Infection Ecology & Epidemiology, 14(1), 2347941.

Community Engagements

1. Head of Department, Mathematics & Statistics
2. Member; School of Sciences Board, Fact Finding Committee
3. External Assessor (M.Phil & Ph.D Mathematics), Faculty of Mathematical Sciences, C.K. Tedam University of Technology & Applied Sciences
4. External Assessor, Promotion Document (Lecturer to Senior Lecturer), Department of Mathematics, UCC
5. Member, Constitution of Institutional Strategic Plan Situational Analysis Committee, UENR

Future Plans of the Department

1. **Strengthen Academic Programmes:**

Oversee curriculum review and accreditation processes for new programmes such as B.Sc. Financial Mathematics, B.Sc. Mathematics with Computing, B.Sc. Computational Statistics and Biometry, and B.Sc. Data Science, ensuring alignment with emerging industry and national development needs.

2. **Enhance Research and Publications:**

Promote collaborative and interdisciplinary research within the department by forming specialized research clusters in Applied Mathematics, Statistical Modelling, and Actuarial Science. I will also mentor early-career lecturers toward publishing in reputable indexed journals.

3. **Capacity Building and Mentorship:**

Facilitate workshops and seminars for academic staff and postgraduate students on advanced data analysis tools, scientific writing, and grant proposal development to enhance research productivity and professional development.

4. **Student Development and Support:**
Strengthen academic advising, encourage participation in mathematical competitions, and foster partnerships with professional bodies such as the Ghana Statistical Service, Actuarial Society of Ghana, and Mathematical Association of Ghana.

5. **Infrastructure and Resource Development:**
Advocate for improved teaching and research facilities — including a well-stocked research books, articles in the department section of the library, modern teaching aids, and office space — to support effective teaching and learning.

B. DEPARTMENT OF NURSING

1.0 INTRODUCTION

The Department of Nursing (DON) started as a unit under the erstwhile Department of Basic and Applied Biology in the 2017/2018 academic year to provide manpower needs in the health sector. It gained its status as a department in February 2022. The department believes in training Nurses who are knowledgeable with integrity and capable of impacting Ghana and beyond. In line with the University's mandate, our tenets are to train students with a high sense of professionalism, committed to problem-solving, active in community partnership, and who approach their work with integrity. Since its establishment, the department has become one of the lifelines of the university.

Vision of DON

Our vision is to be the focal center in the training of competent nursing professionals who can touch clients' hearts through a caring hand.

Mission of DON

The department's mission is to prepare individuals as professionals whose care depicts humane, evidence-based, and ethical practice in the nursing profession.

Academic Programmes

» Department of Nursing Headed by Dr. Ba-Etilayoo Atinga
» Undergraduate Programmes:
    BSc. Nursing

Administration of the Department

The Department's Administration is constituted by the following personnel:

1. Dr. Ba-Etilayoo Atinga	Head of Department
2. Ms. Marian Owusuah Damoah	Senior Administrative Assistant

Staff and Students Statistics

Staff

No.	NAME	DESIGNATION
1	Dr. Ba-Etilayoo Atinga	HOD/ Senior Lecturer
2	Dr. Vincentia Sarfo-Brobbey	Lecturer
3	Dr. Mohammed Aliu	Lecturer
4	Dr. Addah Gilbert Wilfred Graham	Lecturer
5	Mr. Albert Henyo	Lecturer
6	Mrs. Diana Han-Wilson	Lecturer
7	Mrs. Rosemary Braimah	Lecturer
8	Ms. Marian Owusuah Damoah	Senior Administrative Assistant

Students Statistics (Regular)

LEVEL	NUMBER
100	168
200	192
300	169
400	137
TOTAL	666

Students Statistics (Weekend)

LEVEL	NUMBER
200	160
300	354
400	109
TOTAL	623

Workshops/Conferences/Public Lectures

1. Dr. Ba-Etilayoo Atinga

CONFERENCES AND WEBINARS

a. Organizing Committee, Launching of the Ghana Academy of Forensic Sciences & Panel Discussion, Modernizing Crime Investigations in Ghana: Bridging Traditional Methods with Forensic Innovations through capacity building, 6th September 2025, University of Ghana, Legon, Accra, Ghana

b. Participant, 2nd edition of its International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD) under the theme "Advancing Sustainable Futures through Environment, Health, ICT and Food Security: The Role of Emerging Scientists.", 22th August, 2025

c. Presenter, NMU DNS Online Research Day PowerPoint Presentations, 28th May, 2025
d. Presenter, WACM's 2024 International Conference of Morphologists scheduled for October 4 – 6, 2024 at the University of Ghana Medical Centre, Accra
e. Presenter, (Determination of Dermatoglyphic pattern of monozygotic twins) From the womb to the tomb: the role of morphologist, international conference of morphologist, 4-6th September, 2024, University of Ghana Medical Centre, Legon, Ghana.
f. Participant, From the womb to the tomb: the role of morphologist, international conference of morphologist, 4-6th September, 2024, University of Ghana Medical Centre, Legon, Ghana.
g. Participant, Webinar on Photogrammetry generated 3D models of anatomical structures as a learning tool, Mona Alkhalidi, 22nd October, 2024, international federation of association of anatomist
h. Participant, Webinar on stress Management and Women in politics, 25th September 2024. Organized by Women and Gender Committee, Ghana Registered Nurses and Midwives Association
i. Participant, Advancing sustainable national development through free and quality science education, Bank of Ghana Auditorium, 2-4th September, 2024, UENR, Sunyani, Ghana.
j. Participant, Introduction to Scientific Writing, Prof Beverly Kramer & Prof. Tamara Boto, Thursday 11th May 2023 international federation of association of anatomist
k. Participant, 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR).

2. Dr. Vincentia Sarfo-Brobbey - Conferences

a. Advancing sustainable futures through environment, health, ICT, food security: the role of emerging scientists.
b. Participant, 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR).

3. Diana Hans-Wilson

c. Faculty of Health Science Research Week, Nelson Mandela University: 6 - 8th August 2024
d. Webinar on stress Management and Women in politics, 25th September 2024. Organized by Women and Gender Committee, Ghana Registered Nurses and Midwives Association
e. 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR).
Role: Chairperson for Rapporteur Sub-Committee
f. Participant, Session Facilitator Annual General Meeting and Scientific Session, Paediatric Nurses' Society of Ghana on August 2025 in Tamale.

4. Rosemary Braimah

a. Participant, Tableau masterclass- Data Analysis/Data visualization, 3rd June 2024, Ukeme Isaac, Ultra- kay Tech Systems
b. Participant, systematic review & meta-analysis, 24th-28th June 2024, Prof Orish E. Orisakwe, Virtual participation and ACE- PUTOR complex,
c. Participant, end note workshop, 11th July 2024, Prof Chinedu, Virtual participation and ACE- PUTOR complex, University of Port Harcourt
d. Participant, quarterly webinar on entrepreneurship, technology and innovation, 22nd July 2024, Dr. Obichi Obiajunwa, OdeL Learning Management System.
e. Participant, 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR)

5. Albert Henyo

a. Participant, 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR).

6. Dr. Mohammed Aliu

a. Participant, 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR).

7. Dr. Gilbert Graham Addah

a. Participant, 2nd Edition of International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD). On 20th to 22nd August, 2025 in Sunyani (UENR).

PUBLICATIONS (FOR THE YEAR UNDER REVIEW)

Dr. Ba-Etilayoo Atinga

Publications

1. Atinga, B. E., ten Ham-Baloyi, W., & Radana, N. (2025). Optimizing the quality of nursing care in public hospitals in low-and middle-income countries: an integrative literature review. Applied Nursing Research, 151988.
2. Atinga, B. E., Henyo, A., Ayamga, C. A., Perekuu, T., & Braimah, R. (2025). Exploring Nurses' Experiences and Challenges in Managing Diabetic Amputations: A Qualitative Study. BMC Nursing
3. Ba-Etilayoo Atinga, Albert Henyo, Christiana A. Ayamga , Moses. Mensah, Bismark. Gyan, Helina M. Sarfo, Dione O. Kwakye, Desmond Kuupiel (2024). Facilitators and Barriers to the Implementation of the Girl Iron Folate Tablet Supplementation Program among Adolescent Girls in the Bono Region: A Cross-sectional Survey (under-review). Pan African Medical Journal, doi:10.11604/pamj.2025.50.57.44319
4. Atinga B, Henyo A, Addah G, et al. (December 22, 2024) Lifestyle Adjustments in Diabetic Individuals Following Lower Extremity Amputations: A Qualitative Study. Cureus 16(12): e76188. DOI 10.7759/cureus.76188

5. Atinga, B. E., Sarfo-Brobbey, V., Henyo, A., Ayamga, C. A., Konnyebal, G., Braimah, R., & Perekuu, T. Nurses' Care Attitudes Toward Inmate Patients at Selected Hospitals in the Sunyani Municipality of Ghana: A Qualitative Study. Available at SSRN 5351199.

Dr. Vincentia Sarfo-Brobbey

1. Atinga, B. E., Sarfo-Brobbey, V., Henyo, A., Ayamga, C. A., Konnyebal, G., & Wilson, D. H. (2025). Lived experiences of student nurses during practical examinations in Ghana: a phenomenological study. BMC nursing, 24(1), 1-11.

2. Atinga, B. E., Sarfo-Brobbey, V., Henyo, A., Ayamga, C. A., Konnyebal, G., Braimah, R., & Perekuu, T. Nurses' Care Attitudes Toward Inmate Patients at Selected Hospitals in the Sunyani Municipality of Ghana: A Qualitative Study. Available at SSRN 5351199.

Albert Henyo

1. Atinga, B. E., Henyo, A., Ayamga, C. A., Perekuu, T., & Braimah, R. (2025). Exploring Nurses' Experiences and Challenges in Managing Diabetic Amputations: A Qualitative Study. BMC Nursing
2. Ba-Etilayoo Atinga, Albert Henyo, Christiana A. Ayamga , Moses. Mensah, Bismark. Gyan, Helina M. Sarfo, Dione O. Kwakye, Desmond Kuupiel (2024). Facilitators and Barriers to the Implementation of the Girl Iron Folate Tablet Supplementation Program among Adolescent Girls in the Bono Region: A Cross-sectional Survey (under-review). Pan African Medical Journal, doi:10.11604/pamj.2025.50.57.44319
3. Atinga B, Henyo A, Addah G, et al. (December 22, 2024) Lifestyle Adjustments in Diabetic Individuals Following Lower Extremity Amputations: A Qualitative Study. Cureus 16(12): e76188. DOI 10.7759/cureus.76188

Dr. Gilbert Graham Addah

1. Atinga B, Henyo A, Addah G, et al. (December 22, 2024) Lifestyle Adjustments in Diabetic Individuals Following Lower Extremity Amputations: A Qualitative Study. Cureus 16(12): e76188. DOI 10.7759/cureus.76188

Dr. Mohammed Aliu

1. Aboagye, R. G., Mohammed, A., Duodu, P. A., Adnani, Q. E. S., Seidu, A. A., & Ahinkorah, B. O. (2024). Sex-related inequalities in current cigarette smoking among adolescents in Africa. Substance Abuse Treatment, Prevention, and Policy, 19(1), 41.

2. Adoboi, F., Mohammed, A., Duodu, P. A., Aboagye, R. G., Seidu, A. A., Wongnaah, F. G., & Ahinkorah, B. O. (2024). Sex-related inequalities in crude and age-standardized suicide rates: trends in Ghana from 2000 to 2019. BMC Public Health, 24(1), 1070.
3. Ahinkorah, B. O., Aboagye, R. G., Mohammed, A., Duodu, P. A., Adnani, Q. E. S., & Seidu, A. A. (2024). Socioeconomic and residence-based inequalities in adolescent fertility in 39 African countries. Reproductive Health, 21(1), 72.
4. Atsu, P., Mohammed, A., Adu, C., Aboagye, R. G., Ahinkorah, B. O., & Seidu, A.

A. (2024). Residence-based inequalities in overweight/obesity in sub-Saharan Africa: a multivariate non-linear decomposition analysis. Tropical Medicine and Health, 52(1), 29.
5. Bolarinwa, O., & Mohammed, A. (2025). Bridging gaps in maternity care for women with disabilities: a scoping review of access and utilisation in sub-Saharan Africa adopting the WHO health systems framework. Contraception and Reproductive Medicine, 10(1), 58.
6. Bolarinwa, O., Mohammed, A., Adebisi, Y. A., & Oyewo, O. (2025). Left behind no more: ensuring equitable vaccine access to curb mpox in Africa. International Health, 17(4), 594-596.
7. Bolarinwa, O. A., Mohammed, A., & Igharo, V. (2024). The role of artificial intelligence in transforming maternity services in Africa: prospects and challenges. Therapeutic Advances in Reproductive Health, 18, 26334941241288587.
8. Bolarinwa, O., Mohammed, A., Igharo, V., & Shongwe, S. (2025). Leveraging artificial intelligence for inclusive maternity care: Enhancing access for mothers with disabilities in Africa. Women's Health, 21, 17455057251326675.
9. Bolarinwa, O. A., Odimegwu, C., Babalola, B. I., & Mohammed, A. (2025). A qualitative study exploring the sexual experiences of women with disabilities in Lagos, Nigeria. Sexuality and Disability, 43(1), 2.
10. Bolarinwa, O. A., Odimegwu, C., Mohammed, A., Gayawan, E., & Phiri, M. (2025). Spatial pattern and decomposition analysis of the place of residence and sexual violence among women with disabilities in sub-Saharan Africa. Discover Social Science and Health, 5(1), 84.
11. Bolarinwa, O. A., Odimegwu, C., Mohammed, A., & Gayawan, E. (2025). Spatial modelling of the shared impact of sexual health knowledge and modern contraceptive use among women with disabilities in Africa. Contraception and Reproductive Medicine, 10(1), 16.
12. Mohammed, A., Aboagye, R. G., Duodu, P. A., Adnani, Q. E. S., Wongnaah, F. G., Seidu, A. A., & Ahinkorah, B. O. (2025). Sex-related absolute inequalities in tuberculosis incidence in 47 countries in Africa. BMC medicine, 23(1), 324.
13. Mohammed, A., Ansah, E. W., & Apaak, D. (2024). Prevalence and predictors of workplace sexual harassment of nurses in the Central Region of Ghana: a cross-sectional online survey. BMJ Open, 14(4), e077711.
14. Mohammed, A., Donkoh, I. E., Aboagye, R. G., Ahinkorah, B. O., & Seidu, A. A. (2024). Access to quality contraceptive counselling among adolescent girls and young women in sub-Saharan Africa. Contraception and Reproductive Medicine, 9(1), 16.
15. Odimegwu, C., Bolarinwa, O. A., Mohammed, A., & Gayawan, E. (2025). Spatial pattern and influence of mass media exposure on sexual exposure among women with disabilities in sub-Saharan Africa. Archives of Public Health, 83(1), 232.

Rosemary Braimah

1. Atinga, B. E., Henyo, A., Ayamga, C. A., Perekuu, T., & Braimah, R. (2025). Exploring Nurses' Experiences and Challenges in Managing Diabetic Amputations: A Qualitative Study. BMC Nursing
2. Atinga, B. E., Sarfo-Brobbey, V., Henyo, A., Ayamga, C. A., Konnyebal, G., Braimah, R., & Perekuu, T. Nurses' Care Attitudes Toward Inmate Patients at Selected Hospitals in the Sunyani Municipality of Ghana: A Qualitative Study. Available at SSRN 5351199.

CHALLENGES BEING FACED BY THE DEPARTMENT

The Department has a myriad of challenges that include;

- Lack of offices for lecturers of the department
- Lack of stable lecture halls and classrooms for nursing students
- Lack of standardized computer Laboratory for the licensure examination
- Need for the expansion of the nursing skills laboratory
- Lack of assorted nursing and nursing-related books for referencing
- Need to employ more nursing lecturers.

FUTURE PLANS OF THE DEPARTMENT

- Introduction of Midwifery
- Introduction of other specialties including Paediatric Nursing
- Introduction of Master's programme in Nursing and Midwifery.

C. DEPARTMENT OF COMPUTER SCIENCE AND INFORMATICS

1. INTRODUCTION (ESTABLISHMENT)

The Department of Computer Science and Informatics is one of the oldest Departments in the School of Sciences. The vision of the Department is to fully integrate both the theoretical and practical technologies of computer science to meet the changing demands of the information, communication, and technology industry, particularly in Africa and the World at large.

The Department has staff who undertake Teaching, Research, and Community Service. The impact of the Department's research cuts across multiple areas such as Technology, Agriculture, Education, among others.

2.0 ACADEMIC PROGRAMMES

i. Undergraduate Programmes:

a. Diploma in Computer Science
b. BSc. Computer Science

ii. Postgraduate Programmes

a. MSc. Computer Science
b. MPhil Computer Science
c. PhD Computer Science

3.0 ADMINISTRATION OF THE DEPARTMENT

The Department is manned by the following personnel:

i.	Prof. Patrick Kwabena Mensah	Head of Department.
ii.	Ms. Iris Ashorkor Akrong	Principal Administrative Assistant

STAFF AND STUDENT'S STATISTICS

STAFF POPULATION OF THE DEPARTMENT

S/N	Ranks	Male	Female	Total Number
1	Professor	-	-	
2	Associate Professors	1	-	1
3	Senior Lecturers	3	1	4
4	Lecturers	3	2	5
5	Assistant Lecturers	1	-	1
6	Technical Instructors	-	-	
7	Senior Research Assistant	-	-	
8	Senior Laboratory Technicians/ Technicians	2		2
9	Assistant Registrar	-	-	
10	Principal/Senior Administrative Assistants	-	1	1
	Grand Total	10	4	14

5.2 STUDENT POPULATION OF THE SCHOOL

S/N	Programmes	Total
1	Diploma Computer Science	74
2.	BSc. Computer Science	838
3.	MSc. Computer Science	10
4.	MPhil Computer Science	32
5.	PhD Computer Science	26
	TOTAL	**980**

PUBLICATIONS

DR. OBED APPIAH – SENIOR LECTURER

1. Appiah, O., Hackman, K. O., Diallo, B. A. A., Ogunjobi, K. O., Diakalia, S., Valentin, O., ... (2024). PlanteSaine: An artificial intelligent empowered mobile application for pests and disease management for maize, tomato, and onion farmers in Burkina Faso. Agriculture, 14(8), 1252.
2. Appiah, O., Martey, E. M., Quayson, E., & Opoku, E. (2024). Quick median filtering algorithm for denoising QR code images. Ghana Journal of Technology, 8(1), 11–20.
3. Appiah, O., Martey, E. M. (2024). Concentric blocking techniques for improved feature extraction in Local Binary Pattern (LBP) systems. In Proceedings of the 2024 IEEE 9th International Conference on Adaptive Science and Technology (ICAST).
4. Appiah, O., Martey, E. M., Sitti, M., & Nusetor, F. D. (2024). CBIR framework for diagnosing COVID-19 in chest X-ray images using deep learning by integrating photometric data augmentation. In Proceedings of the 2024 IEEE 9th International Conference on Adaptive Science and Technology (ICAST).
5. Asante, E., Appiah, O., Appiahene, P., & Adu, K. (2024). EfficientMaize: A lightweight dataset for maize classification on resource-constrained devices. Data in Brief, 54, 110261.
6. Codjia, A. K. D., Hackman, K. O., Son, D., Ouedraogo, V., Gandji, K., Sanou, C. L., Appiah O... (2025). PEWS: A pilot early warning system for pest and disease management in Burkina Faso. Journal of Geovisualization and Spatial Analysis, 9(2), 29.*
7. Lartey, D. H., Gyamfi, S., Velenderic, M., & Appiah, O. (2024). Assessment of PV excess generation savings in Ghana considering peer-to-peer energy trading. Energy Sources, Part B: Economics, Planning, and Policy, 19(1), 2372830.*
8. Martey, E. M., Abdullah, A., & Appiah, O. (2024). Predicting student academic performance using an optimised regression machine learning model. In Proceedings of the 2024 IEEE 9th International Conference on Adaptive Science and Technology (ICAST).
9. Martey, E. M., Appiah, O., Akpatsa, S. K., & Antwi-Bekoe, E. (2024). Performance evaluation of EfficientNet variants for image retrieval tasks. Ghana Journal of Technology, 8(1), 21–30.*
10. Okyere-Gyamfi, S., Akoto-Adjepong, V., Adu, K., Ayidzoe, M. A., Appiah, O., ... (2024). Deployment of mobile application using a novel CNN model for the detection of COVID-19 thoracic disease. Scientific African, 26, e02432.
11. Akoto-Adjepong, V., Appiah, O., Mensah, P. K., & Appiahene, P. (2024). TTDCapsNet: Tri Texton-Dense Capsule Network for complex and medical image recognition. PLOS ONE, 19(3), e0300133.

DR. VIVIAN AKOTO-ADJEPONG – SENIOR LECTURER

1. Okyere-gyamfi, S., Asante, M., Missah, Y. M., Peasah, K. O., & Akoto-adjepong, V. (2025). DLCA-CapsNet : Dual-Lane CDH Atrous CapsNet for the Detection of Plant Diseases. 16(7), 659–673. https://doi.org/10.14569/IJACSA.2025.0160764
2. Okyere-Gyamfi, S., Akoto-Adjepong, V., Adu, K., Ayidzoe, M. A., Appiah, O., Appiahene, P., Mensah, P. K., Opoku, M., Bawah, F. U., Awarayi, N. S., Boateng, S.,

Nimbe, P., & Adekoya, A. F. (2024). Deployment of mobile application using a novel CNN model for the detection of COVID-19 thoracic disease. Scientific African, 26, e02432. https://doi.org/10.1016/j.sciaf.2024.e02432

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4. Junior, M. A., Appiahene, P., Missah, Y. M., & Akoto-Adjepong, V. (2024). The use of Efficientnet _ b0 network to identify COVID 19 in chest X ray images. Journal of Electrical Systems and Information Technology. https://doi.org/10.1186/s43067-024-00143-3
5. Akoto-Adjepong, V., Appiah, O., Appiahene, P., & Mensah, P. K. (2023). Texton Tri-alley Separable Feature Merging (TTSFM) Capsule Network for Brain Tumor Detection. International Journal of Advanced Computer Science and Applications, 14(9), 473–483. https://doi.org/10.14569/IJACSA.2023.0140951
6. Mensah, P. K., Akoto-Adjepong, V., Adu, K., Ayidzoe, M. A., Bediako, E. A., Nyarko-Boateng, O., Boateng, S., Donkor, E. F., Bawah, F. U., Awarayi, N. S., Nimbe, P., Nti, I. K., Abdulai, M., Adjei, R. R., Opoku, M., Abdulai, S., & Amu-Mensah, F. (2023). CCMT: Dataset for crop pest and disease detection. Data in Brief, 49(June), 109306. https://doi.org/10.1016/j.dib.2023.109306
7. Nimbe, P., Yeng, P. K., Okyere, E., Weyori, B. A., Adekoya, A. F., Appiahene, P., Nyarko-boateng, O., Nti, I. K., Akoto-Adjepong, V., & Domfeh, E. A. (2022). Innovative Approaches to Classical and Quantum Reflected Binary Code Generation using Pascal Triangle , Reversible N-Input C-Gate and Reversible N-Input Q-Gate. Journal of Algebraic Statistics, 13(3), 4708–4734.
8. Agbedanu, P. R., Umar Bawah, F., Akoto-Adjepong, V., Awarayi, N. S., Nti, I. K., Boateng, S., Nimbe, P., & Nyarko-Boateng, O. (2022). BLOCOVID: A blockchain-based COVID-19 digital vaccination certificate verification system. 8th International Conference on Engineering and Emerging Technologies, ICEET 2022, October. https://doi.org/10.1109/ICEET56468.2022.10007366.
9. Nti, I. K., & Akoto-Adjepong, V. (2021). Enhancing Flood Prediction using Ensemble and Deep Learning Techniques. 22nd International Arab Conference on Information Technology, (ACIT) | 978-1-6654-1995-6/21/2021 IEEE, December. https://doi.org/10.1109/ACIT53391.2021.9677084.
10. Akoto-Adjepong, V., Asante, M., & Okyere-Gyamfi, S. (2020). An Enhanced Non-Cryptographic Hash Function. International Journal of Computer Applications, 176(15), 10–17. https://doi.org/10.5120/ijca2020920014
11. Okyere-gyamfi, S., & Akoto-adjepong, V. (2020). An Enhanced Asymmetric Cryptosystem using Multiple Key System An Enhanced Asymmetric Cryptosystem using Multiple Key System. International Journal of Computer Applications, April. https://doi.org/10.5120/ijca2020920017

MR. NICODEMUS SONGOSE AWARAYI - LECTURER

1. Awarayi, N. S., Twum, F., Hayfron-Acquah, J. B., & Owusu-Agyemang, K. (2024). A bilateral filtering-based image enhancement for Alzheimer disease classification using CNN. Plos one, 19(4), e0302358.

2. Awarayi, N. S., Twum, F., Hayfron-Acquah, J. B., & Owusu-Agyemang, K. (2024). A Neural Architecture Search CNN for Alzheimer's Disease Classification. ECTI Transactions on Computer and Information Technology (ECTI-CIT), 18(4), 543-554.

D. DEPARTMENT OF BIOLOGICAL SCIENCES

1.0 Introduction (Establishment)

The Department of Biological Science (DoBS) of the School of Sciences at the University of Energy and Natural Resources was founded in December 2021 following approval of a proposal submitted by the then Department of Basic and Applied Biology to upgrade its existing units to departments. The department started with 5 faculty (1 Professor, 3 Lecturers, and 1 Assistant Lecturer), 2 Senior Technicians and 4 Teaching Assistants. The Department serves over 400 undergraduates and further services courses in the Department of Medical Laboratory Science and the Department of Nursing. DoBS currently has 3 research groups with 5 projects with competitive extramural funding.
Departments and Research Centres/Institutes

Indicate the activities of the Department, Centre and/or the Institute

Academic Programmes

Department of Biological Sciences, headed by Dr. Thomas Agyei.

1. Undergraduate Programmes:

» BSc. Biological Sciences

vi. Postgraduate Programmes

» MPhil. Biological Science (undergoing GTEC accreditation)
» MPhil. Environmental Scien**ce**

Year	Level 100	Level 200	Level 300	Level 400	
2024/2025	260	194	87	80	621
MPhil Environmental Science					
2024/2025	7	12			19

Research Collaborations (Local and International)

1. University of Tuebingen, Germany
2. University of California San Diego, USA
3. University of Antwerp, Belgium
4. University of Amsterdam, Netherlands
5. University of Oxford, UK
6. Imperial College of London, UK
7. Greenwich University, UK
8. BioGARD Collaboration with University Tubingen and University of Hohenheim
9. University of Greenwich UK,
10. University of California San Diego USA
11. Global Change Research Institute (CzechGlobe) of Czech Academy of Sciences,

CAS, Brno, Czech Republic

Workshops/Conferences/Public Lectures

1. Ghana Science Association Training workshop on STEM education (June, 2024, UENR)
2. Canopy Access Workshop: Tree Climbing for Canopy Research. 10th - 19th May, 2024 Sunyani, Ghana
3. STHISD International conference 2ND Edition(Advancing Susutainable Features through Environment, Health, ICT and Food Security: The Role of Emerging Scientists, UENR, Ghana (August 2025)
4. Research Dissemination Workshop for the PheDEF Project (Phenological Dataset for Ecological Forecasting).(July 2025)
5. Global Change Research Institute (CzechGlobe) of Czech Academy of Sciences, CAS, Brno, Czech Republic
6. Training programme for Deans, Directors, Heads of Departments, and Centres on leadership development. Bank of Ghana Auditorium: 5th September, 2024.

Proposals

1. Three steps to Improved Agroforestry Management through Innovation: Capacity Development, Multiple Values, and Transparency and Traceability, along the Value Chain.
2. Biting patterns, seasonal abundance and blood meal host preference of Anopheles stephensi mosquito vectors in urban dwellings of Accra, Ghana (submitted to Royal Society of Tropical Medicine and Hygiene early career grants calls).

Funding of Research Activities
Research Activities are funded by;

1. WHO/PATH
2. Bill and Melinda Gates Foundation
3. ARNTD/USAID grant
4. Royal Society of Tropical Medicine and Hygiene
5. International Federation for Science

Publications (for the year under review)

1. Bright, O. A., Samuel, D. N., Adisa, M. A., Dorcas, O. O., Perez, Q., Melody, A. A., Micheal, A. K., Albert, O. S. & Senu, E. (2024). Clearing Properties Between Coconut Oil and Xylene in Histological Tissue Processing. Journal of Histochemistry & Cytochemistry, 72 (4), 233-243
2. Kumi, S., Nsiah, P.K., AHIABU, H.K., Ofosu-Bamfo, B., Asigbaase, M., Anning,A.K. and Amponsah, G., 2024. Forest Landscape Restoration-induced Changes in Land Cover and Woody Plant Community Structure in a Degraded Forest Reserve in Ghana. Trees, Forests and People, p.100578.
3. Dossa, G.G., Adhikari, S., Cao, K.F., Chen, Y.J., Codjia, J.E.I., Corlett, R.T., Dong, J., Fan,Z.X., Khatri, P., Kiki, M., Li, H.L., Ling, T.C., Liu, G., Majcher, B.M., Nisar, N., Njoroge, D. M., Ofosu-Bamfo, B., Pearce, S., Roeder, M., Schaefer, D.A., Schnitzer,

S.A., Smith-Martin, C.M., Thu, W.P., Tomlinson, KW., Xu, S.Y., Zakari, S., Zhang, J.L., Zhang, Y.B.., Zotz, G., Zuo, J. and Cornelissen, J.H.C. 2024. Lianas from lives to afterlives: 1st International workshop on liana forest ecology, Xishuangbanna, China, 12–16 October 2023.

4. Dossa, G.G., Li, H.L., Pan, B., Ling, T.C., Schaefer, D.A., Roeder, M., Njoroge, D.M., Zuo, J., Song, L., Ofosu-Bamfo, B. and Schnitzer, S.A., Harrison, R.D., Bongers, F., Zhang, J.L., Cao, K.F., Powers, J.S., Fan, Z.X., Chen, Y.J., Corlett, R.T., Zotz, G., Oleksyn, J., Wyka, T.P., Codjia, J.E.I., Cornelissen, J.H.C., 2024. Effects of lianas on forest biogeochemistry during their lives and afterlives. Global Change Biology, 30(4), p.e17274.
5. Bright, O. A., Samuel, D. N., Adisa, M. A., Dorcas, O. O., Perez, Q., Melody, A. A., Micheal, A. K., Albert, O. S. & Senu, E., 2024. Clearing Properties Between Coconut Oil and Xylene in Histological Tissue Processing Journal of Histochemistry & Cytochemistry 72 (4), 233-243
6. Quek S, Hadermann A, Wu Y, De Coninck L, Hegde S, Boucher JR,…Otabil KB, Matthijnssens J, Colebunders R & Taylor MJ, 2024, Diverse RNA viruses of parasitic nematodes can elicit antibody responses in vertebrate hosts,Nature Microbiology
7. Abdul-Karim Iddrisu, Dominic Otoo, Gordon Hinneh, Yakubu Dekongmene Kanyiri, Kanimam Yaaba Samuel, Cecilia Kubio, Francis Balungnaa Dhari Veriegh, 2024, Identifying Malaria Hotspots Regions in Ghana Using Bayesian Spatial and Spatiotemporal Models, Infectious Diseases & Immunity, Issue2, Volume 4, Pages 69-78.DOI: 10.1097/ID9.0000000000000116
8. Himal Shrestha, Karen McCulloch, Rebecca H Chisholm, Samuel K Armoo, Francis Veriegh, Neha Sirwani, Katie E Crawford, Mike Y Osei-Atweneboana, Warwick N Grant, Shannon M Hedtke, 2024. Synthesizing environmental, epidemiological and vector and parasite genetic data to assist decision making for disease elimination,Molecular Ecology,Issue 11, Volume 33, Pages e17357,https://doi.org/10.1111/mec.17357

Community Engagements

1. Forged ties with industrial partners for student attachment. These include Bia Biosphere Reserve, Ghana Water Company Ltd, Ghana Nuts Company, Environmental Protection Agency, Forestry Commission, etc.
2. The department has partnered with the American Society of Microbiology to set up a local chapter of the Society on the UENR campus.
3. The Department (through the NeTroDisOH Research Group) has been selected as an official partner for the World Neglected Tropical Diseases (NTD) Day.

Visits

1. Prevalence of scabies and community knowledge, attitudes and practices on the disease in the middle belt of Ghana:Joint Parasitology Spring Meeting, Germany,11-14 March 2025
2. Seroprevalence of Treponema pallidum antibodies and community knowledge, attitudes, and practices related to yaws in the middle belt of Ghana: A quantitative cross-sectional study- Second WHO Skin NTDs Meeting-Switzerland, 24-26 March 2025

3. Molecular detection and sequencing of the genes encoding the predicted enzymes; Amidase, NADH ubiquinone- oxidoreductase, and sodium neurotransmitter symporter in Onchocerca volvulus- European Society of Clinical Microbiology and Infectious Diseases Global Conference, Austria,11–15 April 2025

E. DEPARTMENTS OF MEDICAL LABORATORY SCIENCE

INTRODUCTION (ESTABLISHMENT)

The Department of Medical Laboratory Science was carved out of the then Department of Basic and Applied Biology in February 2022. This was done to improve academic outcomes, spur growth, and build on existing gains. Since its establishment, the Department has graduated over 500 well trained Medical Laboratory Scientist and continues to train more.

ACTIVITIES

The Department participated in the 2nd edition of the School of Science' international Science Conference which was held from 20th-22nd August, 2025 at the RCEES Auditorium in UENR, Sunyani.

ACADEMIC PROGRAMMES

The department currently runs one undergraduate programme, which is BSc Medical Laboratory Science (Regular and weekend top-up)

STAFF STATISTICS

The Department currently has two Senior Lecturers, three Lecturers, one Assistant Lecturer, one Principal Administrative Assistant, and two Senior Laboratory Technicians, (of whom, one is on contract) as indicated below;

NAME	QUALIFICATION	DESIGNATION	AREA OF SPECIALIZATION
Dr. George Owusu	Ph.D. Pharmacology	Senior Lecturer	Pharmacology
Dr. Emmanuel Timmy Donkoh	PhD. Chemical Pathology	Senior Lecturer	Chemical Pathology
Ms. Dorice Akosua Serwaa Berkoh	Ph.D. Chemical Pathology	Lecturer	Chemical Pathology/ Biochemistry
Bright Afriyie Owusu	MPhil. Histopathology	Lecturer	Histopathology
Mr. Akwasi Asamoah	MPhil Haematology	Assistant Lecturer	Immuno Haematology
Ms. Banleman Banan	MSc. Medical Laboratory Sciences	Senior Laboratory Technician	Histotechnology/ Cytotechnology
Mr. Ransford Mawuli Tuekpe	BSc. Medical Laboratory Sciences	Senior Laboratory Technician	

Ms. Mary Magdalene Suurbeteyiir Tanguo	Master of Public Administration	Principal Administration Assistant	Administration

STUDENTS STATISTICS

The Department has about 810 students from levels 100 to 400, including weekend top-up students.

LEVEL	TOTAL
LEVEL 100	158
LEVEL 200	179
LEVEL 300	319
LEVEL 400	154
GRAND TOTAL	**810**

WORKSHOPS/CONFERENCES/PUBLIC LECTURES

Dr. George Owusu

1. December, 2024 - British Pharmacological Society Annual Meeting, Harrogate, England.
2. October, 2024 - Royal Society of Tropical Medicine and Hygiene Annual Meeting, London, England.
3. International Conference on Science, Technology & Health Innovation for Sustainable Development (STHISD) – UENR

Mr. Akwesi Asamoah

1. College of Health Sciences 10th Biennial Conference – KNUST
2. International Conference on Science, Technology & Health Innovation for Sustainable Development (STHISD) – UENR

PROPOSALS

Mr. Akwesi Asamoah

1. Frequency & Severity of ABO haemolytic disease of the newborn in neonates born to group O mothers at Komfo Anokye Teaching Hospital
2. Reclamation of water polluted by illegal small-scale gold mining (galamsey): a green technology approach (REWAGG)

GRANT AND AWARDS

Mr. Akwesi Asamoah

University of Energy and Natural Resources (UENR) Grant Funding Programme (GFP) by The Centre for Grants, Research and Innovation (CeGRI)

FUNDING OF RESEARCH ACTIVITIES

Mr. Akwesi Asamoah

1. CEGRI Grant Funding Scheme
2. Personal

PUBLICATIONS (FOR THE YEAR UNDER REVIEW)

Dr. George Owusu

1. George Owusu, Meshack Antwi-Adjei*, Jones Ofori-Amoah, Ransford Mawuli Tuekpe, Adjei Emmanuel Mainoo, Dorothy Kodua, Anatua Abigail and Oppong Millicent. Prevalence of herbal medicine consumption and regulatory compliance in some selected districts of the Bono region, Ghana. BMC Complementary Medicine and Therapies (2025) 25:202. https://doi.org/10.1186/s12906-025-04953-4
2. George Owusu, Abdul-Karim Iddrisu, Meshack Antwi-Adjei, Theophilus Anane Asare, Patience Gyekyebea, Raphael Opoku-Kusi, Emmanuel Effah & Ransford Mawuli Tuekpe. Assessment of the prevalence and praziquantel effectiveness and risk factors of urogenital schistosomiasis among school-aged children in Pru East, Ghana. Scientific Reports (2025) 15:19376. https://doi.org/10.1038/s41598-025-96653-9 3
3. Owusu, G., Antwi-Adjei, M., Musa, B., Fosu, C. A., Nyamedi, G., Kwabena, A. K., … Osafo, N. (2025). The hepatoprotective effects of hydroethanolic stem bark extract of Cleistopholis patens in paracetamol-induced hepatotoxicity in rats. Journal of Herbs, Spices & Medicinal Plants, 1–23. https://doi.org/10.1080/10496475.2025.2528078
4. Meshack Antwi-Adjei, Benjamin Aboagye, Ernest Obese, Elvis Ofori Ameyaw, Emmanuel Awintiig Adakudugu, Benjamin Amoani, Yakubu Jibira, Roberta Antwi-Adjei, George Owusu, Daniel Anokwah. In vitro antioxidant and antiarthritic effects of Persicaria lanigera R. Br. Soj´ak (Polygonaceae) leaf extract in complete Freund's Adjuvant-induced rheumatoid arthritis model via immunomodulatory regulation of NF-κB, IL-1β, TNF-α, and COX-2 signalling pathways. Pharmacological Research - Natural Products 6 (2025) 100151. https://doi.org/10.1016/j.prenap.2025.100151
5. Adu WA, Ativui S, Ofori M, Owusu G, Danquah CA, Poku Sampene Ossei P. Diosgenin ameliorates silica-induced tuberculosis in rats. Anim Models Exp Med. 2025; 00:1-10. doi:10.1002/ame2.70055.
6. George Owusu, Emmanuel Nyampong, David Hadah, Daniel Boaheng, Bright Afriyie Owusu, Benard Elikplim Petershie. Ethanolic leaf extract of Solanum mauritianum promotes fibroblast proliferation and neovascularization in wound excision model in rats. Scientific African 24 (2024) e02198
7. Abdul-Karim Iddrisu*, George Owusu*, Samuel Kofi Doe, Augustine Apraku Yeboah, Joseph Agyapong, Nicholas Yankey. Uropathogens and their antibiotic susceptibility patterns among diabetic patients at St. John of God Hospital, Duayaw Nkwanta, Ghana: a cross-sectional study. Health Sci. Rep. 2024;7:e70072. https://doi.org/10.1002/hsr2.70072.
8. Jones Ofori-Amoah, Cynthia Amaning Danquah, Kwesi Boadu Mensah, Emmanuel Akomanin Asiamah, George Owusu, Jones Lamptey, Michael Frimpong Baidoo. The hydro-ethanolic extract of Scoparia dulcis Linn inhibits allergic airway inflammatory responses in murine asthma models. Phytomedicine Plus 4 (2024) 100607. https://doi.org/10.1016/j.phyplu.2024.100607

Mr. Akwesi Asamoah

1. Berkoh, D. A., Donkoh, E. T., Asamoah, A., Sakibu, R. A., & Ngala, R. A (2024). Effect of Tropical Vegetable Oil Consumption on Lipid Profile and Glycaemic Control in Type 2 Diabetics. Trends in Medical Research, 19(1): 247-284
2. Bainin, I., Adu, R. O., Abdallah, F., & Asamoah, A (2024). Assessing the Level of Knowledge and Adherence to Environmental and Occupational Health and Safety among Artisans in Bibiani Anhwiaso Bekwai District, Ghana. Humanities, 9(1), 1-23.
3. Gyasi, S. F., Donkoh, E. T., Asamoah, A., Raji, A. S., Adu, R. O., Essumang, D., & Ablordey, A. (2024). Isolation and assessment of Pseudomonas aeruginosa and Bacillus cereus as PCB-degrading bacteria in environmental bioremediation. Scientific African, 23, e02083.

Mr. Ransford Mawuli Tuekpe

1. Ashorm, G., Ntiamoah Ofosu, N., Asamoah, A., Tuekpe, R. M., Appiah, S., Asare, W. S., Agyemang, G. O., Amoah, A., Abdul, G., Obirikorang, C. (2024). Malaria's association with ABO blood groups in a tertiary institution in Ghana. Journal of Energy and Natural Resource Management (JENRM) (Vol. 10, Issue 1, pp. 25–30) [Journal-article]. https://doi.org/10.26796/jenrm.v10i1.253.

FUTURE PLANS OF THE DEPARTMENT

The Department plans to develop M.Phil. programmes in Clinical Microbiology and Biochemistry and also upgrade the undergraduate programme from BSc. Medical Laboratory Science to Doctor of Medical Laboratory Science.

F. DEPARTMENT OF CHEMICAL SCIENCES

1.0 INTRODUCTION

The Department of Chemical Sciences at UENR is one of the finest departments of Chemistry in Africa. We are dedicated to the creation of knowledge in all branches of chemistry and the development of human capital and leadership for the advancement of Ghana, Africa and the world. The Department is home to very highly qualified faculty and extremely motivated students. The department is also dedicated in developing talents in the students and equipping them with soft skills.

1.1 Vision Statement

To become a leading department recognized for its excellence in research, innovation, scholarship and collaboration

1.2 Mission Statement

To foster and nurture frontiers in the Chemical Sciences by attracting astute faculty and top-caliber students that will strive to provide solutions to critical energy and natural resources challenges in Ghana and beyond.

1.3 Approved Strategic Plan

1) To increase students' enrolment by 50%.
2) Publish at least 25 articles in high impact journals yearly.
3) Apply and win grants to support research.
4) Start consultancies to generate income for the department and university at large.

Academic Programmes

V. Department of Chemical Sciences, Headed by Dr Alfred K. Bienibuor

i. Undergraduate Programmes:

a. BSc. Chemistry
b. BSc. Biochemistry

ii. Postgraduate Programmes

a. MPhil Chemistry

Administration of the Department

The Department's Administration is constituted by the following personnel:

1. Dr Alfred K. Bienibuor Head of Department
2. Ms. Fatima Dadzie Principal Administrative Assistant

Staff and Students Statistics

i. Student Statistics:

Student Category	Number of Students
Undergraduate	Chemistry- 59, Biochemistry- 253
Postgraduate	MPhil Chemistry -23
Total	**335**

ii. Staff Statistics:

Staff Category	Number of Staff
Full Professor	1
Associate Professor	0
Senior Lecturer	5
Lecturer	5
Assistant Lecturer	3
Lab. Technicians	3
Administrative Assistant	1
Total	18

Research Collaborations (Local and International)

» Ismaila Emahi

1. Project Title: Aptamer-Modified Biogenic Materials for Effective Water Purification

Collaborator: Professor Rainer Haag, Freie Universitat Berlin, Germany

2. Project Title: Identification and Characterization of DNA Aptamers for Toxic Metals

Collaborator: Professor Gunter Mayer, University of Bonn, Germany

3. Project Title: Electrode Modification Strategies for Electrochemical Detection of Nitrates and Heavy Metals in Water

Collaborator: Dr. Jenny Zhang, University of Cambridge, England

» Raphael Lartey Abban

4. Dr Abiola Isawumi, University of Ghana, Ghana
5. Mrs Priscilla Essandoh, University of Health and Allied Sciences, Ghana
6. Mr Stephen Kusi, University of Energy and Natural Resources, Ghana
7. Dr Sachel Mok, Columbia University Irving Medical Centre, United States of America

Workshops/Conferences/Public Lectures

» **Ismaila Emahi**

1. Emahi, I. Advancing Biogenic Materials for Water Purification: Progress and New Directions in Toxic Metal Detection and Removal. Fellows' Seminar, Stellenbosch Institute for Advanced Study (STIAS). May 27, 2025

2. Wood, M. H., Willyam, S. J., Zhang, Z. & Emahi, I.. Further proof that the arsenic aptamer may not bind specifically to arsenic. Fall 2024 American Chemical Society (ACS) National Meeting and Exposition, Denver, CO, USA. August 21, 2024

» **Benjamin Darko Asamoah**

3. 21st Annual Conference of the Ghana Chemical Society (GCS), Kwame Nkrumah University of Science and Technology (KNUST), Kumasi-Ghana, 29 September – 03 October 2025.
4. 34th Biennial Conference of the Ghana Science Association (GSA), University of Development Studies (UDS), Tamale, 23rd-25th September 2025.
5. International Conference on Science, Technology, and Health Innovation for Sustainable Development" (STHISD), Tyco City Hotel, Sunyani, 20th to 22nd August, 2025.
6. Isotopes in Environmental Studies: Basic Principles, Data Analysis, and Analytical Methods using Laser Spectroscopy, Ghana Atomic Energy Commission, Accra, Ghana, 21st – 25th July, 2025.
7. The North America 45th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) conference in Washington, DC, October 20-24, 2024.

» Patrick Opare Sakyi

8. Participant of the 21st Annual Conference of the Ghana Chemical Society, September 29 – October 3, 2025, Allotey Auditorium, College of Sciences, KNUST.
9. Poster presentation on the 3 days 2nd Edition of the International Conference on Science, Technology and Health Innovation for Sustainable Development, August 20 – 22, 2025, University of Energy and Natural Resources, Sunyani.

» **Raphael Lartey Abban**

1. WACCBIP International Research Conference 2025, University of Ghana

Proposals

» **Ismaila Emahi**

I submitted 3 proposals between August 2024 and October 2025

1. Innovative Filter Materials from Combination of Local Biomaterials for Sustainable Water Purification in Ghana. Submitted to Daimler-Benz Foundation Grant in December 2024. (unsuccessful)
2. Investigating the Selectivity of Agricultural Waste Adsorbents towards various Metal ions in Water. Submitted to US Department of State in September 2024. (funded)
3. Aptamer-Modified Biogenic Materials for Toxic Metal Detection and Removal (AMBITION). Submitted to Alexander von Humboldt Foundation in January 2025 (pending decision)

Grant and Awards

» **Ismaila Emahi**

1. Iso Lomso Fellowship Award, March – June 2025, Stellenbosch Institute for Advanced Study, Stellenbosch University, South Africa
2. Biochemical Society Travel Grant for Lab Visits, September-December, 2025

Publications (for the year under review)

» Alfred Kpebesaan Bienibuor

1. Bienibuor, A. K., Preko, K., Aning, A. A., Menyeh, A., Wemegah, D. D., & Appiah, M. K. (2025). Groundwater potential and quality assessment of the Oti Pendjari and Obosum Groups of the Atebubu municipality. Applied Water Science, 15(8), 195.
2. Bienibuor, A. K., Preko, K., Aning, A. A., Menyeh, A., Wemegah, D. D., Appiah, M. K., & Gyilbag, A. (2025). Application of the electrical resistivity tomography (ERT) method in identifying high groundwater potential sites in the Atebubu municipality of Ghana. Discover Geoscience, 3(1), 14.
3. Appiah, M. K., Danuor, S. K., & Bienibuor, A. K. (2024). Performance of Continuous Wavelet Transform over Fourier Transform in Features Resolutions. International Journal of Geosciences, 15(2), 87-105.
4. Appiah, M. K., Danuor, S. K., Bedu-Addo, S., & Bienibuor, A. K. (2024). Turbidite Dynamics and Hydrocarbon Reservoir Formation in the Tano Basin: A Coastal West African Perspective. International Journal of Geosciences, 15(2), 137-161.

» **Ismaila Emahi**

5. Emahi, I., Boakye, A., Yram, D., Bensah, Y. D., Asamoah, B. D. and Amebletor P. A (2025). Surface-mediated leaching of calcium and magnesium from raw coconut shell powder: Thermodynamic and spectroscopic insights. Results in Surfaces and Interfaces, 21, 100659. https://doi.org/10.1016/j.rsurfi.2025.100659

6. Safo-Adu, G., Attiogbe, F., Ofosu, F. G., Emahi, I., Palm, L.N.D.M., and Enimil, E. (2025). Polycyclic aromatic compounds in ambient PM2.5 in the central region of Ghana: Molecular distribution, origin and cancer risk assessment. Atmospheric Environment, 343 (2025) 120973.

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10. Boakye, A., Attiogbe, F., and Emahi, I. (2024). Crescentia Cujete Fruit Shell as Green and Efficient Coagulant for Water Purification. Cleaner Water, 1(2024), 100009.

» **Benjamin Darko Asamoah**

11. Ismaila Emahi, Augustine Boakye, Bernice Yram Danu, Benjamin Darko Asamoah, Pamela Amegbletor (2025). Surface-mediated leaching of calcium and magnesium from raw coconut shell powder: Thermodynamic and spectroscopic insights. Results in Surfaces and Interfaces, 21, 2666-8459, https://doi.org/10.1016/j.rsurfi.2025.100659.
12. Benjamin Darko Asamoah, Barnabas Awortwe, Lawrence Sheringham Borquaye, Matt Dodd, Godfred Darko (2025). Source Apportionment of Potentially Toxic Elements in Topsoils Across Some Mining-Impacted Communities in Ghana Using the Positive Matrix Factorization Model. Soil and Sediment Contamination: An International Journal, 1–17. https://doi.org/10.1080/15320383.2025.2574273.
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14. Benjamin Darko Asamoah, Lily Lisa Yevugah, Lawrence Sheringham Borquaye, Matt Dodd, Godfred Darko (2024). Spatial distribution, bioaccessibility, and human health implications of potentially toxic elements in mining-impacted topsoils in

Obuasi Municipality of Ghana. Environ Geochem and Health, 46 (8), 1-13, https://doi.org/10.1007/s10653-024-02028-w.

» **Patrick Opare Sakyi**

15. Lamptey E., Ofosu B., Hanson G., Sakyi P. O., Partey F., Miller A. W., Kwofie K. S., Mensah-Brown E. H. (2025). Blocking Plasmodium Merozoite Invasion of Red Blood Cells: Molecular Docking Analysis of Small Molecule Inhibitors of the RH5-CyRPA-RlPR Complex. Jou. Comp. Biop. and Chem, 24(8): 1039-1062. https://doi.org/10.1142/ S2737416525500097.

16. Sakyi, P. O., Kwofie, S. K., Gwira, T.M. Moore C., Amisigo C., Broni E., Miller W. A., Wilson M. D., Amewu R. K. (2025). Molecular docking, design, synthesis and in vitro analysis identify [1,2,4]triazolo[4,3-b]pyridazine derivatives as inhibitors of Leishmania donovani sterol methyltransferase. J Parasit Dis. https://doi.org/10.1007/s12639-025-01849-5
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19. Arthur MN, Hanson G, Broni E, Sakyi P.O., Mensah-Brown H, Miller WA III, Kwofie SK. (2025). Natural Product Identification and Molecular Docking Studies of Leishmania Major Pteridine Reductase Inhibitors. Pharmaceuticals. 18(1):6. https://doi.org/10.3390/ph18010006.

» **Charles Kwame Bandoh**

20. Haruna, M., Bandoh, C. K., Opoku, F., & Agorku, E. S. (2025). Ab initio and experimental study of sulphur/samarium codoped-TiO2 and its visible light photocatalytic activity towards the degradation of orange II dye. Next Sustainability, 6, 100155. https://doi.org/10.1016/j.nxsust.2025.100155
21. Bandoh, C. K., Haruna, M., Adu, D., Bernice, P., Danu, Y., Pinto, O., Toku, M., Badu, M., Agorku, E. S., Ampong, F. K. & Nkum, K. R. (2025). Gd doped ZnO g C3N4 nanocomposite : A novel photocatalyst for the photodegradation of eosin yellow dye in water. Discover Applied Sciences, 7(272). https://doi.org/10.1007/s42452-025-06759-y
22. Bandoh, C. K., Adu-Poku, D., Haruna, M., Pinto, O., Danu, B. Y., Tutuwaa, A., Agorku, E. S., & Ampong, F. K. & Nkum, R. K. (2025). The influence of cobalt and graphitic carbon nitride on the efficiency of zirconium oxide for photodegradation of an organic dye in wastewater. Journal of Chemical Research, 49(1). https://doi.org/10.1177/17475198251316376.
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carbon nitride heterostructures for photocatalytic degradation of eosin yellow dye in water. Next Materials, 6, 100424. https://doi.org/10.1016/j.nxmate.2024.100424

Visits

» **smaila Emahi**

1. Mar - Jun 2025 Iso Lomso Fellow, Stellenbosch Institute for Advanced Study, South Africa
2. Sep - Oct 2024 Guest Scientist, Institute of Chemistry, Freie Universität Berlin, Germany

» **Raphael Lartey Abban**

3. Research visits Drexel University, United States of America

Future Plans of the Department

Department's Future Plans

1. Admissions Drive
2. Income Generation for the Department
3. Departmental App
4. Investments to support the Department
5. The Department is developing three (3) new programs, BSc. Material Science, BSc. Geophysics, BSc. & Dip. Applied Science and Technology, MPhil Biochemistry
6. Increase in industrial collaborations

G. DEPARTMENT OF INFORMATION TECHNOLOGY AND DECISION SCIENCES

INTRODUCTION

The Department, despite being one of the youngest in the University, boasts the largest student population. With an impressive enrollment of over 2,064 students and continuing to grow, it has established itself as a vibrant and expanding academic unit.

MISSION

To build a modern department capable of training Technology professionals who are practically oriented and can be globally competitive in this digital era.

VISION

The Department of Information Technology will train students who are practically oriented through research and the teaching of theory for the technology industry, providing them with a competitive advantage in the global market through the creative and innovative use of Information Technology and services, and will help them become leaders in the global Digital Transformation era.

Academic Programmes

i. Undergraduate Programmes:

k. BSc Information Technology

l. Diploma in Information Technology
ii. Postgraduate Programmes
a. MPhil Information Technology
b. MSc. Information Technology

PHD in Information Technology postgraduate Programme have been developed and approved by the University, waiting for GTEC approval

DEPARTMENT ADMINISTRATION

The following administrative staff members manage the Department of Information Technology and Decision Sciences:

1. Head of Department: Prof. Peter Appiahene (Commissioner)
2. Senior Administrative Assistant: Miss Felicia Akoto-Danso.

ACADEMIC STAFF OF THE DEPARTMENT

Senior Members

	NAME	Rank
1.	Commissioner Prof. Peter Appiahene	Associate Professor
2.	Dr. Anokye Acheampong Amponsah	Senior Lecturer
3.	Dr. Kwabena Adu	Lecturer
4.	Dr. Samuel Frimpong	Lecturer
5.	Mr. Michael Opoku	Lecturer
6.	Emmanuel Adjei Domfeh*	Assistant Lecturer
7.	Mr. Jacob Mensah	Assistant Lecturer
8.	Mr. Micheal Ayitey Jnr.	Assistant Lecturer

Study leave

Part-Time Senior Members

NAME	DESIGNATION	Rank
1. Mr. Andrene Nii Ayitey	Assistant Lecturer	Associate Professor
2. Mr. Emmanuel Botchway	Assistant Lecturer	Senior Lecturer
3. Mr. Gyimah Kopri	Assistant Lecturer	Lecturer
4. Dr. John Kwao Dawson	Lecturer	Lecturer
5. Dr.Afful Ekow Kelly	Lecturer	Lecturer
6.Mr. Vincent Amankona	Assistant Lecturer	Assistant Lecturer
7. Mr. Philip Sarfo-Manu	Assistant Lecturer	Assistant Lecturer

8.Mr. Steve Okyere-Gyamfi	Assistant Lecturer	Assistant Lecturer

Senior Staff

	NAME	DESIGNATION
1.	Mr. Henry Mettle Nii- Armah	Senior Research Assistant
2.	Mr. Derek Kumah Kwasi Selasi	Senior Research Assistant
3.	Miss Benedicta Nyarko Acquah – Annin	Senior Research Assistant
4.	Miss Farida Osman	Senior Research Assistant
5.	Mr. Doorwodoe James	Senior Technician
6.	Mr. Richard Ansah-Sarpong	Senior Technician
7.	Mr. Jonathan Nkrumah	Senior Technician
8.	Mr. Emmanuel Asante	Senior Technician

Resignation

NAME		DESIGNATION
1.	Mr. Stephen Afrifa	Senior Research Assistant
2.	Mr. Enoch Justice Arthur	Senior Technician
3.	Ms. Ernestina Kisswaa	

2. Students Statistics (Table 2)

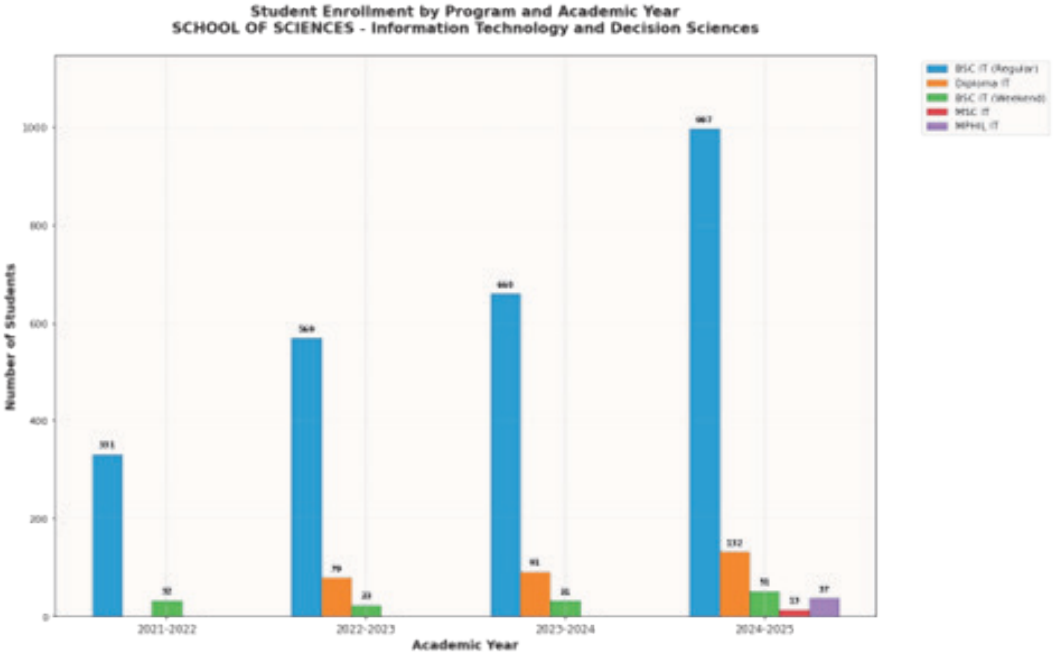
Level of Students	Total Number of Students
Level 100	21
Level 200	58
Level 300	53
Level 400	29
Total	161

STUDENT STATISTICS/POPULATION IN THE DEPARTMENT

STATISTICS/POPULATION IN THE DEPARTMENT

	2024-2025 (YEAR 1)			2023-2024 (YEAR 2)				2022-2023 (YEAR 3)				2021-2022 (YEAR 4)		
	Male	Female	Total	Male	Female	Total	Male		Female	Total	Male		Female	Total
BSc Information Technology	776	221	997	514	146	660	435		134	569	260		71	331
Diploma Information Technology	94	38	132	72	19	91	63		16	79				
	870	259	1129	586	165	751	498		150	648	260		71	331
Department Total														
WEEKEND														
Bsc Information Technology	44	7	51	25	6	31	18		5	23	27		5	32
	44	7	51	25	6	31	18		5	23	27		5	32
Department Total														
POSTGRADUATE														
MSC Information Technology	12	1	13											13
MPHIL Information Technology	33	4	37											37
Department Total	45	5	50											
Grand Total = Regular (2,859) + Weekend (137) + Postgraduate (50) = 3,046														

STUDENT STATISTICS/POPULATION IN THE DEPARTMENT

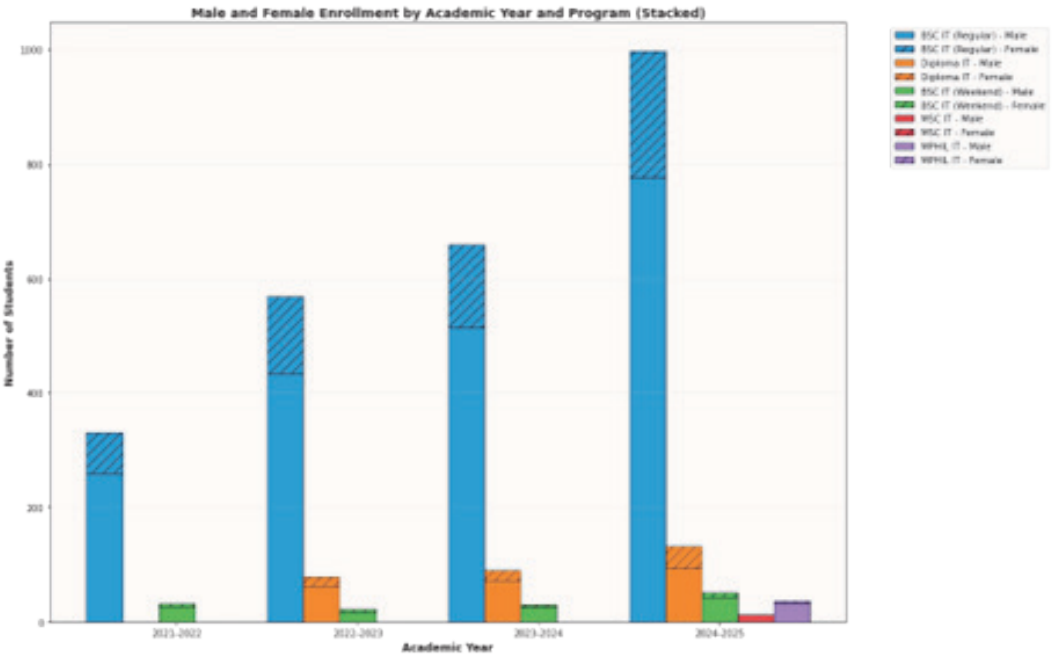


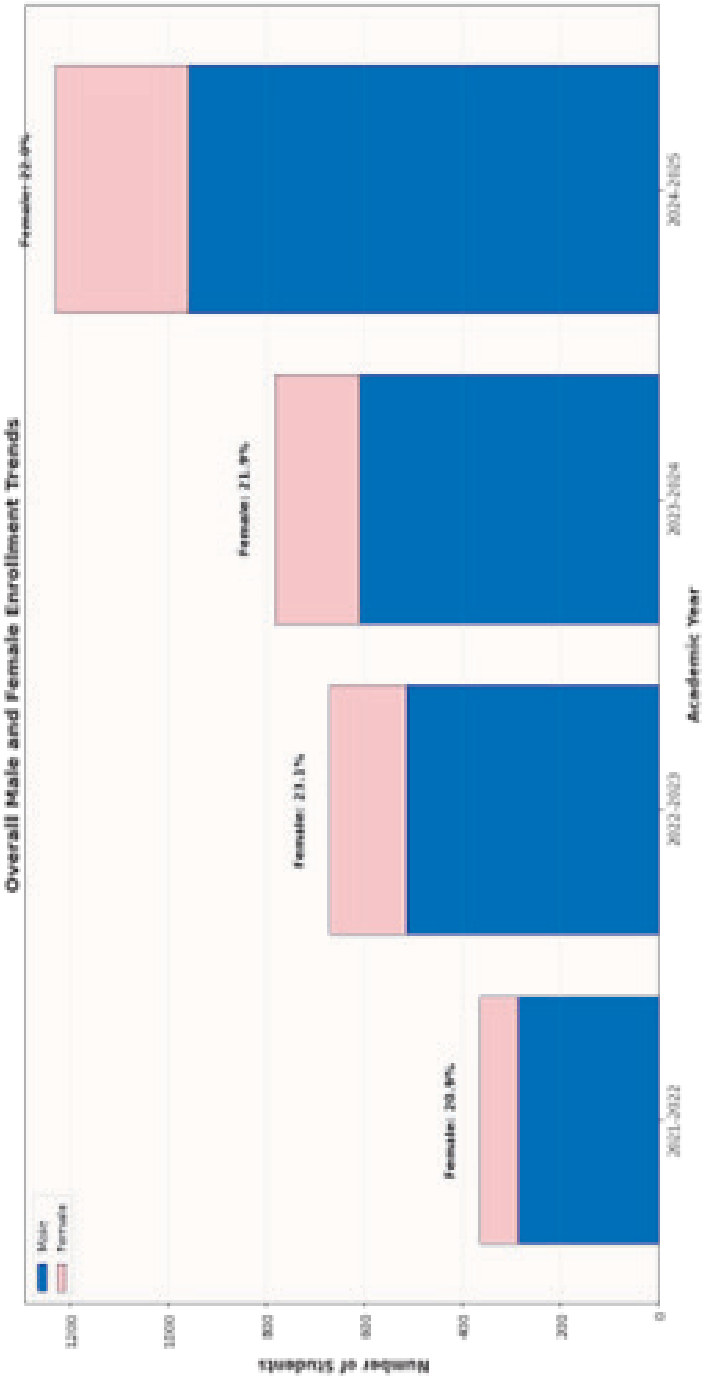
ENROLLMENT ANALYSIS	
BSC IT (Regular)	Total student (all years): 2,257
	2024-2025 Enrollment: 997
	Growth since 2021-2022: +201.2%
Diploma IT:	Total student (all years): 302
	2024-2025 Enrollment: 132
	Growth since 2021-2022: +67.1%
BSC IT (Weekend):	Total student (all years): 137
	2024-2025 Enrollment: 51
	Growth since 2021-2022: +59.4%
MSC IT:	Total student (all years): 13
	2024-2025 Enrollment: 13

MPHIL IT:	Total student (all years): 37
	2024-2025 Enrollment: 37
Total Enrollment by Academic Year	2021-2022: 363 students
	2021-2022: 671 students
	2021-2022: 782 students
	2021-2022: 1230 students

Overall Statistics:

- Total students across all programs and years: 3,046
- Most popular program: BSC IT (Regular) (2,557 students)
- Program with highest 2024-2025 enrollment: BSC IT (Regular)




Overall Male and Female Enrollment Trends
Male
Female
Female: 20.4%
Female: 23.1%
Female: 21.9%
Female: 22.4%
2021-2022
2022-2023
2023-2024
2024-2025
Academic Year
Number of Students
0
200
400
600
800
1000
1200

```
Gender Distribution Analysis:
================================================================================

2021-2022:
  Male: 287 (79.1%)
  Female: 76 (20.9%)
  Total: 363
  Gender Ratio (M:F): 3.8:1

2022-2023:
  Male: 516 (76.9%)
  Female: 155 (23.1%)
  Total: 671
  Gender Ratio (M:F): 3.3:1

2023-2024:
  Male: 611 (78.1%)
  Female: 171 (21.9%)
  Total: 782
  Gender Ratio (M:F): 3.6:1

2024-2025:
  Male: 959 (78.0%)
  Female: 271 (22.0%)
  Total: 1230
  Gender Ratio (M:F): 3.5:1

================================================================================
Program-wise Gender Distribution (2024-2025):
================================================================================
BSC IT (Regular): 776M / 221F (22.2% female)
Diploma IT: 94M / 38F (28.8% female)
BSC IT (Weekend): 44M / 7F (13.7% female)
MSC IT: 12M / 1F (7.7% female)
MPHIL IT: 33M / 4F (10.8% female)

Detailed Summary:
================================================================================
         Program      Year  Male  Female  Total  Female %
BSC IT (Regular) 2021-2022   260      71    331 21.450151
BSC IT (Regular) 2022-2023   435     134    569 23.550088
BSC IT (Regular) 2023-2024   514     146    660 22.121212
BSC IT (Regular) 2024-2025   776     221    997 22.166499
      Diploma IT 2022-2023    63      16     79 20.253165
      Diploma IT 2023-2024    72      19     91 20.879121
      Diploma IT 2024-2025    94      38    132 28.787879
BSC IT (Weekend) 2021-2022    27       5     32 15.625000
BSC IT (Weekend) 2022-2023    18       5     23 21.739130
BSC IT (Weekend) 2023-2024    25       6     31 19.354839
BSC IT (Weekend) 2024-2025    44       7     51 13.725490
         MSC IT 2024-2025    12       1     13  7.692308
       MPHIL IT 2024-2025    33       4     37 10.810811
```

2024/2025 Academic Year:
Departmental Achievements and Activities
UENR TECH FAIR – August 2025

The Department recently hosted the University of Energy and Natural Resources (UENR) 4th annual Tech Fair, a groundbreaking event that's shaping Ghana's digital future. This impressive gathering brought together influential figures, including the University Council Chairman and some Council Members, Hon. John Aseidu Nketiah and some invited Schools from the Tertiary, Senior Cycle, and Junior Cycle Schools within the Bono, Bono East, Ahafo, and Ashanti was present.

INFORMATION TECHNOLOGY SOCIETY DONATION – February 2025

In a gesture of goodwill and support for academic advancement, the ITS made a substantial donation to the Department. This generous contribution comprises P. A system, soft loan to students of the Department who could not pay their school fees and some other learning materials.

Journal Publications (for the year under review)

i. Afrifa, S., Varadarajan, V., Appiahene, P., Zhang, T., Gyamfi, D., & Gyening, R. M. O. M. (2025). Deep Neural Networks for Skin Cancer Classification: Analysis of Melanoma Cancer Data. Journal of Advances in Information Technology, 16(1), 1–11. https://doi.org/10.12720/jait.16.1.1-11
ii. Afrifa, S., Zhang, T., Appiahene, P., Zhao, X., Varadarajan, V., Atta-Darkwa, T., Geng, Y., & Yaw, M. S. (2025). Assessing the impact of climate change on groundwater level changes using ensemble models. Sustainable Water Resources Management, 11(3), 68. https://doi.org/10.1007/s40899-025-01245-0
iii. Afrifa, S., Zhang, T., Appiahene, P., Zhao, X., Varadarajan, V., Atta-Darkwah, T., Geng, Y., Gyamfi, D., & Owusuaa Mensah Gyening, R.-M. (2025). Impact of Climate Change on Groundwater Level Changes: An Evaluation Based on Deep Neural Networks. Applied Computational Intelligence and Soft Computing, 2025(1), 7641994. https://doi.org/https://doi.org/10.1155/acis/7641994
iv. Asiedu, D., Mensah, P. K., Appiahene, P., & Nimbe, P. (2025). A Constraint Satisfaction Approach for Estimating the RSA Prime Factors towards Known Bits Factorization Attacks. Journal of Cybersecurity and Information Management, 16(1), 38–52. https://doi.org/10.54216/JCIM.160104
v. Daniel, A., Kwabena, M. P., Peter, A., & Kofi, N. I. (2025). Intelligent Threat Hunting: A Systematic Literature Review and Meta-Analysis of the RSA Cryptosystem. Mesopotamian Journal of CyberSecurity, 5(2), 538–562. https://doi.org/10.58496/MJCS/2025/033
vi. Gyening, R.-M. O. M., Akoto, M. A., Owusu-Agyemang, K., Amoako-Banning, L., Takyi, K., & Appiahene, P. (2025). MeatScan: An image dataset for machine learning-based classification of fresh and spoiled cow meat. Data in Brief, 62, 112045. https://doi.org/https://doi.org/10.1016/j.dib.2025.112045
vii. Karim-Abdallah, B., Ayitey Junior, M., Appiahene, P., Harris, E., & Binful, D. K. (2025). Application of Machine Learning Algorithms in Predicting Academic Performance of Students in Higher Education Institutes (Heis): a Systematic

Review and Bibliographic Analysis. African Journal of Applied Research, 11(1), 536–559. https://doi.org/10.26437/ajar.v11i1.869

Workshops

- 10th Oct 2024, Sunyani, Innovative, Affordable, and Sustainable Energy Supply in Ghana for the 4th Industrial Revolution

Conferences

- Tech Ghana Accra Edition,2025
- UENR Tech Fair 3rd Edition, 26 July 2025
- Processing Using Machine Learning and Blockchain Technology, 33rd Ghana Science Association Biennial Conference – University of Ghana (Accra)

Future Plans of the Department

1. Academic Expansion: Introduce a novel undergraduate program, BSc Creative Computing, enhancing our academic offerings.
2. Institutional Growth: Establish a new school, fostering interdisciplinary collaboration and innovation

The department aims to elevate the 5th edition of the UENR Tech Fair to an unprecedented

scale:

1. International Collaboration: Partnering with global tech leaders and institutions.
1. Unparalleled Success: Aspiring to host the world's largest and most impactful Tech Fair."

1.7 Grants and Awards

- Grant from ARNTD SGP VI worth $30,000
- A grant from the International Federation for Science, 2022-2024 [$15,000]
- A grant from African Research Network for Neglected Tropical Diseases (USAID), 2020-2022 [$30,000]
- 2 Grant awards from the American Society for Tropical Medicine and Hygiene (ASTMH) [$10,000]

#	Funder	Grant	Year	Funding
1	PATH	HUS RTSS	2021	$ 1,000,000.00
2	Seeding Labs	Instrumental Access	2021	$ 400,000.00
5	AACC	Membership	2021	$ 1,500.00
7	NIHR	RSTMH	2022	£ 5,000.00
13	USAID/ARNTD	Cervival Study	2023	$ 30,000.00
14	ASTMH	Travel Grants	2023	$ 11,000.00

15	National Heart Lung and Blood Institute, NIH (Bethesda, USA)	ADHinCRA Programme R01HL175642	2024	$ 200,000.00
16	USAID	RSTMH Seed Grant	2024	£ 5,000.00
			Approx.	$ 2,100,711.00

Fellowships Awards

- AREF Grant Writing Fellowship 2024:
- AREF Towards Leadership Fellowship:
- IPVC 2023 Travel Grant Scholarship: Two fully funded travel scholarships (Bill & Melinda Gates Foundation) to present research at the 35th International Papillomavirus Conference in Washington DC, USA
- IPVC 2024 Travel Grant Scholarship: Two fully funded travel scholarship (Bill & Melinda Gates Foundation) to present research at the 36th International Papillomavirus Conference in Edinburgh, UK
- IPVC 2025 Travel Grant Scholarship: One fully funded travel scholarship (Bill & Melinda Gates Foundation) to present research at the 36th International Papillomavirus Conference in Athens, Greece
- ADAPT Project, KCCR Master's Studentship, Sept 2024: Fully funded one-year studentship for MPhil research.
- International HPV Society Social Media Committee Member: Sole African representative selected to promote awareness and advocacy on HPV-related diseases via social media platforms.
- International Papillomavirus Society mentorship program 2023/2024 and 2024/2025.
- 2025 UENR Grantwriting Fellowship

1.8 Journal Publications (for the year under review)

- Hinneh T, Mensah B, Ogungbe O, Bayuo J, Donkoh ET, Commodore-Mensah Y. Prevalence of suboptimal blood pressure, glycemic control, and associated factors among patients with diabetes and hypertension in primary health care facilities in Ghana: a multicenter retrospective cross-sectional study. BMC Prim Care. 2025 May 29;26(1):189. doi: 10.1186/s12875-025-02775-4. PubMed PMID: 40442597; PubMed Central PMCID: PMC12121164
- Effah K, Tekpor E, Wormenor CM, Amuah JE, Kwawukume V, Matey LA, Kemawor S, Danyo S, Morkli EA, Essel NO, Donkoh ET. Cross-sectional evaluation of a peer educator-led empowerment initiative for improving participation in cervical precancer screening among female sex workers in Ghana.
- Boadu, W.I., Anto, E.O., Frimpong, J., Ntiful, F., Korsah, E.E., Ansah, E., Tamakloe, V.C., Agyapomaa, A., Opoku, S., Senu, E. and Nyantakyi, M., Donkoh ET. 2023. Prevalence, knowledge, and lifestyle-associated risk factors of dyslipidemia among Ghanaian type-2 diabetes mellitus patients in rural and urban areas: A multicenter

cross-sectional study. Health Science Reports, 6(8), p.e1475.

- Gyasi SF, Donkoh ET, Frempong S, Asamoah A, Raji AS, Baidoo RC, Williams I, Essel D, Asakiya HA. Cross-sectional evaluation of anti-SARS-CoV-2 antibody response to AZD1222 recombinant vaccine deployment in the Bono region, Ghana. Scientific African. 2024 Dec 1;26:e02489.
- Gyasi SF, Donkoh ET, Asamoah A, Raji AS, Adu RO, Essumang D, Ablordey A. Isolation and assessment of Pseudomonas aeruginosa and Bacillus cereus as PCB-degrading bacteria in environmental bioremediation. Scientific African. 2024 Mar 1;23:e02083.
- Boadu WI, Anto EO, Frimpong J, Ntiful F, Korsah EE, Ansah E, Tamakloe VC, Agyapomaa A, Opoku S, Senu E, Nyantakyi M, Donkoh ET. Prevalence, knowledge, and lifestyle-associated risk factors of dyslipidemia among Ghanaian type-2 diabetes mellitus patients in rural and urban areas: A multicenter cross-sectional study. Health Science Reports. 2023 Aug;6(8):e1475.
- Appiahene P, Chaturvedi K, Asare JW, Donkoh ET, Prasad M. Cp-anemic: a conjunctival pallor dataset and benchmark for anemia detection in children. Medicine in Novel Technology and Devices. 2023 Jun 2:100244.
- McCarthy RN, Donkoh ET, Arthur DD, Dassah ET, Boadu KO, Otoo JE, Boadu IW, Gyasi SF. Public relations strategies employed by the Ghana Health Service to address COVID-19 vaccine hesitancy: a qualitative inquiry. Tropical Medicine and Health. 2023 Dec;51(1):1-4.
- Asare JW, Appiahene P, Donkoh ET, Dimauro G. Iron deficiency anemia detection using machine learning models: A comparative study of fingernails, palm and conjunctiva of the eye images. Engineering Reports. 2023 Nov;5(11):e12667.
- Appiahene P, Arthur EJ, Korankye S, Afrifa S, Asare JW, Donkoh ET. Detection of anemia using conjunctiva images: A smartphone application approach. Medicine in novel technology and devices. 2023 Jun 1;18:100237.

International Conference Presentations

i. IPVC 2023, Washington, USA

- The epidemiology of high-risk human papillomaviruses and epithelial cell abnormalities in Kumasi, Ghana suggests that a possible use case exists for multivalent vaccines (Poster Presentation)
- Implementation of a self-sampling strategy to improve access to cervical screening services for female sex workers in Ghana (Poster Presentation)
- Availability and accessibility of cervical screening in the bono region of Ghana: a qualitative enquiry (Poster Presentation)

ii. IPVC 2024, Edinburgh, UK

- Establishing an Integrated Screening Program for Cervical Cancer and Female Genital Schistosomiasis in Ghana: Experiences from the CERVIVAL Study (Poster Presentation)
- Feasibility of a low-cost self-sampling strategy for improving access to high-risk HPV screening services for underserved populations in Ghana

iii. IPVC 2025, Bangkok, Thailand

- Comparison of rapid PCR kits for the detection of human papillomavirus infection in low-resource settings using real-world clinical samples (Poster Presentation)

- Advancing reliable HPVDNA screening services to support national cervical cancer prevention efforts in Ghana (Oral Presentation).

iv. STHISD Conference, UENR, August 2024 (Oral Presentation)

- Physicochemical Analysis and Isolation of Multidrug-Resistant Enteric Bacteria in Drinking Water from Agona Swedru, Ghana.

1.9 Visits to the Centre

In the year under review, the Centre hosted a number of high-profile visitors these include:

1. Prof. Yvonne Commodore-Mensah; Associate Professor of Public Health with expertise in health disparities, hypertension research and immigrant health at the Johns Hopkins Center for Health Equity
2. Dr. Derrick Afful; United States Food and Drugs Administration
3. Dr. Derrick Osakunnor; Researcher at the University of Edinburgh, UK and the Global Schistosomiasis Alliance
4. Officials of the African Research Network for Neglected Tropical Diseases (ARNTD)
5. David Hutchful (Yemaachi Biotech)
6. Derrydean Dadzie (CEO Heritors Labs)
7. Leon Boston (BMT Femme, Israel)
8. Officials of the Environmental Protection Agency
9. Officials from the Food and Drugs Authority

1.10 Significant National and International Collaborations

i. Johns Hopkins University: The Centre successfully submitted an NIH RO1 grant with JHU and will be executing the ADHiNCRA Programme from 2024 to 2029

ii. International Papillomavirus Society (IPVS): The Centre has partnered the IPVS since 2023 to drive its internationalization agenda. Through the partnership, the Centre has become a leader the global charge towards the elimination of cervical cancer

iii. IPVS Ghana Chapter: The Head of the Centre with support from Centre staff leads the Ghana Chapter of the IPVS. The partnership places the Centre at the heart of Ghana's charge towards the elimination of cervical cancer

iv. Cervical Cancer Prevention and Training Centre (CCPTC): The Centre successfully collaborated with the CCPTC to mark the Global cervical cancer action month in January 2025 with a national HPV screening campaign

v. National Vaccine Institute (NVI): The Centre successfully collaborated with the national Vaccine Institute to organize a symposium of HPV vaccination.

vi. Omni Diagnostics: The Centre successfully collaborated with Omni Diagnostics to mark the Global HPV Awareness month in March 2025 with a national HPV screening campaign

vii. International HPV Research Centre (IHRC), Karolinska Institutet, Sweden: The Centre is collaborating to provide quality assurance for molecular diagnostics development for Africa. This significant milestone affirms CeRAB's commitment to international standards of laboratory quality and reinforces our position as a leader in molecular diagnostics research and development in Ghana.

viii. Diagnotech Biotechnonogy, Turkey: The Centre partnered with a leading European Biotech Company to develop molecular diagnostics for the continent.
ix. BMT Femme, Israel: The Centre partnered with a BMT Femme, an international marketing company in Israel to develop molecular diagnostics for the continent.

Capacity Building and Staff Development

1. MPhil Microbiology: The Centre supported 3 Senior Research Assistants to pursue psotgraduate degree programmes in microbiology at the Department of Biological Science, Kwame Nkrumah University of Science and Technology, Ghana:
2. PhD Microbiology, Texas A&M University, USA
3. MSc. Biology and Biotechnology, University of Camerino, Italy:

Internship placement:

4. Hosted 12 graduates at CeRAB to train them on the use of microbiological and molecular techniques
5. Trained 246 undergraduate medical laboratory students in molecular techniques, including nucleic acid extraction and both conventional and real-time PCR for diagnostic purposes.
6. Provided training for 2 master's students and 2 undergraduate students from KNUST at CeRAB on microbiological and molecular analysis techniques, such as bacterial culturing, antimicrobial susceptibility testing, DNA/RNA extraction, and PCR, to support the mission of CeRAB in training the next generation of scientists

Funded Workshops:

7. G-WAC KNUST Scholarship (DAAD), July 2024: Selected among top 25 early-career scientists in Africa and Germany for the "One Health Modular Course: Modelling for Pandemic Preparedness."
8. WACCBIP Scholarship, May 2024: Selected among top 20 African early-career scientists for the “Combatting Antimicrobial Resistance” workshop, funded by the Foreign, Commonwealth and Development Office & Wellcome Trust.
9. Fully funded scholarship award to 12 laboratory scientists, researchers, and postgraduate students across Ghana to participate in hands-on bacteriology training to at the Kumasi Centre for Collaborative Research (KCCR) from November 11 to November 15, 2024.
10. Fully funded scholarship awarded to 50 master's students at KNUST to participate in a systematic review and meta-analysis workshop at KNUST, scheduled from July 28 to August 2, 2024

National Impact

1. Established cervical screening centers at CeRAB and Tain District, through the ARNTD projects
2. Achieved global certification for HPV testing at CeRAB by participating in the Global HPV DNA Screening Proficiency Study 2024, an external quality assessment organized by the International HPV Reference Centre in Sweden and EQUALIS.
3. Optimized and validated a molecular diagnostic assay, which now serves a commercial purpose for screening high-risk HPV

4. Collaborated with Omni Diagnostics to implement a national HPV screening campaign, which eventually screened 1200 women in the country for high-risk HPV, including 100 UENR staff
5. Collaborated with the Rotary club and CCPTC to implement a national HPV screening campaign, which eventually screened 1700 women in the country for high-risk HPV.

1.10 Future Plans of the Centre

i. The Centre has commenced processes to secure ISO 15 189 accreditation to provide repository services and meet international standards for threat preparedness responses. Further details and roadmap have been elaborated in a 5-year strategic plan.
ii. The Centre has partnered with the International HPV Research Centre to Ministry of Environment, Science and Technology and the Ministry of Health to develop degree programmes within its mandate. This will involve the upgrade to develop the Centre into a Centre of Excellence in Africa
iii. The Centre has partnered the International HPV Research Centre to become a national reference laboratory for HPV screening and vaccine research
iv. The Centre is developing a partnership with the German Development Bank to spearhead its research commercialisation agenda and train graduates of the University to establish sustainable jobs and advance health security in Africa.

SCHOOL OF NATURAL RESOURCES

SCHOOL OF NATURAL RESOURCES

INTRODUCTION

The School of Natural Resources is one of the foundation schools of the University of Energy and Natural Resources. With an initial population of 80 students, the School currently has a student population of about 2,218 (excluding graduate students). The mandate of the School is to train the next generation of natural resources managers to acquire skills, knowledge, intellectual independence and conduct research to critically think and provide solutions to the challenges in the field of natural resources management. Ultimately, the school provides high quality education which emphasis on multidisciplinary and integrated approach to natural resources management. It is dedicated to producing highly skilled graduates whiles generating, advancing and applying science-based information for the sustainable management and utilization of our natural and environmental resources.

Our students have the unique opportunity to work with industry for a semester during the period of their education. It provides them the opportunity to understand the challenges and opportunities in the field of natural resources management. This enables them to carry out research that is tailored at addressing the needs of the industry. The programme enhances the collaboration between industry and academia.

As one of the foundation schools, to become a world class School for generating, advancing and applying knowledge in Natural Resources and its related social services. In order to realize its vision and mission the School of Natural Resources we are guided by the following core values:

i. Promote innovation, creativity, freedom of thought and creative expression
ii. Operate with fairness, integrity, commitment and transparency
iii. Respect for conservation of our natural resources
iv. Student empowerment and success
v. Gender equity
vi. Partnership with stakeholders in skills and knowledge generation and application

2.0 THE SCHOOL RESEARCH FOCUS IS IN THE FOLLOWING AREAS:

- Livelihoods of Forest fringed communities
- Aqua-culture systems
- Fisheries management
- Environmental degradation
- Preservation and development of heritage site
- Forest conservation
- Forest fires
- Safety and Disaster Management
- Mining activities.
- Wildlife endangered species
- Ecotourism and hospitality
- Blue economy

- Climate change

3.0 WORKSHOPS ORGANIZED

In fulfilling our desire to build the capacity of staff in the School of Natural Resources, the following workshops were organized:

1) IUFRO Management Committee Meeting and Stakeholder Interactions, 18-19th September 2023.
2) General School interaction on 22nd August 2023.
3) Achieving sustainable Green economy delivered by Prof. Daniel A. Ofori on 24th August, 2022 at the university auditorium.
4) Interactive programme with lecturers and staff of Lakehead University held on 5th September, 2022 at the university auditorium.
5) Stakeholder dialogue on enhancing sustainable production and consumption from the forest held on 21st March, 2022 at the university auditorium

4.0 COLLABORATIONS

The School is currently collaborating with the following institutions:

- Forestry Research Institute of Ghana
- Lakehead University
- Fisheries Commission
- Forestry Commission
- Ghana Tourism Authority
- Ghana National Fire Service
- Eberswalde University for Sustainable Development- Germany
- Form Ghana
- Ministry of Lands and Forestry
- University of Houston Downtown-USA

These are aimed at building the capacity of staff and students to broaden our knowledge base and enhance our ability to contribute towards national development.

5.0 DEPARTMENTS/RESEARCH CENTRE.

The school is made up of the following Departments and Centre:

- Department of Forest Science
- Department of Fisheries and Water Resources
- Department of Environmental Management
- Department of Ecotourism, Recreation and Hospitality
- Department of Fire, Safety and Disaster Management
- Centre for Climatic Change and Gender Studies

6.0 STUDENT STATISTICS/POPULATION IN SCHOOL OF NATURAL RESOURCES

Currently, the number of students offering Bachelor programmes stands at about 1,860. The enrolment figure is given in the (Table 1).

Year/Level	Male	Female	Total

100	198	489	687
200	142	305	447
300	145	296	441
400	120	165	285
Total	**605**	**1255**	**1,860**

The population of students offering Diploma programmes in the School of Natural Resources are about 358 (Table 2).

Table 2: Enrolment figures of students offering Diploma programmes

YEAR/LEVEL	MALE	FEMALE	TOTAL
100	85	135	220
200	63	75	138
TOTAL	148	210	358

7.0 ADMINISTRATION OF THE SCHOOL

The following are the staff at the School's Office.

- Prof. Daniel Akoto Sarfo — Dean
- Ms. Dorothy Agyenim Boateng — School Registrar
- Ms. Joyce Okrah — Senior Administrative Assistant

8.0 DEPARTMENT OF ECOTOURISM, RECREATION AND HOSPITALITY

8.1 Introduction

The Department of Ecotourism, Recreation and Hospitality is one of the five Departments in the School of Natural Resources. The Department offers and prepares students for a four-year degree, leading to the award of BSc. Natural Resources Management (Ecotourism option) and BSc. Hospitality Management (Regular & Weekend).

Our graduates are equipped with knowledge, competencies, and skills to manage diverse areas such as the protected areas, ecotourism, and mainstream tourism and hospitality sector. Over the years, strategic partnership with the sectors created opportunities for students to engage in internships and industry-related training, which constitute the core of the practical training that enhances students' job prospects and career development.

8.2 Administration of the Department

- Dr. Sampson Wireko-Gyebi: Head of Department
- Ms. Akosua Frimpong-Mensah: Junior Assistant Registrar

8.3 Activities over the Past Years

- Hospitality and Tourism Today Radio Programme: The department commenced a

radio programme in February 2024 "Hospitality and Tourism Today" which airs on Tuesdays at 7:00pm on Greena FM, 95.9 MHz. Members of the department together with resource persons from industry are always present during the programme to discuss pertinent issues in the hospitality and tourism industry.

- Food Bazaar: Food Bazaar, an annual culinary event was organized on 24th July, 2025 on campus. The theme for the event was "Promoting Tourism in Ghana: The Role ofTourism Students". The event saw students from the department showcasing diverse indigenous dishes representing the cultural diversity in the country.

- Product Development: Some Level 400 Hospitality students developed products from various food commodities. The essence was to add value and prolong the shelf-life of food commodities that go to waste or bad when in season. The idea is to inculcate entrepreneurial skills and attitudes in students who would employ themselves and others. The Department is putting in plans to collaborate with the Department of Food Science to assess and determine the efficacy of these products, the Department of Agribusiness and Consumer Studies and the Department of Entrepreneurship and Business Science for collaboration in this regard.

- Practical Training: Practical activities in the areas of Beverage Production, Food and Beverage Management, and Culinary Management was also undertaken by the students. Also, as part of the Department's effort to bridge the gap between industry and academia, Level 100, 200 and 300 hospitality students were also taken through practical training in pastry & bread making and continental dishes at the department's Training Centre.

- Event Management: The Events Management Student of the Department also hosted a talent show dubbed "UENR Got Talent 2.0" on Friday, 15th September, 2025. The essence of the event was to give opportunity to the students to develop the skills of planning and hosting events as well as to give students the opportunity to showcase their unique and diverse talents.

8.4 Staff and Student Development

Student Exchange

- During the academic year, a student reading BSc. Natural Resources Management (Ecotourism Option) received an award to participate in student exchange programme in Spain. Plans are far advanced for two additional students to participate in exchange programmes in Germany and Italy. A hospitality student was selected and participated in a student exchange programme from April to July, 2025 at the Universitat Autonoma de Barcelona, Spain.
- Miss Mildred Nuong Deri has completed her PhD studies at the University of Malaysia and has since returned to the university. Miss Anna Arthur-Amissah and Ms. Cynthia Amanor have have gained admission to pursue PhD programmes. Ms. Zaazie is awaiting her graduation for her PhD programme in the first quarter of next year.

8.5 Academic Development

- The GTEC has given policy approval for the MPhil and MSc Hospitality and Tourism Management programmes submitted by the department. The department has printed and submitted the corrected versions of the programmes to the Quality Assurance and Academic Planning Directorate of UENR for onward submission to GTEC for final approval.

- A hospitality training facility to support practical training is completed. The facility was officially commissioned by the Vice Chancellor on Friday, 7th February 2025. The facility has since served as the main practical venue for students' practicals in the department.

- The short-term plan is to introduce BSc. Tourism Resources Management and a PhD programme in Hospitality Management.

8.6 Academic Programmes

BSc. Natural Resources Management (Ecotourism option)
BSc. Hospitality Management (Regular & Weekend)

Level	Mode	Male	Female	Total
HOSPIPTALITY	**Regular**			
100		7	204	211
200		7	149	156
300		8	135	143
400		5	87	92
Sub-Total		27	575	602
	Weekend			
100		0	15	15
200		0	8	8
300		1	17	18
400		1	10	11
Sub-Total		2	50	52
ECOTOURISM	**REGULAR**			
300		5	10	15
400		3	3	6
Sub-Total		8	13	21
Grand Total		**37**	**638**	**675**

NT PUBLICATIONS OF STAFF IN THE DEPARTMENT
PROF. SIMON ABUGRE
RESEARCH INTEREST

- Allelopathic potential of tree species
- Land use management
- Collaborative forest management
- Soil and water conservation

8.8 Teaching Staff

There are five Senior Lecturers (two on post-retirement contract). Also, there are three Lecturers, three Assistant Lecturers, four technical staff (technicians) and one Administrative Assistant in the Department. Their names, qualifications, designations, and specializations are given in the Table below:

Name	Academic Qualification	Designation	Area of specialization
Teaching Staff			
Dr. Sampson Wireko-Gyebi	PhD (UCC)	Senior Lecturer/HoD	Events Management
	MPhil (UCC)		Hospitality Education
	BSc (UCC)		Customer Experience
Dr. Yaw Boakye Agyeman	PhD (Waterloo Univ.)	Senior Lecturer	Nature conservation, Ecotourism, Social dimension of climate change, hospitality education
	MSc (Wageningen)		
	BSc (KNUST)		
Dr. Ricky Yao Nutsugbodo	PhD (UCC)	Senior Lecturer	Tourism Transport studies, Accommodation, Ecotourism development, Entrepreneurship in hospitality
	MPhil (UCC)		
	BSc (UCC)		

Dr. Mildred N. Deri	PhD (Malaysia)	Lecturer	Environmental issues in tourism and hospitality
	MPhil (UCC)		
	B. Tech (HTU)		
	HND (ATU)		
Miss Perpetual Zaazie	MPhil. (UEW)	Lecturer	Ethnic cuisine,
	M.Tech. (UEW),		Catering,
	B.Ed. (UEW)		hospitality events
Dr. Mrs. Abena Owusu Adjapong	PhD (KNUST)	Lecturer	Wildlife ecology and
	MSc (Univ. of Greenwich)		Habitat management, Mammalogy
	BSc (KNUST)		
Miss Joana Mills Quarshie	MPhil (UCC)	Assistant Lecturer	Hospitality Marketing
	B. Ed. (Univ. of Goroka)		
Miss Anna Arthur-Amissah	MPhil (UCC)	Assistant Lecturer	Front Office
	BSc (UCC)		Customer Relations
Miss Cynthia Amanor	MPhil (KNUST), MSc (KNUST)	Assistant Lecturer	Ethnic cuisine, hospitality events
	B. Ed. (UCC)		
	HND(KsTU)		
Technical Staff			
Mr. Constans Kwame Noagbey	M.Tech. (UEW)	Chief Technician	Catering, Hotel Management
	B. Tech. (UCC)		
	HND (HTU)		
Mr. Francis B. Asamoah	MPhil. (KNUST, On-going)	Senior Technician	Habitat Ecology &
	BSc (KNUST)		Species Conservation

Miss Abena Gyamfuaa	MSc. (KNUST, On-going)	Senior Technician	Ethnic cuisine, Catering, Nutrition
	B. Tech. (STU)		
	HND (STU)		
Mr. Daniel Koomson Najah	BSc (UENR)	Senior Technician	Hospitality/ Restaurant Management

In addition, two members of staff completed their post-retirement contract with the university. These were Mr. Richard Obour and Mr. James Agyei Ohemeng. The department is in talks with the Human Resources Division to get replacement.

8.9 Research Collaborations (Local and International)

- Memorandum of Understanding (MoU) between Centre for Biodiversity Conservation Research (CBCR) and University of Energy and Natural Resources (UENR)[Department of Ecotourism, Recreation and Hospitality]. This partnership aims to enhance the capacity for monitoring wildlife and species in protected areas and to provide practical training opportunities for students that align with the project's objectives and goals.

- Student and staff exchange with the School of Tourism and Hotel Management, Universitat Autònoma de Barcelona, Spain and the Department of Behavioural Ecology, Adam Mickiewicz University Poznan, Poland under the ERASMUS+ KA107 programme.

- Mr. Francis Asamoah was invited to join a team of scientists from Laboratory for Integrative Biodiversity Research in the University of Helsinki, Finland, and the University of Development Studies (UDS), Ghana. The team of scientists is conducting a study to investigate the ecology and functional diversity of arthropods in both protected areas and agrosystems in Northern Ghana.

9.0 Workshops/Conferences/Public Lecture

The department sponsored four (4) senior members to attend the 2nd edition of the International Conference on Science, Technology and Health Innovation for Sustainable Development (STHISD 2025) hosted by the School of Science at the RCEES Auditorium from Wednesday, 20th to Friday, 22nd August, 2025.

Dr. Sampson Wireko-Gyebi

January, 2025: Lead Facilitator, Training of enterprises on ILO/GIZ SCORE short at A. J. Plaza Hotel, Techiman

Dr. Mrs Abena Owusu Adjapong

May 2025: Participant, Workshop on "Strengthening Camera Trapping for Protected Area

Monitoring in Ghana" at the CBCR Conference Room, University of Ghana.

9.1 Funding of Research Activities

Dr. Yaw Boakye Agyeman

- Coordinator, Biosphere Learning Laboratory Lake Bosomtwe (BL3B) Project

9.2 Selected Publication(S) During The 2024/2025 Academic Year

Dr. Sampson Wireko-Gyebi

Nutsugbodo R. Y., Sedegah, D. D., Duodu, A. D., Ankor, P., Bempong, V. E. K., Wireko-Gyebi, S., Arthur-Amissah, A., Quarshie, J. M., Afful, B. E. B. (2025). Entrepreneurial Intentions of Tourism and Hospitality Graduates: An Application of the Entrepreneurial Event Model. African Journal of Hospitality and Tourism Management, 5(1), 1-22

Sedegah, D. D., Nutsugbodo, R. Y., Arthur-Amissah, A., Wireko-Gyebi, S., Duodu, G. A., Bempong, V. E. K., ... & Tuffour, M. (2024). Entrepreneurial intentions of tourism and hospitality students in Ghana: an application of the theory of planned behaviour. Journal of Small Business and Enterprise Development.

Mensah, C., Azila-Gbettor, E. M., & Wireko-Gyebi, S. (2024). Mapping hospitality and tourism internship research: A bibliometric and integrative review. Journal of Hospitality & Tourism Education, 36(2), 132-164.

Wireko-Gyebi, S., Baah, N. G., Nutsugbodo, R. Y., Zaazie, P., Senya, E. K., Bosomefi, V., & Amankona, S. (2024). Service quality, satisfaction and loyalty among sharing economy vehicle users. Cogent Social Sciences, 10(1), 2327130.

Nutsugbodo, R. Y., Anaafo, D., Wireko-Gyebi, R. S., Wireko-Gyebi, S., Agyeman, Y. B., Afful, B. E. B., ... & Adams, J. (2024). Wastes in the wild: types, effects, and management of plastic waste at Mole National Park, Ghana. Cogent Social Sciences, 10(1), 2316046.

Dr. Yaw Boakye Agyeman

Nutsugbodo, R. Y., Anaafo, D., Wireko-Gyebi, R. S., Wireko-Gyebi, S., Agyeman, Y. B., Afful, B. E. B., Arthur-Amissah, A., & Adams J. (2024) Wastes in the wild: types, effects, and management of plastic waste at Mole National Park, Ghana, Cogent Social Sciences, 10:1, 2316046, https://doi.org/10.1080/23311886.2024.231604

Dr. Ricky Yao Nutsugbodo

Amissah, E. F., Nutsugbodo, R. Y., Baah, G. N., Mensah C., & Afful. B. E. B. (2025). Academic resilience, COVID-19 risk perception, and psychological well-being on the career intention of tourism and hospitality students. Journal of Hospitality and Tourism Education. https://doi.org/10.1080/10963758.2025.2490522

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Anaafo, D., Nutsugbodo, R. Y., Anane, G. K., Agyepong, E., & Koomson, D. N. (2025).

Temporary structures, permanent challenges: 'Containerisation' and urban governance in the Sunyani Municipality. Urban Forum, https://doi.org/10.1007/s12132-025-09541-w

Anaafo, D., Nutsugbodo, R. Y., Agyepong, E., Anane, G. K., Mensah, A. B., & Bata, P. D. (2024). Place making decisions among informal street food vendors in Sunyani, Ghana. Cities, 154, Article No. 105328 https://doi.org/10.1016/j.cities.2024.105328

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Dr. Mildred Nuong Deri

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Singh, A., & Deri, M. N. (2024). Exploring the use of virtual and hybrid events for MICE sector: Trends and opportunities. In New Technologies in Virtual and Hybrid Events (pp. 47-70). IGI Global

Mr. James Agyei-Ohemeng

Agyen K., Agyei-Ohemeng, J., Asamoah, F. B., & Obour, R., Adu, Y. B. (2023). Distribution of birds in communities around kakum national park (knp), ghana, using foraging behaviors. Journal of Agriculture & Forest Research, Vol.2 Issue 3. Pp.9-23. www.sarpo.net (2023).

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Mr. Richard Obour

Agyei-Ohemeng, J.; Obour, R.,; Agyepong, A. O.; Asamoah, F. B., & Agyen, K. (2023). Birds of University of Energy and Natural Resources, A Photo Guide. MIMEOGRAPH, Twumasi Ankrah David (Eds).

Ms. Perpetual Zaazie

Deri, M. N., Singh, A., Zaazie, P., & Anandene, D. (2024). Demystifying sustainable practices in the hotel industry: Evidence from Ghana. In Waste Management and Life Cycle Assessment for Sustainable Business Practice (pp. 20-42). IGI Global.

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Kortei, N.K., Ahlidobu, O., Asante-Donyinah, D., Boadi, M., Zaazie, P., Popee, N.O., Annan, S.N.Y & Osei-Ttutu, C. (2024). Consumer food safety knowledge in the homes of residents of Ho municipality in Ghana. Ghana Journal of Science, 65(1): 17-33

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Ms. Anna Arthur-Amissah

Nutsugbodo R. Y., Sedegah, D. D., Duodu, A. D., Ankor, P., Bempong, V. E. K., Wireko-Gyebi, S., Arthur-Amissah, A., Quarshie, J. M., Afful, B. E. B. (2025). Entrepreneurial Intentions of Tourism and Hospitality Graduates: An Application of the Entrepreneurial Event Model. African Journal of Hospitality and Tourism Management, 5(1), 1-22

Dr. Mrs Abena Owusu Adjapong

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Kumi, S., Addo-Fordjour, P., Fei-Baffoe, B., Adjapong, A. O., & Asamoah, F. B. (2024). Dynamic Influence of Mining-Induced Land Use Land Cover Changes on Avifauna Community over a mining landscape, Ghana. Trees, Forests and People, 100515.

9.3 Community Engagement

Dr. Sampson Wireko-Gyebi

- Head, Department of Ecotourism, Recreation and Hospitality
- Member, Cafeteria Management Committee

Dr. Yaw Boakye Agyeman

- Head, 3CGs
- Member, University Academic Board
- Member, School of Natural Resources Board

- Member, University International Relations

Dr. Ricky Yao Nutsugbodo
- Departmental Representative, Academic Board
- Departmental Weekend Coordinator

Dr. Mildred Nuong Deri
- Departmental Representative, School Board

Ms. Perpetual Zaazie
- Coordinator, Special Event: Annual Food Bazaar and Annual Project Exhibition
- Departmental Representative, School of Natural Resources Quality Assurance Sub-Committee

Dr. Abena Owusu Adjapong
- Coordinator for Short programmes
- Departmental Representative, School of Natural Resources Research Committee
- Departmental Representative, School of Natural Resources Strategic Plan Implementation Committee

Ms. Anna Arthur-Amissah
- Departmental Examinations Officer
- Radio Host, Hospitality and Tourism Today

Ms. Joana Mills Quarshie
- Patron, Association of Hospitality Management Students

Ms. Cynthia Amanor
- Departmental Attachment Officer
- Coordinator, Industrial Relations
- Departmental Special Events Coordinator

Mr. Constans K. Noagbey
- Hospitality Training Centre Coordinator

Mr. Daniel Koomson Najah
- Alumni Coordinator

9.4 Future Plans of the Department
- Initiate discussions on getting a Memorandum of Understanding (MoU) with industry to train our students on cutting-edge industrial courses such as Aviation.
- Plan academia-industrial focused conference on tourism and hospitality.
- Plan to initiate hospitality industry-centered training as part of the academic program to develop and provide our students with experiential knowledge and

skills.

- Plan to initiate wildlife and hospitality short courses, industry-centered training as part of the academic program to develop and provide our students with experiential knowledge and skills.
- Develop a training centre and short courses (with Ghana Tourism Authority) to build capacity of the employees in tourism and hospitality sector.
- Strengthen the Department teaching and research capacity through staff exchange programmes.
- Developing small scale beekeeping and snail farming. This project seeks to support teaching and research in entomology (apicology) in our wildlife programme. Also, it will inculcate entrepreneurial interest in beekeeping as a business among our students. The project will generally contribute to the Vice-Chancellor's Strategic Thrust focused on income generation.
- Promote hospitality professionals-students' engagements through the Guest lecture series.

10.0 DEPARTMENT OF FIRE SAFETY AND DISASTER MANAGEMENT

10.1 Introduction

The Department of Fire Safety and Disaster Management was established in 2023 as an independent academic department under the School of Natural Resources at the University of Energy and Natural Resources (UENR), Sunyani. The department evolved from the former Department of Environmental Management, which had been running both Diploma and Bachelor of Science (BSc) programmes in Fire, Safety, and Disaster Management.

The foundation of the Fire, Safety, and Disaster Management programme dates back to 2015, when Prof. Amos T. Kaboba and a team of experts from both UENR and the Ghana National Fire Service (GNFS) collaboratively developed the curriculum. The programme was successfully hosted within the Department of Environmental Management from 2015 to 2023.

Over the years, there were several attempts to establish a separate department to provide focused training and research in fire safety, disaster risk reduction, and emergency management. These efforts, however, did not materialize until 2022, when Dr. Joseph Asako Azumyarn with a support from Mr Solomon A. Afour, submitted a comprehensive proposal for the creation of the Department of Fire Safety and Disaster Management. The proposal received strong support from the then Head of the Department of Environmental Management, Dr. Fred Owusu Ansah, the Dean of the School of Natural Resources, Prof. Simon Abugri, and the Vice-Chancellor, Prof. Elvis Asare-Bediako, whose visionary leadership and interest in national and global fire safety, disaster resilience, and risk reduction led to its approval.

Following the establishment of the department in 2023, Mr. Alex Armer Agbeshie, was appointed as the pioneer Head of Department, serving from 2023 to July 2025. Under his leadership, the department experienced remarkable growth, with student enrollment increasing from just under 200 to approximately 800 within a short period.

Today, the Department of Fire Safety and Disaster Management continue to play a pivotal

role in advancing knowledge, research, and professional training in fire safety, disaster risk reduction, and emergency management—contributing to building a safer and more resilient Ghana and beyond.

10.2 Departments and Research Centres/Institutes

Indicate the activities of the Department, Centre and/or the Institute

10.3 Academic Programmes

I. Department of Fire Safety and Disaster Management Headed by Dr. Joseph Asako Azumyarn Undergraduate Programmes:00

a. Bsc Fire Safety and Disaster Management
b. Diploma Fire Safety and Disaster Management

i. Postgraduate Programmes

10.4 Staff and Students Statistics

Staff	Male	Female	Total
Teaching	5	-	5
Non-teaching	-	1	1
Technician	1	-	1
Total	6	1	7

Students	Male	Female	total
Regular			
Level 100	102	164	266
Level 200	60	56	114
Level 3oo	18	35	53
Level 400	16	13	29
Totals	196	268	464
Weekend			
Level 100	22	25	47
Level 200	25	14	39
Level 3oo	24	16	38
Level 400	25	4	2o
Totals	96	59	155
Diploma			
Level 100	78	21	99

Level 200	31	35	66
total	109	56	165
Grand Totals	**401**	**383**	**783**

10.5 Research Collaborations (Local and International)

1. Ghana National Fire Service
2. National Disaster Management Organisation
3. Ulster university Uk

10.6 Workshops/Conferences/Public Lectures

1. Post Graduate Programmes (Mphil/Ma) In Fire Safety and Disaster Management

10.7 Publications (for the year under review)

Each teaching staff has produced at least 3 publications

1. Azumyarn, J. A., Afour, S. A., Agbeshie, A. A., Boateng, A. D., Carlis-Paittoo, B. O., Elizabeth, K. M., & Nasara, W. W. (2025). Assessment of the underlying causes and impact of fires at the Kumasi Kejetia Market. Journal of Safety Education, 3(1), 1–7. https://journal.unnes.ac.id/journals/jse1
2. Darimani, Abdulai and Azumyarn, Joseph Asako, Assessing Multidimensional Poverty in a Mining Induced-Displacement and Resettlement Community in Ahafo Gold Mine Project Area, Ghana. Available at SSRN: https://ssrn.com/abstract=5087357 or http://dx.doi.org/10.2139/ssrn.5087357
3. Azumyarn, J. A., Barnes, V. R., Twum-Ampofo, K., Abunyewa, K. A., & Baidoo, A. (2024). Spatial and temporal distribution of fires in riparian forest areas of the dry and humid savannah ecological zone of Ghana. Global Scientific Journal (GSJ), 12(10). ISSN 2320-9186. Retrieved from www.globalscientificjournal.com
4. Azumyarn, J. A., Afour, S. A., Carlis-Paittoo, B. O., Boateng, A. D., & Owusu, S. (2024). Basic school pupils' knowledge of fire safety in the Sunyani municipality of Ghana. Journal of Energy and Natural Resource Management (JENRM), 10(1), 59-66.

10.8 Community Engagements

Staff serve in

1. **School Board**
2. **Academic Board**
3. **Industrial Attachment Coordinators**
4. **Quality Assurance**

10.9 Visits

Staff visited Ulster University

11.0 Future Plans of the School to run

1. **Mphil Fire Safety and Disaster Management**
2. **MA Fire Safety and Disaster Management**

3. **PhD Fire Safety and Disaster Management**
4. **Short coursesProfessional programmes OSHA, NEBO**

12.0 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

12.1 Introduction

The Department of Environmental Management (DEM) is under the School of Natural Resources. The Fire, Safety, and Disaster Management Programme, which formed part of the Department of Environmental Management, was calved and promoted/developed into a new separate Department of Fire, Safety, and Disaster Management during the latter part of the 2022/2023 academic year.

Like any other academic department, DEM is mandated to build competencies and promote teaching, scholarship, research and outreach programmes aimed at solving problems critical to the nation's development. The department has research interests in:

- **Reclamation and Restoration of degraded landscapes**
- **Soil Quality Analysis**
- **Environmental Impact Assessment & Auditing**
- **Environmental Policy Analysis, Law & Governance**
- **Environmental Risk Analysis & Management**
- **Natural Resources (air, land, water & mineral resources) Management**
- **Climate Change and Sustainability Management**
- **Solid Waste Technology and Management**
- **Electrical and Electronic Waste Management**
- **GIS & Remote Sensing Technologies/Geospatial analysis**
- **Ecological Economics & Modeling.**

12.2 ACADEMIC PROGRAMMES

Currently, the Department runs BSc. Natural Resources Management (Land Reclamation and Restoration option; Regular and weekends) and Postgraduate Programmes (MSc/MPhil/PhD) in Environment and Water Sustainability (PEWS). A new programme, BSc Environment Resources Management and Sustainability has been developed to go through accreditation. This programme, when accredited, will be the first of its kind in any of the Universities in Ghana.

12.3 Administration of the Department

» Dr. Mary Antwi	Head
» Mr. Prince Owusu Ansah	Administrative assistant

I. Undergraduate Programmes:

a. BSc Natural Resources Management (Option: Land Reclamation and Restoration)

ii. Postgraduate Programmes

a. MSc/MPhil/PhD Environment, Water, and Sustainability

12.4 Research Collaborations (Local and International)

1. NTFP domestication and cocoa systems diversification at Lake Bosumtwe Biosphere reserve, Ghana (NTFP Bosumtwe), in partnership with Eberswalde University for Sustainable Development and Forest Research Institute, Ghana (FORIG).

12.5 Workshops/Conferences/Public Lectures

1. 34th Biennial Conference of the Ghana Science Association on the theme 'Leveraging innovative science to strengthen public-private partnerships for sustainable development in Ghana' at the University of Development Studies, Tamale, Ghana, from the 23rd to 25th September, 2025.

2. Women's Leadership and Management Course (WLMC) under the Gender Responsive Agriculture Systems Policy (GRASP) in Mombasa, Kenya, from July 27th to August 2nd, 2025.

3. 19th Biennial Workshop of the Ghana Science Association on the theme 'Innovative, Affordable and Sustainable Energy Supply in Ghana for the 4th Industrial Revolution' at the RCEES Auditorium, UENR on the 10th October, 2024.

4. Women-in-WACREN Workshop 2024, organised by West and Central African Research Educational Network on the theme, 'Python for Weather and Climate data analysis' at the VCG office, Accra from 27th to 30th August, 2024.

5. Seminar on indigenous seed development organised by ActionAid, Ghana on the 22nd May, 2024 at the Eusbett Hotel, Sunyani, Ghana.

6. OWSD Ghana Chapter Conference on the theme 'Women Scientists and their contribution to the attainment of the Sustainable Development Goals (SDGs)' on the 8th and 9th March, 2024 at the Amonoo Neizer (IDL) conference centre, KNUST, Kumasi, Ghana.

12.6 Grant and Awards

1. ACU Gender Project 2024 for supporting women in science and research through mentorship and networking.
2. AWARD Policy fellow Cohort 3 – Gender Responsive Agriculture Systems Policy (GRASP) Fellowship

12.7 Funding of Research Activities

1. Through proposals and collaboration with Harbingers of the 21st Century (NGO) and support from the Green Grants Fund.
2. Support from Environmental Protection Authority through institutional engagements.

12.8 Publications (for the year under review)

Staff of the School produced xyz refereed journal articles, xyz conference papers and xyz books etc.

The department produced about 52 refereed journal articles, 10 conference papers
Community Engagements

1. Outreach programmes on the theme, 'Sustaining our future: The Role of Youth in Waste Management and climate Resilience' within Dumesua community and Kyem Amponsah SHS on Climate change awareness and pollution control.
2. Radio talk shows on Environmental security and stewardship, plastic waste pollution and management, and climate change on Greena FM and Service Radio, Sunyani
3. Commemoration of World Environment Day on the theme, 'Repurpose Plastic Use' in collaboration with the Environmental Protection Authority

12.9 Visits

1. Dumesua Community for outreach programme
2. Kyem Amponsah Senior High School
3. Service Radio
4. Environmental Protection Authority
5. Sunyani Municipal Assembly
7. Ghana Water Company Limited
8. Water Resources Commission

13.0 Future Plans of the School

1. Expand departmental networks and collaboration
2. Engage more relevant stakeholders

14.0 DEPARTMENT OF FISHERIES AND WATER RESOURCES

14.1 Introduction

The Department of Fisheries and Water Resources (DFWR) in the school of Natural Resources was established in 2013 by a statute of the University of Energy and Natural Resources. It is the foremost Centre among institutions of higher learning that is directly involved in research and training of fisheries and aquatic sciences in the Bono and Ahafo Regions. The Department is envisioned to lead in teaching and providing hands-on research, conducting outreach programs in promoting food security, aquatic resources management and employment creation. With a vibrant student society (FAS), an Aquaculture Demonstration Farm, state of the art water quality instruments and Ahotor fish smoker amongst others, the Department is poised to create a center of excellence for fisheries education, research, and outreaches that foster sustainable use of water and aquatic resources.

14.2 Activities of the Department

The Department introduced a straight BSc. Aquaculture and Aquatic Resources Management programme, which has been accredited and mounted for the past two sessions. An MPhil Sustainable Aquaculture programme was developed in the year under review and is undergoing accreditation. In addition, a BSc and MPhil in integrated Water Resources Management is likewise under review. The Department has participated in the annual Aquaculture Conference, Ghana organized by the Chamber of Aquaculture. With the support of the Ministry of Fisheries and Aquaculture Development, four tarpaulin tanks have been

secured for research and teaching at the Aquaculture demonstration site. Presently over five thousand (5000) catfish and tilapia fingerlings are being cultured at the site. Currently, the Department is in liaison with the Fisheries Commission and other stakeholders to provide technical advice and quality matured fish to farmers and consumers in the Region.

14.3Department of Fisheries and Water Resources is Headed by Dr. Seyramsarah Blossom Setufe

ii. Undergraduate Programmes:

c. BSc. Aquaculture and Aquatic Resources Management
d. BSc. Natural Resources (Fisheries and Aquaculture option)
e. BSc. Integrated Water Resources Management (Upcoming)

iii. Postgraduate Programmes

a. MPhil. Sustainable Aquaculture (upcoming)
b. MPhil. Integrated Water Resources Management (Upcoming)

14.4 Administration of the Department

The Department Administration is constituted by the following personnel:

1. Head of Department: Dr Seyramsarah Blossom Setufe
2. Principal Administrative Assistant: Ms Nancy Tuah
3. Senior Technician: Samuel Henneh

14.5 Contract Staff

» Mr. Abraham Tia
» Mr. Wilson

14.6 Staff and Students Statistics

Currently, the Department has a total of eight (8) teaching staff comprising, one Associate Professor, four Senior Lecturers and three Lecturers. Seventeen (17) students would be graduating from the Department in 2025 and thirty-six students are currently enrolled in Level 300. Since its inception, the Department has successfully graduated over 100 students in Undergraduate programmes.

14.7 Donations

The Department received Two hundred bags of fish feed and four (4) tarpaulin tanks donated by Fisheries Commission under the Ministry of Fisheries and Aquaculture Development, Ghana for the purpose of capacity building of students and stakeholders in the Aquaculture and Fisheries value-chain. These items were officially received and launched by the Vice-chancellor of the University of Energy and Natural Resources.

14.8 2024/2025 Publications: Prof. Berchie Asiedu

1. Asiedu, B., Samuel Kweku Konney Amponsah, SKK., Selasi Yao Avornyo, S.Y., Gbedemah, S. and Apochie, H. (2025). Sex Ratio, Spawning Cycle, and Size at Maturity of Bluespotted Seabream (Pagrus caeruleostictus, Valenciennes 1830) from the Coast of Ghana. Journal of Fisheries and Environment, 49 (1):35-45

2. Apraku, A., Baffoe, B., Amponsah, SKK., Ntim, L., Asiedu, B., Henneh, S. (2025). Impacts of Mining-Induced Pollution on Water Quality and Morphological Development of the African Catfish (Clarias gariepinus) and the Nile Tilapia (Oreochromis niloticus) in the Ankobra River Basin, Ghana. Egyptian Journal of Aquatic Biology & Fisheries, 29(4): 1795-1815
3. Alfatat, A., Amoah, K., Cai, J., Huang, Y., Fachri, M., Lauden, H.N., Lyu, S., Wang, X., Maulu, S., Asiedu, B. and Syafiuddin, S. (2025) Sustainable aquaculture and sea ranching with the use of vaccines: a review. Frontiers in Marine Science, 11:1526425. doi: 10.3389/fmars.2024.1526425.
4. Iyiola, A.O., Asiedu, B, Ogwu, M.C., Izah, S.C. and Akinsorotan, A.M. (2025). Sustainability Through AI in Fisheries. In: Artificial Intelligence in Fisheries. CRC Press. 1st Edition, 21 pp. DOI: 10.1201/9781003506287-5
5. Asiedu, B., Iyiola, A.O., Nkansah, E.A., Ipinmoroti, M.O., Akingba, O.O. (2025). Bioenergy Resources in the Global South. In: Ogwu, M.C., Izah, S.C., Merritt, H., Wise, R.D., Jintrawet, A. (eds) Sustainable Bioeconomy Development in the Global South. Springer, Singapore. https://doi.org/10.1007/978-981-96-0640-5_6
6. Iyiola, A.O., Asiedu, B., Ewutanure, J.S., Akingba, O., A.S and Idowu, C.F. (2025). Waste Streams of Biobased Products in the Global South. In: Ogwu, M.C., Izah, S.C., Merritt, H., Wise, R.D., Jintrawet, A. (eds) Sustainable Bioeconomy Development in the Global South. Springer, Singapore. DOI: 10.1007/978-981-96-0305-3_7
7. Iyiola, A.O., Akingba, O.O., Asiedu, B., Osei, S.A., Ogwu, M.C., Morya, S. (2025). Biobased Value-Added Products and Services from Biological Resources in the Global South. In: Ogwu, M.C., Izah, S.C., Merritt, H., Wise, R.D., Jintrawet, A. (eds) Sustainable Bioeconomy Development in the Global South. Springer, Singapore. https://doi.org/10.1007/978-981-96-0640-5_9
8. Assane, F. D. and Asiedu, B. (2024). The artisanal octopus fishery in Mauritania: A lucrative fishery in decline. Marine Policy, 169, 106335
9. Asiedu, B., Amponsah, S.K.K., Peirre, F., Apraku, A., Henneh, S., Ntim, L., Ackah, R., Amekor, W.D. and Nkansah, E.A. (2024). A Closer Look at Socio-Economic and Management Perspectives of Shark Fishery in Ghana. Journal of Wildlife and Biodiversity, 8(1), 366-385. DOI: https://doi.org/10.5281/zenodo.10206993
10. Apraku, A., Asiedu, B., Amponsah, SKK., Frimpong, I.K. Ntim, L. and Henneh, S. (2024). The impact of policies, regulations and interventions on aquaculture production in the eastern corridors of Ghana. Egyptian Journal of Aquatic Biology & Fisheries, 28(6): 301 – 321
11. Apraku, A., Xuxiong, H., Ayisi, C.L. and Asiedu, B. (2024). Fish Oil Replacement with Virgin Coconut and Corn Oil: Impact on Growth Performance, Lipogenic and Digestive Enzyme Activity, and mRNA Expression of Genes Involved in Lipid Metabolism of Nile tilapia (Oreochromis niloticus). Genetics of Aquatic Organisms 7(3), GA785. https://doi.org/10.4194/GA785.
12. Apraku, A., Asiedu, B., Amponsah, SKK., Frimpong, I.K. Ntim, L. and Henneh, S. (2024). The impact of policies, regulations and interventions on aquaculture production in the eastern corridors of Ghana. Egyptian Journal of Aquatic Biology & Fisheries, 28(6): 301 – 321

13. Huang, Y., Chen, Z., Zhang, J., Amoah, K., Asiedu, B., Cai, J., Wang, B. And Jian,

J. (2024). Novel C-type lectin mediated non-specific cytotoxic cells killing activity through NCCRP-1 in Nile tilapia (Oreochromis niloticus). Fish and Shellfish Immunology, 149, 109594. https://doi.org/10.1016/j.fsi.2024.109594
14. Li, X., Zhang, Z., Jiang, B., Huang, M., Feng, J., Huang, Y., Amoah, K., Asiedu, B., Yu, H. and Jian, J. (2024). Granzyme K provides protection for Nile tilapia (Oreochromis niloticus) from acute bacterial infection. Aquaculture Reports, 39, 102383.
15. Huang, Y., Tan, X., Feng, J., Zhang, Z., Amoah, K., Asiedu, B., Yu, H. and Jian, J. (2024). Cloning and characterization of Apolipoprotein A-IV (ApoA-IV) from Oreochromis niloticus involved in immune functions. Aquaculture Reports, 39, 102355.

14.9 Publications of Dr S. B. Setufe for 2024/2025 Sessions

1. Patrick Senam Kofi Fatsi, Koichiro Kawai, Ruby Asmah, Betty Bandoh Oppong, Ebenezer Koranteng Appiah, Shaharior Hashem, Acheampong Addo, Joyce Kplorla Kusorgbor, Emmanuel Kaboja Magna, Abraham Kusi Obeng, Lydia Quansah, Courage Kosi Setsoafia Saba, Juliana Bawah, Seyramsarah Blossom Setufe, Frank Adu-Nti, Miriam Yayra Ameworwor, Clara Ruth Quansah, Hidetoshi, Mercy Johnson-Ashun, Lilly Konadu Osei, Etornyo Agbeko, Francis Assogba Anani, Seth Koranteng Agyakwah Saito (2024): Immuno-modulation and Humoral Immune Response in Teleost Immunised with Aeromanas Derived Antigenic-Extracellular bioactive Molecules. Indian Journal of Microbiology: Pages 1-13.
2. Andrews Apraku, Yakubu Nantomah Shamsudeen, Berchie Asiedu, Lesley Ntim, Seyramsarah Blossom Setufe, Henneh Samuel, Samuel Amponsah (2024): Efficacy of Vernonia amygdalina on Columnaris Disease Management and Growth Enhancement in Nile Tilapia. Asian Journal of Biological Sciences. 18(1):136-145.

3. Adams Ovie Iyiola, Mabel Omowumi Ipinmoroti, Olamigoke Olawale Akingba, Jacob Somorhire Ewutanure, Seyramsarah Blossom Setufe, Jacob Bilikoni, Emmanuel Ofori-Boateng, Oiseoje Michael Wangboje (2024): Organic Chemical Pollutants Within Water Systems and Sustainable Management Strategies. Water Crises and Sustainable Management Strategies in the Global South. Pages 211-215.Springer Nature, Singapore.

4. Adams Ovie Iyiola, Ayotunde Samuel Kolawole, Seyramsarah Blossom Setufe, Jacob Bilikoni, Emmanuel Ofori, Matthew Chidozie Ogwu (2024): Fish as a Sustainable biomonitoring tool in Aquatic Environment. Biomonitoring of Pollutants in the Global South. Pages 421-450. Springer Nature, Singapore.

5. Adams Ovie Iyiola, Seyramsarah Blossom Setufe, Emmanuel Ofori, Jacob Bilikoni, Matthew Chidozie Ogwu (2024): Biomarkers for the detection of pollutants in the Water Environment. Biomonitoring of Pollutants in the global South. Pages 569-602. Springer Nature, Singapore.

6. Olarinke Adeniyi, Sajjad Pourmozaffar, Seyramsarah Blossom Setufe and Ibrahim Adeshina (2025): Effects of Dietary Supplementation of Euphorbia hirta on the Growth Performance, Serum Biochemistry, Antioxidative Status, and Immune Response of Clarias gariepinus. Agriculture Research. Volume 2025, Issue 1, Pg:1-

12.

7. SB Setufe, J Bilikoni, E Ofori-Boateng (2025): Renewable Energy Technologies for Sustainable Bioeconomy Development in the Global South. Sustainable Bioeconomy Development in the Global South: Volume I Status and Perspectives. Pages 183-207. Springer Nature Singapore.
8.. Seyramsarah Blossom Setufe, Emmanuel Kolawole Ajani, Benjamin Obukowho Emikpe, Samuel Temitope Ogunsanwo, Patrick Senam Kofi Fatsi, Andrews Apraku, Sajjad Pourmozaffar, and Ibrahim Adeshina (2025): Gut microflora, gut morphometry and haemato-biochemical analyses of juvenile Clarias gariepinus fed dietary Lactobacillus plantarum and guava (Psidium guavaja). Aquaculture Reports, Volume 45, 103120. Pp: 1-10.

Publications of Dr Amos Asase

1. Mpwaga, A. Y., Gyan, W.R., Qihui, Y., Beiping, T., Shuyan, C., Asase, A., Kou, S. and Asare, D.
(2023). A Review on the Use of Azolla Meal as a Feed Ingredient in Aquatic Animals' Diets.
Aquaculture Research,2023, 1-16. https://doi.org/10.1155/2023/2633412

2. Asase, A. Lauridsen, T.L., Sanful, P.O., Quansah, E.E.K. and Nunoo F.K.E. (2023). Status of diversity, abundance, and seasonal variations of gill net catches of cichlids in Lake Bosumtwi, Ghana. African Journal of Aquatic Science, 42 (3) 1-10.

Publications of Dr A. B. M Incoom

1. Abdul-Moomen M., Incoom, A. B. M., Amponsah, S.K.K. (2025). Assessing the effects of farming on water quality of fish farms in Ghana: the case study of Sunyani Municipality. International Journal of Agriculture, Environment and Food Sciences, 9 (2): 446-451.
https://doi.org/10.31015/2025.2.18

2. Incoom, A. B. M., Adjei, K. A., Odai, S. N., Siabi, E. K., Donkor, P., & Frimpong, K. (2025). Adaptation strategies by smallholder farmers to climate change and variability: The case of the savannah zone of Ghana. Sustainable Futures, 9, 100543.

3. Siabi, E. K., Kabo-Bah, A. T., Anornu, G., Akpoti, K., Mortey, E. M., Incoom, A. B. M., & Yeboah, K. A. (2025). Future land use simulation modeling for sustainable urban development under the shared socioeconomic pathways in West African megacities: Insights from Greater Accra Region. Journal of Environmental Management, 376, 124300.

4. Incoom, A.B.M., Adjei, K.A., Odai, S.N., Apkoti,K., Siabi, E., Awotwi A.(2023). Assessing Climate Model Accuracy and future climate change in Ghana's Savannah Regions. Journal of Water and Climate Change
DOI: 10.2166/wcc.2023.070

5. Siabi, E. K., Phuong, D.N.D., Kabobah, A, T., Apkoti,K.,Anornu, G., Incoom, A.B.M., Nyantekyi, E. K., Yeboah, K. A., Siabi, S. E., Vuu, C., et al (2023). Projections and Impact Assessment of local climate change of the Black Volta Basin of Ghana Based on Statistical Downscaling Model. Journal of Water and Climate Change .DOI: 10.2166/wcc.2023.352

6. Dr S. K.K. Amponsah's Publications

2024/2025 ACADEMIC YEAR

1. Amponsah, S. K. K., Ofori-Danson, P. K., & Kojo Armah, A. (2025). Population dynamics of deepwater rose shrimp (Parapenaeus longirostris, Lucas 1846) along the coast of Ghana. Iranian Journal of Fisheries Sciences, 24(5), 1081-1091.
2. Amponsah, S.K.K. (2025). Determining the population dynamics of Istiophorus albicans (Latreille, 1804) in coastal waters of the Gulf of Guinea using length frequency data. Aquatic Research, 8(3), 176-185.
3. Mohammed, A. M., Incoom, A. B. M., & Amponsah, S.K.K. (2025). Assessing the effects of farming on water quality of fish farms in Ghana: the case study of Sunyani Municipality. International Journal of Agriculture Environment and Food Sciences, 9(2), 446-451.
4. Asiedu, B., Amponsah, S. K. K., Avornyo, S. Y., Gbedemah, S., & Apochie, H. (2025). Sex Ratio, Spawning Cycle, and Size at Maturity of Bluespotted Seabream (Pagrus caeruleostictus, Valenciennes 1830) from the Coast of Ghana. Journal of Fisheries and Environment, 49(1), 35-45.
5. Amponsah, S. K.K., Apochie, H. T., & Ackah, R. (2025). Understanding transactional sex among small scale fisherfolks in Ghana. Marine and Fishery Sciences, 38(2).
6. Amponsah, S.K.K (2025). Preliminary studies on the population dynamics of African Sicklefish (Drepane africana, Osorio 1892) from the coast of Ghana. Aquatic Research, 8(1), 52-59.
7. Apraku, A., Asiedu, B., Shamsudeen, Y. N., Amponsah, S.K.K., Ntim, L., Setufe, B. S., & Henneh, S. (2025). Efficacy of Vernonia amygdalina on Columnaris Disease Management and Growth Enhancement in Nile Tilapia. Asian Journal of Biological Sciences, 18(1), 136-145.
8. Asiedu, B., Henneh, S., Apraku, A., & Amponsah, S.K.K. (2024). Impact of the coronavirus pandemic on the aquaculture industry in Sunyani Municipality, Ghana. International Journal of Social Sciences and Education Research, 10(4), 236-247.
9. Amponsah, S.K.K. (2024). Through the lens of fisherfolks: understanding shark fishing in Ghana for management and conservation purposes. Social Scientific Centered Issues, 6(2), 131-145.
10. Apraku, A., Asiedu, B., Frimpong, I. K., Amponsah, S.K.K., Ntim, L., & Henneh, S. (2024). The Impact of Policies, Regulations and Interventions on Aquaculture Production in the Eastern Corridors of Ghana. Egyptian Journal of Aquatic Biology & Fisheries, 28(6).
11. Amponsah, S.K.K., Armah, K. A., & Fazli, H. (2024). Differences in fish assemblage between fisheries-dependent and independent data in Ghana coastal waters. Iranian Journal of Fisheries Sciences, 23(6), 833-848.
12. Amponsah, S.K.K. (2024). Length-based growth, mortality, and biological reference

points of Chrysichthys nigrodigitatus (Lacepède, 1803) from the Yeji arm of Lake Volta, Ghana. Aquatic Research, 7(1), 8-14.
13. Amponsah, S.K.K., Avornyo, S. Y., Armah, A., & Azumah, M. (2024). Fish catch assessment of hook and line fisheries in Ghana. Comité De Pilotage Du Pasres/ Steering Board of Pasres, 42.

15.0 CENTRE FOR CLIMATE CHANGE AND GENDER STUDIES

15.1 Introduction

The Centre for Climate Change and Gender Studies (3CGS) was established in 2016 with the mandate to advance research, teaching, capacity building and policy advocacy on issues of Climate Change and Gender.

15.2 Administration of the Centre

The Centre Administration is constituted by the following personnel:

1.	Dr. Yaw Boakye Agyeman	Head
2.	Dr. Gyilbag Amatus	Part-time Research Fellow
3.	Rachel Yeboah Nketiah	Research Fellow
4.	Sylvia Adipah	Research Fellow
5.	Ama Ntiwaa Antwi-Boasiako Panford	Senior Administrative Assistant

15.3 Staff and Students Statistics

»	Staff	4
»	Part-time	1

15.4 Research Collaborations (Local and International)

15.5 International

- Partnership with the Institute of Oceans and Fisheries, University of British Columbia, Vancouver, Canada
- Partnership with the Centre for Transitional Environmental Accountability (CTEA), China on Climate Justice Research.
- Department of Computer Science, Norwegian University of Science and Technology (NTNU), Norway

15.6 Local

- Partnership with Action Aid
- Partnership with Youth Climate Council (YCC)

15.7 Workshops /Conferences/Public Lectures

- Climate Change Debate in September 2025
- Climate Change Quiz in July 2025
- Climate Change Education from March - June 2024.

15.8 Funding of Research Activities

- GHS 11,000 from Action Aid to organize Tree planting at Mmeredane Primary and JHS

15.9 Publications (for the year under review)

1. Akudugu, J. A., Apio, M. M., & Nketiah, R. Y. (2025). Gendered energy transition in rural Africa. In Elgar Encyclopedia of Energy Economics (pp. 255-260). Edward Elgar Publishing.

2. Addaney, M., Kantanka, S. N. S., & Nketiah, R. Y. (2025). African forests and global net-zero transitions. In Elgar Encyclopedia of Energy Economics (pp. 7-13). Edward Elgar Publishing.

3. Kantanka, S. N. S., Addaney, M., Nketiah, R. Y., Mensah, S. O., & Almulhim, A. I. (2025). 4. Climate change and adaptation to extreme heat in the Middle East and North Africa. Handbook on Planning and Climate Change Adaptation, 69.
4. Ofori, D, Gyilbag, A., Kakraba, K.B., Morvey, M.D. & Mwinkom, F.X.K. (2025). The Economics of Sustainable Water Resource Availability for Food Production in Ghana. African Journal of Agriculture ISSN 2375-1134 Vol. 12 (3)
5. Ofori, D. Kusi, A., Oppong-Peprah, E., Kwaku Nyarko, B., Anning, G., Edmond, A., & Gyilbag, A. (2025). Staff Performance in Small and Medium Enterprises as an impetus for economic growth in Kumasi Metropolis. International Journal of Management, Entrepreneurship, Social Science and Humanities, 8(2), 334–353. https://doi.org/10.31098/ijmesh.v8i2.2678
6. Iddi Z., Gyilbag, A., Kabo-Bah, A.T., Abugre, S., Walier, K.J. (2025). Shea Parkland Resilience: Re-examining Drivers of Deforestation in the Savannah Region of Ghana. Journal of Nature-based Solutions.

16.0 Community Engagements

Climate Change Education and Quiz in Basic and Senior High Schools

- Tree Planting project at Mmeredane Primary and JHS in collaboration with Action Aid Ghana
- Engage with Hwidiem and Tano Ano communities to co-develop research.

16.1 Visits

- Visits were made to Tuobodom, Techiman, Tano Ano and Hwidiem for data collection under the Integrated Tano River Research.

16.2 Future Plans of the Centre

- Develop MSc (Research and Professional) programmes.
- Develop short courses in climate change, gender and its related issues.
- Write grant proposals to conduct more research on climate change and gender-related studies.
- Collaborate with more stakeholders to engage in climate change education and sensitization.
- Launch a Youth Ambassadorial Programme in Climate Change

- Presenter: 21st International Business Congress, UIK. https://www.isletmecilik.org/page.aspx?sID=79., Online , 12th to 14 May, 2022.

SCHOOL OF AGRICULTURE AND TECHNOLOGY (SoAT)

SCHOOL OF AGRICULTURE AND TECHNOLOGY

Introduction

Introduction (Establishment)
The School of Agriculture and Technology was established in the 2014/2015 academic year at the Dormaa Ahenkro Campus. The School of Agriculture and Technology is poised to provide a vibrant and robust leadership to the agricultural industry to meet the increasing demand for food and raw materials for industrial and export purposes. The School seeks to become the leading institution in the provision of hands-on agriculture and its related fields of education. As a result, the programmes offered by the School provide graduates with a working knowledge of a broad span of agriculture and related fields. Additionally, our programmes assist students in developing the core skills in job creation and employment-related experiences that employers, professional organisations and academic institutions value.

TaDepartments and Research Centres/Institutes
Currently, the School has the following Departments/Centre:

- Department of Agribusiness Management and Consumer Studies

Head of Department Prof. Richard Kwasi Bannor

- Department of Horticulture and Crop Production
  Head of Department Dr. Abdulai Muntala

- Department of Animal Production and Health
  Head of Department Dr. Peter Asiedu

- Department of Agricultural and Resources Economics
  Head of Department Dr. Tekuni Nakuja

- Department of Food Science and Technology
  Head of Department Prof. James Owusu Kwarteng

- Centre for Agriculture Technology, Research and Production
  Head of Centre Dr. Patrick M. Norshie

DEPARTMENT OF AGRIBUSINESS MANAGEMENT AND CONSUMER STUDIES
The Department of Agribusiness Management and Consumer Studies offers both undergraduate and postgraduate market-driven programmes in Agribusiness Management. The programmes are B.Sc. Agribusiness, MBA Agribusiness Management, MPhil Agribusiness Management and PhD Agribusiness Management. Our programmes are designed to cover all business, general management, marketing, economics, accounting, and

finance disciplines so that students can apply concepts from these disciplines to agribusiness and allied industries. Our programmes aim to train students who wish to pursue managerial-level careers in agripreneurship, research, agricultural planning, policy, trade, teaching, and consultancy in food production, processing, agricultural output and input marketing, agricultural finance, supply chain, and food and agribusiness allied sectors.
The Department has well-motivated, dynamic, young yet experienced, and dedicated lecturers who provide excellent theoretical and practical content for courses in agribusiness. Our innovative programmes, distinguished faculty and competitive students place the Department among the best in agribusiness education in the sub-region. Our graduates are well-equipped and have won several highly competitive scholarships internationally. On the job market, our graduates have gained employment in reputable agribusiness organisations, while others have started their own agribusinesses and consultancies.

DEPARTMENT OF HORTICULTURE AND CROP PRODUCTION

The Department of Horticulture and Crop Production is one of the vibrant Departments in the School of Agriculture and Technology. The Department was established in the 2013/2014 academic year to offer agricultural education to students for a future career as professional scientist or agronomist. The Department seeks to be the forefront in addressing issues of agriculture, food security and nutrition. The Department offers a 4-year Bachelor of Science undergraduate degree in Agriculture, with coverage on curriculum that will promote the versatility of our graduates in the production, protection and processing of crops with excellent skills in scientific applications for the market and graduate studies programmes locally and globally. The Department also runs postgraduate studies (MSc, MPhil and PhD) in crop Science with specialization in entomology, postharvest technology, Agronomy and Pathology.

DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH

Introduction (Establishment)
The Department of Animal Production and Health was established in the 2020/2021 academic year. The department has a total of 6 teaching staff and 1 administrative assistant. Two lecturers out of the 6 are currently promoted to senior members in the Department in the 2022/2023 and 2023/2024 academic years respectively, with ones' promotional documents under review.

The Department of Animal Production and Health undertakes the following activities;

- Teaching of Agriculture related courses.
- Weekly seminar series for undergraduate students.
- Field farm visits for students.
- Counselling sessions for final year students.
- Development of new programmes.

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

The department's teaching and research focuses on Food Science and sustainable Technologies. The academic programs integrate principles and concepts in the physical, biological and engineering sciences, and applies them to the scientific and technological

aspects of food processing geared towards delivering safe, quality, healthy and convenient food products from the farm gate to the consumer.

CENTRE FOR AGRICULTURAL TECHNOLOGY, RESEARCH AND PRODUCTION (CATREP)

The Centre for Agriculture Technology, Research and Production (CATReP) was excellently instituted and inaugurated by the Vice-Chancellor's transformative vision. This centre comes to complements the efforts of the School of Agriculture and Technology-SoAT. Since its inauguration, CATReP works with a vision:" To be a critical centre for Agriculture technology, innovation and hands-on training in the sub-region".

With various initiated agriculture research and commercial production activities, the goal is to establish a self-sustaining centre for broadening knowledge, practical skills and agripreneurship training to several stakeholders. The pursuit of its mandates is tied with strong values of Research, Efficiency, Extension, Innovation, Professionalism and Sustainability.

MISSION

The Centre is into the business of disruptive technology innovation, commercial agriculture production and hands-on training of agriculture and related stakeholders for the development of Africa.

Major Activities over the Past Years

Completed Activities

- Commercial maize, vegetable and broiler production
- Researches:
- Industrial Research Facilitation/Collaboration
- IFDC/UENR Fertilizer trial on maize
- OCP/UENR fertilizer trials on: Maize, Soya beans, Tomatoes, Onions, Cowpea
- Academic Research Facilitation/ Collaboration
- DHCP/CATReP Final year students' project works/ practical training sessions
- AHP/CATReP Final year students' project works/ practical training sessions
- CATReP/Diploma L200 Agric students' project works/practical training sessions
- CATReP/DAMCS L100 on-field demonstration projects (vegetables)
- CATReP/Diploma L100 Agric students' demonstration projects (vegetables)
- Industrial Attachment for 5 DHCP students

Ongoing Activities

Crop Production:

- A ten-acre maize was harvested in August 2025 and safeguarded at the new site.
- Procurement process for maize production during the major and minor seasons of 2026.
- A six-acre cocoa/plantain cultivation is established at the new site.
- A four-acre mango/cassava/cocoyam intercropping at the new site.
- A two-acre cashew is established at the new site.

Livestock production:

- 30 goats (15 males and 15 females) and a bull, and a cow are under management.
- Procurement process for the construction of a cattle ranch at the centre. 1000 broilers (250 quarterly) at Okuafopa Agribusiness Centre.

Collaborative Research

- TAGDev. 2.0 Project on Pineapple production (0.5 acres) (2024 till date).
- Establishment of a research section for students and faculty members.
- Two acres of land have been allocated to students' field studies. Of these, one acre is at the new site and another at Okuafopa Agribusiness Centre.
- A ten-acre land had been allocated for the China-Ghana Luban Workshop.

Academic Programmes under each Department

Name of Department	Programmes
Department of Agribusiness Management and Consumer Studies	B.Sc. Agribusiness
	MBA/MPhil Agribusiness Management
	PhD Agribusiness Management
Department of Horticulture and Crop Production	B.Sc. Agriculture (Options in Horticulture and Crop Production, Soil Science and Postharvest Technology)
	Diploma in Agriculture
	M.Sc., MPhil and PhD Crop Science (Entomology, Pathology, Post-harvest technology and Agronomy options)
Department of Animal Production and Health	B.Sc. Agriculture (Animal Production option)
	MSc Animal Science and Production
	MPhil in Animal Science and Production
Department of Agricultural and Resource Economics	BSc Agriculture (Extension option)
	BSc Agricultural and Resource Economics
Department of Food Science and Technology	BSc Food Technology

ADMINISTRATION OF THE SCHOOL

The following personnel constitutes the School Administration:

Prof. John K. M. Kuwornu	Dean, SoAT
Mr. Ernest Bachela Mbawini	School Registrar
Mr. Samuel Asante Boateng	Senior Administrative Assistant

STAFF AND STUDENT STATISTICS

i. Staff Statistics

S/N	Rank	Male	Female	Total
1	Professor	2		2
2	Assoc. Professors	3		3
3	Senior Lecturers	14	2	16
4	Lecturer	12	2	14
5	Assistant Lecturer	1	1	2
6	Assistant Research Fellow	1		1
7	Chief/Senior Research Assistants/ Technicians	6		6
8	Assistant Registrars	1		1
9	Principal/Senior Administrative Assistant	2	2	4
10	Junior Staff	2		2
11	Contract Staff	1	2	3
	Grand Total	**45**	**9**	**54**

A. Staff List

S/N	Name		Rank/Position
Department of Agribusiness Management and Consumer Studies			
1	Prof. Richard Kwasi Bannor	hhh	Associate Professor/ HoD
2	Ms. Helena Oppong-Kyeremeh		Senior Lecturer
3	Dr. Nicholas Oppong Mensah		Senior Lecturer
4	Mr. Anthony Donkor		Lecturer

5	Mr. Frank Osei Tutu		Lecturer
6	Mr. Ebenezer Bold		Assistant Lecturer
7	Ms. Abigail Oparebea Boateng		Assistant Lecturer
8	Mr. Justice Darko		Chief Research Assistant
9	Mr. Bennet Kwakye		Senior Administrative Assistant
Department of Agricultural and Resource Economics			
10	Dr. Tekuni Nakuja		Senior Lecturer/HoD
11	Prof. John K.M. Kuwornu		Professor/Dean, SoAT
12	Dr. Bismark Amfo		Senior Lecturer
13	Dr. Samuel Afotey Anang		Senior Lecturer
14	Dr. Lesley Hope		Lecturer
15	Dr. Maanikuu P.M. Izideen		Lecturer
16	Dr. Boahen Atta Oppong		Lecturer
17	Dr. Dominic Boateng-Gyambiby		Lecturer
18	Dr. Daniel Aidoo Mensah		Lecturer
19	Ms. Jennifer Tenewaa Djan		Contract/ Administrative Assistant
Department of Horticulture and Crop Production			
20	Dr Abdulai Muntala		Senior lecturer/HoD
21	Prof. Charles Adarkwah		Associate Professor
22	Dr. Samuel Asomaning		Senior Lecturer
23	Dr. Patrick M. Norshie		Senior Lecturer
24	Dr. Jacob P. Anankware		Senior Lecturer
25	Dr Kwadwo Gyasi Santo		Senior Lecturer
26	Dr. Daniel Ntiamoah Afreh		Senior Lecturer
27	Dr Paa Kwesi Bordoh		Senior Lecturer
28	Dr Esther Fobi Donkor		Senior Lecturer
29	Dr Abdul Khalid Aziz		Senior Lecturer
30	Dr. Kwabena Atakora		Senior Lecturer
31	Dr Felix Eyahanyo		Lecturer
32	Dr. Samuel Norvor		Lecturer
33	Mr. Joseph Nyarko		Assist. Research Fellow
34	Mr. Remember Roger Adjei		Snr. Research Assist.
35	Mr. Shadrack Asomah		Snr. Lab. Technician

36	Mrs. Ernestina Darkowaa		Senior Administrative Assistant
Department of Animal Production and Health			
37	Dr. Peter Asiedu		Senior Lecturer/ HoD
38	Dr Bernard Ato Hagan		Senior Lecturer
39	Mr. Ernest Darkwah Yeboah		Lecturer
40	Dr Moses Addo Nartey		Lecturer
41	Mr. Christian Asumah		Lecturer
42	Mr. Benard Quaye		Research Fellow
43	Ms. Edith Adasi Ayarkwa		Senior Administrative Assistant
Department of Food Science and Technology			
44	Prof. James Owusu Kwarteng		Associate Professor/ HoD
45	Prof. Dominc Agyei		Adjunct Professor
46	Dr. Evans Frimpong Boateng		Lecturer
47	Dr. Rita Dankwa		Lecturer
48	Mr. Dominic Nyame		Contract/Senior Research Assistant
49	Ms. Linda Achiaa		Contract/ Administrative Assistant
Centre for Agriculture Technology, Research and Production			
50	Dr. Patrick M. Norshie		Senior Lecturer/Head
51	Mr. Joel Amponsah		Asst. Farm Manager
52	Mr. Salifu Faisal		Senior Technician
53	Mr. Dickson Amosah		Farm Overseer
54	Kofi Asante		Contract staff

Staff of the Department of Horticulture and Crop Production

ii. Students Statistics

Department of Agribusiness Management and Consumer Studies			
BSc Agribusiness			
Level	**Male**	**Female**	**Total**
100	39	27	66

200	43	21	64
300	38	18	56
400	24	13	37
Sub Total	114	79	223
Postgraduate			
MBA Agribusiness			
1st Year	10	3	13
2nd Year	9	3	12
Sub Total	19	6	25
MPhil Agribusiness			
1st Year	14	5	19
2nd Year	16	3	19
Sub Total	30	8	38
PhD Agribusiness			
1st Year	6	2	8
Sub Total	6	2	8
Department of Horticulture and Crop Production			
Diploma in Agriculture			
Level	**Male**	**Female**	**Total**
100	0	0	0
200	14	12	26
Sub Total	14	12	26
BSc Agriculture			
Level			
100	52	14	66
200	39	10	49
300 (Horticulture and Crop Production option)	52	19	71
400	26	4	30
Sub Total	169	47	216
Postgraduate			
MSc Crop Science			
1st Year			
2nd Year	4	0	4
Sub Total	4	0	4

MPhil Crop Science			
1st Year			
2nd Year	17	0	17
Sub Total	17	0	17
PhD Crop Science			
1st Year			
2nd Year	5	1	6
Sub Total	5	1	6
Department of Animal Production and Health			
BSc Agriculture (Animal Production option)			
Level	Male	Female	Total
300	36	10	46
400	15	9	24
Sub Total	23	5	28
MPhil in Animal Production and Health			
Level	Male	Female	Total
1st Year	13	3	16
2nd Year	5	1	6
Sub Total	18	4	22
Department of Agricultural and Resource Economics			
BSc Agricultural and Resource Economics			
Level	**Male**	**Female**	**Total**
100	**13**	**0**	**13**
200	**11**	**0**	**11**
300	**1**	**0**	**1**
Sub-Total	**25**	**0**	**25**
BSc Agriculture (Extension Option)			
Level	**Male**	**Female**	**Total**
300	**4**	**0**	**4**
400	**16**	**0**	**16**
Sub Total	**20**	**0**	**20**
Department of Food Science and Technology			
BSc Food Science and Technology			
Level	**Male**	**Female**	**Total**
100	5	81	86

200	1	48	49
Sub Total	6	129	135
Grand Total	470	293	793

PUBLICATIONS
PROF RICHARD KWASI BANNOR
RESEARCH INTERESTS/ACTIVITIES

Input and Output Marketing
Celebrity, Digital, Food and Social Media Marketing
Agribusiness Supply Chains and Consumer Studies
TQM Application in Marketing

ACADEMIC QUALIFICATIONS

PhD Agribusiness Management, SKRAU- Bikaner, India
Master of Agricultural Administration, UG-Accra, Ghana
B.Sc. Agriculture, UCC-Cape Coast, Ghana

RESEARCH PUBLICATIONS

1. Kyire, S.K.C., Dhaka, S.S., Bannor, R.K., Asare, J.K. (2025). Climate change and food security nexus in Ghana: The role of renewable energy. Science of the Total Environment, 2025, 963, 178454. https://doi.org/10.1016/j.scitotenv.2025.178454.
2. Kyire, S.K.C., Bannor, R.K., Kuwornu, J.K.M., Oppong-Kyeremeh, H. (2025). Credit access and intensity of borrowing by irrigated rice farmers in Ghana: the role of extension services. Journal of Agribusiness in Developing and Emerging Economies, 15(2), pp. 249–268. https://doi.org/10.1108/JADEE-02-2023-0036.
3. Bannor, R.K., Oppong-Kyeremeh, H., Boateng, A.O., Bold, E., Gruzah, B. (2025). Short supply chain choice and impact amongst rice processors in rural Ghana. Journal of Agribusiness in Developing and Emerging Economies, 15(1), pp. 150–172. https://doi.org/10.1108/JADEE-03-2023-0049.
4. Kabo-Bah, J.B.W., Bannor, R.K. (2025). E-commerce among grain traders and its impact on marketing. Sustainable Technology and Entrepreneurship, 4(1), 100090. https://doi.org/10.1016/j.stae.2024.100090.
5. Bannor, R.K., Kyire, S.K.C., Oppong-Kyeremeh, H., Boateng, A.O. (2025). Street food consumption and repurchasing decisions among urban consumers in Ghana. Journal of International Food and Agribusiness Marketing. https://doi.org/10.1080/08974438.2025.2498123.
6. Bannor, R.K., Boateng, A.O., Oppong-Kyeremeh, H., Bold, E. (2025). Direct, indirect and mediation effects of consumer ethnocentrism on the willingness to pay premium price for locally produced honey. Journal of International Food and Agribusiness Marketing, 37(2), pp. 296–327. https://doi.org/10.1080/08974438.2024.2321861

DR. HELENA OPPONG-KYEREMEH

RESEARCH INTERESTS/ACTIVITIES

Branding of Agribusinesses and Agribusiness Products
Customer Relationship Management
Agribusiness Value Chains
Consumer Studies

ACADEMIC QUALIFICATIONS

PhD Agribusiness Management, KNUST-Kumasi, Ghana
MPhil Agricultural Economics, KNUST-Kumasi, Ghana
BSc Agriculture., UCC- Cape Coast, Ghana

RESEARCH PUBLICATIONS

1. Kyire, S.K.C., Bannor, R.K., Kuwornu, J.K.M., Oppong-Kyeremeh, H. (2025). Credit access and intensity of borrowing by irrigated rice farmers in Ghana: the role of extension services. Journal of Agribusiness in Developing and Emerging Economies, 15(2), pp. 249–268. https://doi.org/10.1108/JADEE-02-2023-0036.
2. Bannor, R.K., Oppong-Kyeremeh, H., Boateng, A.O., Bold, E., Gruzah, B. (2025). Short supply chain choice and impact amongst rice processors in rural Ghana. Journal of Agribusiness in Developing and Emerging Economies, 15(1), pp. 150–172. https://doi.org/10.1108/JADEE-03-2023-0049.
3. Bannor, R.K., Kyire, S.K.C., Oppong-Kyeremeh, H., Boateng, A.O. (2025). Street food consumption and repurchasing decisions among urban consumers in Ghana. Journal of International Food and Agribusiness Marketing. https://doi.org/10.1080/08974438.2025.2498123.
4. Bannor, R.K., Boateng, A.O., Oppong-Kyeremeh, H., Bold, E. (2025). Direct, indirect and mediation effects of consumer ethnocentrism on the willingness to pay premium price for locally produced honey. Journal of International Food and Agribusiness Marketing, 37(2), pp. 296–327. https://doi.org/10.1080/08974438.2024.2321861

DR. NICHOLAS OPPONG MENSAH

RESEARCH INTERESTS/ACTIVITIES

Risk and Social Protection Management
Marketing Communications
Agricultural insurance

ACADEMIC QUALIFICATIONS

PhD Agribusiness Management, KNUST-Kumasi, Ghana
MPhil Agribusiness, UG-Accra, Ghana
MBA Marketing and Corporate Strategy, KNUST-Kumasi, Ghana
B.Sc. (Hons), Chemistry UCC- Cape Coast, Ghana
Diploma (Education), UEW-Winneba, Ghana

Diploma (Applied Insurance Studies) GIC& Malta Int. Training Centre

RESEARCH PUBLICATIONS

1. Zumanye, E., Mensah, N.O., Udimal, T.B., Nakuja, T., Anang, S.A., Yenibehit, N. (2025). Determinants of motives for keeping small ruminants: Evidence from the Northern Ghana. Small Ruminant Research, 246, 107476. https://doi.org/10.1016/j.smallrumres.2025.107476
2. Asare, J.K., Mensah, N.O., Agyemang, P., Matthew, A., Dhaka, S.S. (2025). Perception and willingness to participate in warehouse receipt system: insights from cashew farmers in the Bono region of Ghana. International Journal of Social Economics, 52(2), pp. 236–252. https://doi.org/10.1108/IJSE-12-2023-0946
3. Oppong, P.K., Oppong Mensah, N., Berko, D. (2025). Word-Of-Mouth and Willingness to Pay (WTP) Price Premium: Mediating Role of Herbal Brand Credibility and Brand Trust in Ghana. Journal of African Business, 26(1), pp. 47–64. https://doi.org/ 10.1080/15228916.2023.2277574
4. Kwabena Agyiri Yeboah, Nicholas Oppong Mensah, Thomas Bilaliib Udimal, Jeffery Kofi Asare (2026). Optimizing poultry manure commercialisation for alternative income generation: Implications for sustainable growth in poultry agribusiness. Environmental Development, Volume 57, 101342, ISSN 2211-4645. https://doi.org/10.1016/j.envdev.2025.101342.
5. Emmanuel Zumanye, Nicholas Oppong Mensah, Thomas Bilaliib Udimal, Tekuni Nakuja, Samuel Afotey Anang, Nanii Yenibehit (2025). Determinants of motives for keeping small ruminants: Evidence from the Northern Ghana. Small Ruminant Research, Volume 246, ISSN 107476,0921-4488. https://doi.org/10.1016/j.smallrumres.2025.107476.

MR. FRANK OSEI TUTU

RESEARCH INTERESTS/ACTIVITIES

Corporate Governance
Corporate Finance
International Financial Reporting Standards

ACADEMIC QUALIFICATIONS

MPhil – Finance, KNUST-Kumasi, Ghana
MBA – Finance, KNUST-Kumasi, Ghana
Bachelor of Commerce. (BCOM), UCC-Cape Coast, Ghana
Diploma in Education, UEW-Winneba, Ghana

PROFESSIONAL QUALIFICATIONS

Chartered Accountant – ICA-GH, Member
Chartered Banker – CIB-GH, Member

MR EBENEZER BOLD

RESEARCH INTERESTS/ACTIVITIES

International Agribusiness and Trade
Consumer Behavior and Market Trends
Digital and Social Media Marketing
Technological innovations in Agriculture and Agribusiness.

ACADEMIC QUALIFICATIONS

MPhil Agribusiness Management, UENR, Sunyani-Ghana
MBA International Business and Marketing, PDM University- New Delhi-India
B.Sc. Agribusiness, UENR-Sunyani, Ghana

RESEARCH PUBLICATIONS

1. Bannor, R.K., Oppong-Kyeremeh, H., Boateng, A.O., Bold, E., Gruzah, B. (2025). Short supply chain choice and impact amongst rice processors in rural Ghana. Journal of Agribusiness in Developing and Emerging Economies, 15(1), pp. 150–172. https://doi.org/10.1108/JADEE-03-2023-0049.
2. Bannor, R.K., Boateng, A.O., Oppong-Kyeremeh, H., Bold, E. (2025). Direct, indirect and mediation effects of consumer ethnocentrism on the willingness to pay premium price for locally produced honey. Journal of International Food and Agribusiness Marketing, 37(2), pp. 296–327. https://doi.org/10.1080/08974438.2024.2321861

Ms. ABIGAIL OPAREBEA BOATENG

RESEARCH INTERESTS/ACTIVITIES

Power Dynamics in Supply Chain Management
Artificial Intelligence in Agriculture Human Resource Management
Customer Capital Management
Employees Capital Management

ACADEMIC QUALIFICATIONS

MPhil Agribusiness Management, , UENR, Sunyani-Ghana
MBA International Business and Marketing, PDM University- New Delhi-India
B.Sc. Agribusiness, UENR, Sunyani-Ghana

RESEARCH PUBLICATIONS

1. Bannor, R.K., Oppong-Kyeremeh, H., Boateng, A.O., Bold, E., Gruzah, B. (2025). Short supply chain choice and impact amongst rice processors in rural Ghana. Journal of Agribusiness in Developing and Emerging Economies, 15(1), pp. 150–172. https://doi.org/10.1108/JADEE-03-2023-0049.
2. Bannor, R.K., Kyire, S.K.C., Oppong-Kyeremeh, H., Boateng, A.O. (2025). Street food consumption and repurchasing decisions among urban consumers in Ghana.

Journal of International Food and Agribusiness Marketing. https://doi.org/10.1080/08974438.2025.2498123.
3. Bannor, R.K., Boateng, A.O., Oppong-Kyeremeh, H., Bold, E. (2025). Direct, indirect and mediation effects of consumer ethnocentrism on the willingness to pay premium price for locally produced honey. Journal of International Food and Agribusiness Marketing, 37(2), pp. 296–327. https://doi.org/10.1080/08974438.2024.2321861

MR. JUSTICE ERIC DARKO

RESEARCH INTERESTS/ACTIVITIES

Agribusiness Marketing
TQM in Agribusiness
Agricultural Supply and Value Chains

ACADEMIC QUALIFICATIONS

MPhil-Agribusiness Management, UENR-Sunyani, Ghana
CEMBA – KNUST, Kumasi, Ghana
BSc. Banking and Finance – UPSA-Accra, Ghana
HND Statistics - Koforidua Polytechnic-Koforidua, Ghana
Certificate-General Agriculture, Damango Agricultural College-Damongo, Ghana

FUTURE PLANS

- Develop a programme on Food and Agribusiness Marketing by the next academic year.
- Develop certificate courses in agribusiness financial management, digital marketing and research.
- Collaborate with professional bodies like the Chartered Institute of Management Accountants (CIMA), CIMG etc, to give exemptions to graduates of our programmes.
- Collaborate with the Ghana Society of Agribusiness Scientists (GSAS) on workshops.
- Develop special modules for training of communities around the University.

ESTHER FOBI DONKOR (Ph.D.)

Research Collaborations (Local and International)

- Plant Genetic Resources and Research Institute, Bunsu GhanaI: Characterization of Amaranthus species based on agromorphological parameters.
- CSRI -SARI and CRI: Harnessing the potential of wild yams for food and nutritional securities in Ghana,3. CRIG: Breeding for improved yield and fatty acid content in sheabutter.

Webinar

- Imaging Solutions for Seed Banks: Characterization of Accessions During Regeneration" by Crop Trust
- Harnessing AI-Enhanced Phenomics for Sustainable Crop Improvement: Insights

from the Alliance of Bioversity International and CIAT. by African Plant Breeders Association.
- Exploring Advancements in Molecular Breeding Programs and Associated Technologies by APBA
- Online Symposium on Precision Agriculture for Crop Improvements: Advancing Efficiency with Smart Technologies in Africa by African Plant Science.

Grants
- UENR- CeGRI Grant Funding Programme (GFP)

Publications (for the year under review)
- Twumasi, P., Asare, P. A., Afutu, E., Amenorpe, G., Addy, S. N. T. T., Prempeh, R., & Donkor, E. F. (2024). Genetic diversity of tiger nuts (cyperus esculentus l.) Grown in Ghana based on morpho-descriptors and SSR markers. Journal of Agricultural Sciences (Sri Lanka), 19(2). https://doi.org/10.4038/jas.v19i2.10091
- Samuel Novor and Donkor, E. F. (2024). Harnessing the potential of tiger nut (Cyperus esculentus L.) for food and nutritional security, good health and economic development of Ghana or Africa. A review. Australian Journal of Crop Science, 18(07):416-424. https://doi.org/10.21475/ajcs.24.18.07.p4074 3.
- Amenga, J. A., Donkor, E. F., Atakora, K., & Novor, S. (2025). Agronomic Evaluation of Cowpea (Vigna Unguiculata L.) Lines for Varietal Development in the Brekum West Municipality of Ghana. Ecological Genetics and Genomics, 100332. https://doi.org/10.1016/j.egg.2025.100332 xix.
- Cole, Y. H., Amadu, B., Lamptey, J. N., Oppong, A., Ribeiro, P. F., Bam, R. K., Agyemang, K. O., Gamenyah, D. D., Issah, N., Aculey, P., Lee, S.-B., Donkor, E. F., Isaac, B., & Asante, M. D. (2025). Assessment of genetic variability for rice yellow mottle virus resistance in newly introduced rice (Oryza sativa L.) germplasm in Ghana. Journal of Plant Pathology. https://doi.org/10.1007/s42161-025-02012-y xx.

- Bruce, W., Donkor, E.F. & Samuel Novor (2025). Effect of cocoa pod husk-based compost and watering frequencies on phytophthora seedling blight disease suppression and seedling growth of cocoa clones. Acta Agriculturae Slovenica, 121(3) https://doi.org/10.14720/aas.2025.121.3.21676 6.
- Boadu Sober Ernest, Esther Fobi Donkor, Charles Afriyie-Debrah, Maxwell Darko Asante, Ralph K. Bam, Priscilla Francisco Ribeiro, Kirpal Agyemang Ofosu, Samuel Novo, Daniel Dzorkpe Gamenyah, Vincent Opoku Agyemang (2025) Varietal Reponses of rice (Oryza sativa L.) to different Nitrogen levels under Conventional Production Systems. (Preprint) doi: https://doi.org/10.1101/2025.10.10.681668/

Community Engagements
- Training of Farmers and MoFA Extension officers in Greater Accra, Ashanti and Eastern Regions on Gender Responsive Agriculture, sponsored by Farming in Africa.

FELIX AMENYO EYAHANYO (Ph.D.)

Research Collaborations (Local and International)
- Local with other lecturers from the department of horticulture KNUST

Workshops/Conferences/Public Lectures
- Academic training programme on agroecology and food systems

- Industrial Attachment Training Workshop
- DAAD Research Ambassador Programme

Community Engagements

- DAAD Research Ambassador (2025-2027)

Visits

- Akumadan Irrigation Scheme and Greenhouse Village

MUNTALA ABDULAI (Ph.D.

Research Collaborations (Local and International)

- Consultant in respect of ATPS AI4FS+Project- Artificial Intelligence in Plant disease detection- International

Workshops/Conferences/Public Lectures

- Transforming Ghana's Rice Future: Genome Editing for Higher Yields, Resilience, and Climate Adaptation, BNARI- GAEC, 10th April 2025

Grants and Awards

- ATPS AI4FS+Project scale up, 2025

Funding of Research Activities

- African Technology Policy Society Network (ATPS Grant No. AI4AFS/GR/AFS-1233809296).

Publications (for the year under review)

- Ablormeti FK, Honger JO, Lutuf H, Obeng J, Muntala A, Osabutey AF, Ochar K, Otoo BA, Sossah FL, Ndede Yankey E, Dofuor AK, and Aidoo OF (2025). Threats to global food security from emerging phytoplasma crop diseases. The Journal of Agricultural Science 163, 365â"380. https:// doi.org/10.1017/S0021859625100178.

DANIEL NTIAMOAH AFREH (Ph.D.)

Publications (for the year under review)

- Dennis, A. O., Gyasi Santo, K., Khalid, A. A., Atakora, K., Ntiamoah, D. A., Abdulai, M. and Adjei, E. (2024). Growth, yield and grain quality of cowpea (Vigna unguiculata (L.) Walp.) and weed flora as affected by physical and chemical methods of weed control. Legume Science,6 (4),1-15. https://doi.org/10.1002/leg3.70010 2.
- Essel, E., Gyasi Santo, K., Berchie, J.N., Khalid, A.A., Abdulai, M., Atakora, K., Ntiamoah, D.A., Norshie, P.M. and Novor, S. (2024). Yield Response of Bambara Groundnut [Vigna subterranea (L.) Verdc.] to Phosphorus Nutrition and Plant Spacing. Indian Journal of Agricultural Research, 58 (5), 811-815. 10.18805/IJARe.AF-807. 3.
- Gyasi Santo, K., Ansu, E., Khalid, A.A., Abdulai, M., Afreh, D.N., Atakora, K., Norshie, P.M. and Novor, S. (2024). Effects of Different Doses of Nitrogen on Growth and Nitrogen Use Efficiency of Maize (Zea mays L.) in Berekum Municipality of Ghana. Agricultural Science Digest,1-7. 10.18805/ag.DF-559.

DR. KWADWO GYASI SANTO (Ph.D.)

Research Collaborations (Local and International)

Agri-food Systems Community Action Research and Entrepreneurship (ASEC) Project on sustainable pineapple production, a collaboration between University of Cape Coast and University of Energy and Natural Resources

Grants and Awards

- Kosmos Innovation Centerâ€™s Agri Tech Challenge Project, a collaboration between UENR and Kosmos Innovation Center, Agri-food Systems Community Action Research and Entrepreneurship (ASEC) Project, a collaboration between University of Cape Coast and University of Energy and Natural Resources

Publications (for the year under review)

- Yeboah, F. P., Gyasi Santo, K., Ntiamoah Afreh, D., Khalid, A. A., Atakora, K., Abdulai, M., Novor, S. and Osei, R. (2025). Response of sweet pepper (Capsicum annuum L.) to different levels of topping and mulching materials. International Journal of Vegetable Science, 1â€“27. https://doi.org/10.1080/19315260.2025.2533959 2.
- Ankomah Boamah, F., Abdulai, M., Adomako, J., Utku, Y., Asante, S., Gyasi Santo, K. and Larbi Koranteng, S. (2025). Morphological and molecular characterization of Colletotrichum species causing brown leaf spot disease of cassava (Manihot esculenta Crantz) in Ghana. Indian Phytopathology. https://doi.org/10.1007/s42360-025-00872-z 3.
- Novor, S., Santo, K. G., Abdul, K. A., Owusu-Kwarteng, J., Atakora, K., & Eyahanyo, F. (2025). Evaluating fertilizer effects on growth, yield, and nutritional value of tiger nut (Cyperus esculentus L.) in Ghana. Australian Journal of Crop Science. 19(03):225-235. https://doi.org/10.21475/ajcs.25.19.03.p202 4.
- Atakora, K., Nti, F. and Gyasi Santo, K. (2025). Soil physico-chemical properties, growth, root yield and qualities of two varieties of carrot (Daucus carota L.) as affected by organic and inorganic fertilizers, Journal of Plant Nutrition, DOI: 10.1080/01904167.2025.2477820 5.
- Akyenah, A.A., Debrah, S.K., Asomah, S., Adjei, R. R., Gyasi Santo, K. and Anankware, J. P. (2025). Efficacy of three botanical powders and their combination against Sitophilus zeamais Motschulsky (Coleoptera: Curculionidae) in maize grain storage. International Journal of Tropical Insect Science. https://doi.org/10.1007/s42690-025-01464-0 6.
- Osei, R., Gyasi Santo, K., Martey, A. and Takyi, I. (2025). Integrated effects of NPK fertilizer and spent mushroom substrate on lettuce growth, yield and antioxidant enzyme activity. Asian Journal of Agricultural and Horticultural Research, vol. 12, no. 2, pp. 24-33. 7.
- Kombat, R. K., Gyasi Santo, K., Atakora, K. and Khalid, A. A. (2024). Cowpea (Vigna unguiculata (L.) - maize (Zea mays L.) intercropping and fertilizer application affected maize yield and yield components in Guinea savannah agro-ecological zone of Ghana. Archives of Agronomy and Soil Science, 70:(1): 1â€“19. https://doi.org/10.1080/03650340.2024.2419969.
- Dennis, A. O., Gyasi Santo, K., Khalid, A. A., Atakora, K., Ntiamoah, D. A., Abdulai, M. and Adjei, E. (2024). Growth, yield and grain quality of cowpea

(Vigna unguiculata (L.) Walp.) and weed flora as affected by physical and chemical methods of weed control. Legume Science, pages 1-15. https://doi.org/10.1002/leg3.70010

SHADRACK KWAKU DEBRAH (Ph.D.)

Publications (for the year under review)

- Debrah, S. K., Anankware, J. P., Alemu, M., Asomah, S., Acur, A., Obeng-Ofori, D., & Roos, N. (2025). Report of success and challenges of farming Rhynchophorus phenicis F.(Coleoptera: Curculionidae) in Ghana. Journal of Insects as Food and Feed, 1(aop), 1-9.
- Debrah SK, Fraklin A, Anankware JP, Lukadi F, Asomah S, Eilenberg, J., Naana R, and Obeng-Ofori, D. (2025). Rhynchophorus phoenicis production: A comparative study of different rearing protocols. Entomologia Experimentalis et Applicata 00: 1–13. doi.org/10.1111/eea.13571
- Akyenah, A. A., Debrah, S. K., Asomah, S., Adjei, R. R., Santo, K. G., & Anankware, J. P. (2025). Efficacy of three botanical powders and their combination against Sitophilus zeamais Motschulsky (Coleoptera: Curculionidae) in maize grain storage. International Journal of Tropical Insect Science, 1-8.
- Anankware, J. P., Debrah, S. K., Asomah, S., Egonyu, J. P., Niassy, S., Fathiya, K., & Obeng-Ofori, D. (2025). Morphometrics, molecular, and reproductive parameters of Rhynchophorus morphotypes F. (Coleoptera: Curculionidae) in Ghana. International Journal of Tropical Insect Science, 1-11.
- Debrah, S.K., Anankware, J. P., Malinga, G. M., Asomah, S., and Obeng-Ofori, D. (2024). Variation in substrate nutritional composition and its effects on the growth, development, and nutrient composition of Rhynchophorus phoenicis (Fabricius) (Coleoptera: Curculionidae). Journal of Insects as Food and Feed, 1, 1-14.

JACOB PAARECHUGA ANANKWARE (Ph.D.)

Publications (for the year under review)

- Debrah, S. K., Anankware, J. P., Alemu, M., Asomah, S., Acur, A., Obeng-Ofori, D., & Roos, N. (2025). Report of success and challenges of farming Rhynchophorus phenicis F.(Coleoptera: Curculionidae) in Ghana. Journal of Insects as Food and Feed, 1(aop), 1-9.
- Debrah SK, Fraklin A, Anankware JP, Lukadi F, Asomah S, Eilenberg, J., Naana R, and Obeng-Ofori, D. (2025). Rhynchophorus phoenicis production: A comparative study of different rearing protocols. Entomologia Experimentalis et Applicata 00: 1–13. doi.org/10.1111/eea.13571
- Akyenah, A. A., Debrah, S. K., Asomah, S., Adjei, R. R., Santo, K. G., & Anankware, J. P. (2025). Efficacy of three botanical powders and their combination against Sitophilus zeamais Motschulsky (Coleoptera: Curculionidae) in maize grain storage. International Journal of Tropical Insect Science, 1-8.
- Anankware, J. P., Debrah, S. K., Asomah, S., Egonyu, J. P., Niassy, S., Fathiya, K., & Obeng-Ofori, D. (2025). Morphometrics, molecular, and reproductive parameters of Rhynchophorus morphotypes F. (Coleoptera: Curculionidae) in Ghana.

International Journal of Tropical Insect Science, 1-11.

- Debrah, S.K., Anankware, J. P., Malinga, G. M., Asomah, S., and Obeng-Ofori, D. (2024). Variation in substrate nutritional composition and its effects on the growth, development, and nutrient composition of Rhynchophorus phoenicis (Fabricius) (Coleoptera: Curculionidae). Journal of Insects as Food and Feed, 1, 1-14.

NOVOR SAMUEL (Ph.D.)

Publications (for the year under review)

- Yeboah, F. P., Gyasi Santo, K., Ntiamoah Afreh, D., Khalid, A. A., Atakora, K., Abdulai, M., Novor, S. and Osei, R. (2025). Response of sweet pepper (Capsicum annuum L.) to different levels of topping and mulching materials. International Journal of Vegetable Science, 1â"27. https://doi.org/10.1080/19315260.2025.2533959 2.
- Novor, S., Santo, K. G., Abdul, K. A., Owusu-Kwarteng, J., Atakora, K., & Eyahanyo, F. (2025). Evaluating fertilizer effects on growth, yield, and nutritional value of tiger nut (Cyperus esculentus L.) in Ghana. Australian Journal of Crop Science. 19(03):225-235. https://doi.org/10.21475/ajcs.25.19.03.p202 4.

ATAKORA KWABENA (Ph.D.)

Publications (for the year under review)

- Novor, S., Santo, K. G., Abdul, K. A., Owusu-Kwarteng, J., Atakora, K., & Eyahanyo, F. (2025). Evaluating fertilizer effects on growth, yield, and nutritional value of tiger nut (Cyperus esculentus L.) in Ghana. Australian Journal of Crop Science. 19(03):225-235. https://doi.org/10.21475/ajcs.25.19.03.p202 4.
- Atakora, K., Nti, F. and Gyasi Santo, K. (2025). Soil physico-chemical properties, growth, root yield and qualities of two varieties of carrot (Daucus carota L.) as affected by organic and inorganic fertilizers, Journal of Plant Nutrition, DOI: 10.1080/01904167.2025.2477820 5.

Dr. BENARD ATO HAGAN

LIST OF PUBLICATIONS- DAPH (for the year under review)

- Hagan, B.A., Musah, Y.N., Asumah, C. and Ofori, S.A. (2025). Ruminant foetal wastage in the Sunyani Municipality: a case of the Sunyani Slaughterhouse, Ghana. Ghana Journal of Agricultural Science, 59(2): 76-90.
- Ofori, S.A., Hagan, B.A., Hagan, J.K., Yabuku, A. and Tor, N.E.T. (2025). Morphometric traits as predictors of live bodyweight in Large White pigs of varying ages. Journal of Ghana Science Association, 23(1): 10-17.
- Asante, B., Adomako, K., Konlan, S.P., Hagan, B.A. and Olympio, O.S. (2025). Soyabean-meal as a substitute for fish-meal in broiler chicken diet on growth performance and carcass characteristics. Ghanaian Journal of Animal Science, 16(1): 26-35.
- Opoku, B., Osekre, E.A., Adomako, K., Hagan, B.A., Opit, G.P. and Bosomtwe, A. (2025). Evaluation of Zerofly Hermetic and Polypropylene bags for preserving

maize for improved layer production in Ghana. African Journal of Food, Agriculture, Nutrition and Development, 25(3): 26141-26162.

- Dunga, G.T., Adomako, K., Hagan, B.A., Hamidu, J.A. and Olympio, O.S. (2025). The effects of naked neck and frizzle genes on the fertility, hatchability, egg quality and pterylosis of locally developed commercial parent lines. Tropical Animal Health and Production, 57: 86.
- Kanasuah, D.N., Adomako, K., Hagan, B.A. and Olympio, O.S. (2025). Influence of feather genotype, storage duration and temperature on the external and internal qualities of chicken table eggs. Online Journal of Animal and Feed Research, 15(1): 21-32.
- Ofori, S.A., Hagan, J.K., Teye, M., Hagan, B.A. and Etim, N.N. (2024). Response of two broiler genotypes to diets with varying levels of inclusion of palm kernel oil residue (PKOR). Ghanaian Journal of Animal Science, 15: 1-17.

WORKSHOPS/CONFERENCES/PUBLIC LECTURES

- Asumah, C., Hagan, B.A. and Adomako, K. (2025). Effect of sex on the growth characteristics of Pekin ducks raised in Ghana. Third Pan-African Poultry Conference held on September 22nd – 23rd at the University of Pretoria, South Africa. Pp. 47.
- Hagan, B.A., Garwey, R.A., Asumah, C., Opata, E., Ametepe, C. and Bekoe, E.S. (2025). Relationship between body weight and linear body measurements of West African Dwarf sheep kept under different production seasons. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 1-5, 2025.
- Opata, E., Hagan, B.A., Asumah, C. and Ametepe, C. (2025). Phenotypic characterization of indigenous goats in Dormaa Central Municipality of Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 1-5, 2025.
- Hagan, B.A., Ametepe, C., Asumah, C. and Opata, E. (2025). Phenotypic characterization of indigenous sheep in Dormaa Central Municipality of Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 1-5, 2025.
- Agyemang, H., Hagan, B.A. and Asumah, C. (2025). Factors influencing the choice of agricultural specialization options among students of the University of Energy and Natural Resources, Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 1-5, 2025.
- Agyeiwaa, B., Hagan, B.A. and Asumah, C. (2025). Ownership of companion animals among residents of Dormaa Central Municipality in the Bono Region of Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 1-5, 2025.
- Lamptey, V.K., Hagan, J.K., Hagan, B.A., Poku-Awuku, A., Bortieh, B.B. and Kruenti, F. (2025). Rabbit farming: the prospects, challenges and demographic profile of farmers in selected regions of Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 1-5, 2025.

- Abstract: Quaye, B., Hamidu, J. A., Adjei-Mensah, B., Donkoh, A., Idan, F., Opoku, O., and Atuahene, C. C. Nutritional value of processed sorghum grain varieties for full utilization as broiler feed ingredient. Submitted and Accepted To; Proceedings of the 3rd Joint GSAP-GASA Conference, 2025. KNUST- Kumasi, Ghana. Date: 15th-19th September, 2025
- Konlan, S.P., Hagan, B.A., Akufo, N.A. and Mogre, J.W.S. (2025). Integration of improved forage species into mixed farming systems to enhance feed availability and mitigation climate change for sustainable productivity in northern Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Nartey, M.A., Sena, R.A., Asiedu, P., Hagan, B.A. and Quaye, B. (2025). Assessing the knowledge, attitudes and practices of veterinary and public health workers on Rabies in Sunyani West. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Nartey, M.A., Suleman, A.L., Asiedu, P., Asumah, C. and Hagan, B.A. (2025). Prevalence and patterns of antibiotic resistence of E. coli in companion animals in Northern Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Nartey, M.A., Antwi, E.K., Hagan, B.A., Asiedu, P., Quaye, B. and Yeboah, E.D. (2025). Assessing consumer preference for egg quality in commercially available table eggs among Dormaa Districts. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Asiedu, P., Mohammed, M.A., Nartey, M.A., Hagan, B.A. and Yeboah, E.D. (2025). Effect of housing on growth and reproductive performance of rabbits – a systematic and bibliometric review. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Lamptey, V.K., Hagan, J.K., Hagan, B.A., Poku-Awuku, A., Bortieh, B.B. and Kruenti, F. (2025). Rabbit farming: the prospects, cahllenges and demographic profile of farmers in selected regions of Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.

MR. BERNARD QUAYE

- 3rd KNUST national hatchery workshop (in collaboration with WIPVAC) - IDL conference centre, KNUST (may 06-10, 2024). Theme: "building capacity of local hatcheries to support women and smallholder farmers success".
- May 15, 2024 - 4th cs4rra webinar- climate services for risk reduction- in Africa, 2023-2024 webinar forum in west Africa - IDL conference Centre, KNUST (theme: "climate-smart agriculture and sustainable landscapes")
- May 03, 2024 - workshop for postgraduate students (training on bibliometric analysis and systematic review-DAPH) - Okuafo Pa, UENR

- Mar. 21-22, 2024 - GRASAG research clinic and conference - GRASAG., KNUST-KSB
- 11th september, 2024- workshop for postgraduate students- under the intensive school 2nd edition (training on bibliometric analysis and systematic review-DAPH) - okuafo pa, Uenr- Department of Animal Production and Health.
- 18TH OCTOBER, 2024- WORKSHOP ON HOW TO WRITE A SYSTEMATIC REVIEW by Dr. Benjamin Adjei Mensah- DEPARTMENT OF ANIMAL SCIENCE, KNUST- Moderator.
- GSDF- Ghana Skills Development Fund Seminar with Stakeholders in the Poultry industry for validation of training curriculum- Department of Animal Science, KNUST- Facilitator – 29TH OCTOBER, 2024
- POULTRY Seminar- "Solutions for Boosting Egg Sizes and Feeding Strategies to Eliminate Fatty Livers in Layers"- De Heus Gh. Ltd. – Golden Bean Hotel, Kumasi – 30th OCTOBER, 2024
- GSDF- Ghana Skills Development Fund Seminar with Dormaa East Poultry Farmers Association (Wamfie), Department of Animal Production and Health, UENR- Facilitator – 4th & 5th March/7th & 14th August, 2025
- Academic workshops (Research Essentials, Writing Skills, Critical Thinking, Proposal Development, Presentation Skills, and Sustainability Analysis) with Dr. Ebenzer Kwofie, Assistant Professor from McGill University under the Carnegie African Diaspora Fellowship program – DAPH-UENR, Okuafo Pa - 31st May - 16th June, 2025.
- Agro-EcoFarm Training Programme- UENR, RCEES Auditorium, Sunyani- 3rd & 4th July, 2025.
- Poultry Business Clinic- Dormaa Business Resource Centre (BRC) in collaboration with the Dormaa Poultry Farmers Association (DoPFA), Dormaa Central Municipal Assembly (DCMA). -13-14th August, 2025.
- 3rd Joint GSAP/GASA Conference held on 15th-19th September, 2025 at the Amono Neizer Conference Center, KNUST-Kumasi. Theme: The role of animal agriculture in national development in an era of artificial intelligence. (Awarded best postgraduate scientific paper presentation).

MR. ERNEST DARKWAH YEBOAH

- Asiedu, P., Guonono, M., Nartey, M.A, Yeboah, E.D., Nyorku, J.1, and Osei, D.Y. (202.5). Profitability and Marketing Channels of Rabbit Farming in Ejisu Municipal, Ashanti Region, Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025.
- Asiedu, P., Andoh, S., Yeboah, E.D., Okyere, D.K., Manner, P., Otwey, C. and Boateng, D. (2025). Effect of Processing Conditions on the Dietary Potentials Of Washed And Unwashed Seaweed As Feed For Livestock. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025
- P. Asiedu, S. Afoako, E. D. Yeboah, D.Y Osei , C. Otwey , and E. K Adu (2025). The Potential for Replacing Fish Meal With Hatchery Waste Meal (Dead-In-Shell) In Growing Rabbits. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah

University of Science and Technology, September 14-19, 2025.

- E. D. Yeboah, T. Adogla-Bessa , G. N. Q. Ayorkor , R. Yeboah and F. O. Sarkwa. (2025). Effects of supplementation of sole and combined browse leaves on in vitro digestibility of rice straw. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025.

DR. MOSES ADDO NARTEY

- Nartey, M.A., Suleman, A.L, Asiedu, P., and Quaye, B. (2025). Prevalence And Patterns of Antibiotic Resistance of E. Coli in Companion Animals in Northern Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025
- Nartey, M.A., Sena, R.A., Asiedu, P., and Quaye, B. (2025). Assessing the Knowledge, Attitudes and Practices of Veterinary and Public Health Workers on Rabies in Sunyani West. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025
- Nartey, M.A., Antwi, E.K., Asiedu, P., Quaye, B. And Darkwah, E.Y. (2025). Assessing Consumer' Preference for Egg Quality in Commercially available. Eggs among Dormaa Districts. 3rd Joint GSAP/GASA Conference at Kwame

DR. PETER ASIEDU

- Asiedu, P., Mohammed, M.A., Nartey, M.A., Hagan, B.A. and Yeboah, E.D. (2025). Effect Of Housing on Growth and Reproductive Performance of Rabbits, a Systematic and Bibliometric Review. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025
- Asiedu, P., Guonono, M., Nartey, M.A, Yeboah, E.D., Nyorku, J.1, and Osei, D.Y. (202.5). Profitability and Marketing Channels of Rabbit Farming in Ejisu Municipal, Ashanti Region, Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025.
- Asiedu, P., Yeboah, E.D., Nyorku, J., Guonono, M., Nartey, M.A. and Otwey, C. (2025). Challenges to Small Ruminant Production in Tano North Municipal, Ghana. University of Energy and Natural Resources, P.O. Box 214 Sunyani, Dormaa Campus
- P. Asiedu, S. Afoako, E. D. Yeboah, D.Y Osei , C. Otwey , and E. K Adu (2025). The Potential For Replacing Fish Meal With Hatchery Waste Meal (Dead-In-Shell) In Growing Rabbits. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025.
- Asiedu, P., Andoh, S., Yeboah, E.D., Okyere, D.K., Manner, P., Otwey, C. and Boateng, D. (2025). Effect Of Processing Conditions On the Dietary Potentials Of Washed And Unwashed Seaweed As Feed For Livestock. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025.
- Nartey, M.A., Antwi, E.K., Asiedu, P., Quaye, B. And Darkwah, E.Y. (2025). Assessing Consumer' Preference for Egg Quality in Commercially available. Eggs among Dormaa Districts. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025

- Nartey, M.A., Suleman, A.L, Asiedu, P., and Quaye, B. (2025). Prevalence And Patterns of Antibiotic Resistance of E. Coli in Companion Animals in Northern Ghana. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025
- Nartey, M.A., Sena, R.A., Asiedu, P., and Quaye, B. (2025). Assessing the Knowledge, Attitudes and Practices of Veterinary and Public Health Workers on Rabies in Sunyani West. 3rd Joint GSAP/GASA Conference at Kwame Nkrumah University of Science and Technology, September 14-19, 2025

MR. CHRISTIAN ASUMAH

- Asumah, C., Hagan, B.A. and Adomako, K. (2025). Effect of sex on the growth characteristics of Pekin ducks raised in Ghana. Third Pan-African Poultry Conference held on September 22nd – 23rd at the University of Pretoria, South Africa. Pp. 47.
- Hagan, B.A., Ametepe, C., Asumah, C. and Opata, E. (2025). Phenotypic characterization of indigenous sheep in Dormaa Central Municipality of Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Hagan, B.A., Garwey, R.A., Asumah, C., Opata, E., Ametepe, C. and Bekoe, E.S. (2025). Phenotypic characterization of indigenous sheep in Dormaa Central Municipality of Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Opata, E., Hagan, B.A., Asumah, C. and Ametepe, C. (2025). Phenotypic characterization of indigenous goats in Dormaa Central Municipality of Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.
- Agyeiwaa, B., Hagan, B.A. and Asumah, C. (2025). Ownership of companion animals among residents of Dormaa Central Municipality in the Bono region of Ghana. Proceedings of the 3rd Joint Biennial Conference of GSAP and GASA. Kwame Nkrumah University of Science and Technology, Ghana, September 15-19, 2025.

MR. BERNARD QUAYE

- Abstract: Opoku, O., Hamidu, J. A., Adjei-Mensah, B., Quaye, B., Sasu, P., Benante, V., Amankrah, M. A., Donkoh, A. and Atuahene, C. C. (2024). Industrial Wastes as Substrates for Black Soldier Fly (Hermetia illucens) Larvae Production: Influence on Growth, Proximate Chemical and Mineral Composition. In; Proceedings of the Global Conference on Waste Management and Recycling, Berlin-Germany. Date: 15-17th March, 2024. www.steconf.org/ info@steconf.org.
- Osei-Adjei, A., Hamidu, J. A., Adjei-Mensah, B., Quaye, B., Oduro-Owusu, A. D., Atimah, G. K. and Donkoh, A. (2025). The need and acceptability of cassava starch residue as an alternative energy source in poultry feeds: Farmers and consumers perspectives in the Ashanti Region of Ghana. European Journal of Agriculture and Food Sciences, 7(3), 32-41. ISSN 2684-1827. https://doi.org/10.24018/

ejfood.2025.7.3.910.

- Abstract: Quaye, B., Hamidu, J. A., Adjei-Mensah, B., Donkoh, A., Idan, F., Opoku, O., and Atuahene, C. C. (2025). Nutritional value of processed sorghum grain varieties for full utilization as broiler feed ingredient. Submitted and Accepted To; Proceedings of the 3rd Joint GSAP-GASA Conference, 2025. KNUST- Kumasi, Ghana. Date: 15th-19th September, 2025.

DR. MOSES ADDO NARTEY

- Adjibolosoo, D., Nartey, M. A., Aboagye, E. T., Danso, B., Fatima, I., Hua, J., & Guo, A. (2024). Genome-wide studies and expression profiling of GhWRKY41 family genes in different tissues and stress conditions in upland cotton (Gossypium hirsutum). Industrial Crops and Products, 215, 118486. https://doi.org/10.1016/j.indcrop.2024.118486

- Dakwa, K.B., Bempah, G., Messenger, K.R. and Nartey, M.A. (2024). Preliminary Trend Analysis of International Wildlife Trade in Ghana in Relation to Global Zoonotic Disease Outbreaks. Human Ecology. . https://doi.org/10.1007/s10745-024-00540-2

DR PETER ASIEDU

- Kwame A. Darfour-Oduro, Peter Asiedu, Clement A. Adonbire, Shadrach Norvinyo, and Edward Koomson (2024). Quantifying the influence of heat stress on the conception rate of Ghana Sanga cows. Tropical. Agriculture. (Trinidad). Vol 101 No. 4 October 2024
- Gifty Ziema Bumbie, Leonardo Abormegah, Peter Asiedu, Akua Durowaa Oduro-Owusu, Achiamaa Asafu-Adjaye Koranteng, Kwabena Owusu Ansah, Vida Korkor Lamptey, Chen Chen,Taha Mohamed Mohamed and Zhiru Tang (2024). Influence of Pediococcus pentosaceus GT001 on Performance, Meat Quality, Immune Function, Antioxidant and Cecum Microbial in Broiler Chickens Challenged by Salmonella typhimurium. Animals 2024, 14, 1676. https://doi.org/10.3390/ani1411167
- DY Osei, P Asiedu, FO Sarkwa, EC Timpong-Jones and D Amedorme1 (2024). Spleen Indices of Mixed Breed Rabbits Fed Graded Levels of some Common Forages in the Coastal Savannah Ecological Zone of Ghana. Acta Scientific Veterinary Sciences (ISSN: 2582-3183) Volume 6 Issue 3 March 2024.

1. MR. CHRISTIAN ASUMAH

Book of abstracts

- Asumah, C., Hagan, B. A. and Adomako, K. (2025). Effect of sex on the growth characteristics of Pekin ducks raised in Ghana. 3rd Pan-African Poultry Conference held on September 22nd–23rd at the University of Pretoria, South Africa. Pp 47.
- Kpegah, D., Adomako, K., Sogbe, M., Kaku, P., Nurideen, A., Enyan, P. and Asumah, C. (2025). Effect of chronic heat stress on growth performance, carcass characteristics and haematological indices in broilers. 3rd Pan-African Poultry

Conference held on September 22nd–23rd at the University of Pretoria, South Africa. Pp 45.

- Adomako, K., Agyemang, R. O., Amevor, S. K., Ashong, C. A., Antwi, K. O., Kyei, B., Kpegah, D. and Asumah, C. (2025). Effects of strain, storage temperature, and storage duration on proximate and mineral compositions and internal and external qualities of table eggs. 3rd Pan-African Poultry Conference held on September 22nd–23rd at the University of Pretoria, South Africa. Pp 48.

Published Articles

- Hagan, B. A., Musah, Y. N., Asumah, C. & Ofori, S. A. (2025). Ruminant foetal wastage in the Sunyani Municipality: A case of the Sunyani Slaughterhouse, Ghana. Ghana Journal of Agricultural Sciences.

PROF. JOHN K. M. KUWORNU

ACADEMIC QUALIFICATIONS

- PhD, Social Science (Agricultural Economics & Marketing), Wageningen University, The Netherlands
- MSc, Agricultural Economics & Management, Wageningen University, The Netherlands
- MA, Ministry, Trinity Theological Seminary, Accra, Ghana
- BA, Economics with Political Science, University of Ghana, Legon, Ghana

RESEARCH PUBLICATIONS

Martey, E. Kuwornu, J.K.M., Kemeze, F.H, Etwire, P.M., Apiors, E.K. and Mirand, M.J. (2025). Non-cognitive skills and willingness to participate in drought index crop insurance in Ghana. Climate and Development, 1-14.

Martey, E. Kuwornu, J.K.M., Etwire, P.M., and Suraj, M.M. (2025). Aspirations and Investments in Agricultural Risk Mitigation Strategies. Review of Development Economics

Martey, E., Etwire, P.M., Ankrah, D.A. and Kuwornu, J.K.M. (2025). Rural–urban analysis of parental time poverty and child over-nutrition in ghana. Journal of Development Effectiveness 17 (2), 206-230.

Suraj, M.M., Martey, E. Kuwornu, J.K.M, Apiors, E.K., Kemeze, F.H. and Etwire, P.M. (2025). Membership of water user association and implications for food security. Journal of Agriculture and Food Research 20, 101739.

Martey, E. Kuwornu, J.K.M, Etwire, P.M., Apiors, E.K. Kyire, S.K.C and Izideen, P.M.M (2025). Does participation in on-farm demonstrations improve aspirations formation and food security? Evidence from Ghana. Food Security 17 (1), 127-144

Kyire, S.K.C, Bannor, R.K., Kuwornu, J.K.M and Oppong-Kyeremeh, H. (2025). Credit access and intensity of borrowing by irrigated rice farmers in Ghana: the role of extension services. Journal of Agribusiness in Developing and Emerging Economies 15 (2), 249-268.

Ho, T. D. N., Tsusaka, T. W., Kuwornu, J. K. M., Lam, L. M. T., TT Vu, T. T. (2024). Does livelihood capital influence the livelihood diversification strategies of smallholder rice farmers? Evidence from the Mekong Delta of Vietnam, Cogent Economics & Finance 12 (1), 2397456. https://doi.org/10.1080/23322039.2024.2397456

Martey, E., Etwire, P.M., Kuwornu, J.K.M. and Suraj, M.M. (2024). Micro-level welfare effects of integrated soil fertility management in Northern Ghana. Journal of Cleaner Production 482, 144224

Martey, E., Etwire, P.M., Ankrah, D.A. and Kuwornu, J.K.M. (2024). Rural–urban analysis of parental time poverty and child over-nutrition in Ghana. Journal of Development Effectiveness, 1-25

CONFERENCES/WOKSHOPS/SEMINARS:

- Impact of bundling supplemental irrigation and drought index crop insurance on welfare of smallholder farmers in Northern Ghana. 7th Annual Conference of the Ghana Association of Agricultural Economists, 2nd – 5th October 2024, University for Development Studies, Tamale, Ghana.

- Data driven and precision agriculture for inclusive value chain development in Africa. Moderator, 7th Annual Conference of the Ghana Association of Agricultural Economists, 2nd – 5th October 2024, University for Development Studies, Tamale, Ghana.

- Flipping the Traditional Model of Research Collaboration to Close the Evidence to Policy Gap (the ALL-IN Model). Panel Discussant, 7th Evidence to Action Conference, July 22nd – 26th, 2024, ISSER Auditorium, University of Ghana, Legon, Accra, Ghana.

- Impact of bundling supplemental irrigation and drought index crop insurance on welfare of smallholder farmers in Northern Ghana. , 7th Evidence to Action Conference, July 22nd – 26th, 2024, ISSER Auditorium, University of Ghana, Legon, Accra, Ghana.

- Climate Change Adaption Investments in Africa: The role of State and Non-State Institutions. The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Triennial Conference, 12th – 16th August 2024, Namibia.

- Capacity building workshop on Curriculum Development in Agroecology and

Food systems, Agroecological Farming Master Programme for a Sustainable Agriculture in West Africa –AGRECOFARM, 22nd – 23rd July 2024, The University for Continuing Education, Krems, Austria.

- Capacity building workshop on Curriculum Development in Agroecology and Food systems, Agroecological Farming Master Programme for a Sustainable Agriculture in West Africa –AGRECOFARM, ISARA Agro School for Life, Lyone Campus, 25th – 26th July 2024, Lyone, France.

- Impact of bundling supplemental irrigation and drought index crop insurance on welfare of smallholder farmers in Northern Ghana. Technical Meeting of the Feed the Future Innovation Lab for Markets, Risk & Resilience (MRR), 30th – 31st May 2024, Washington DC, USA.

- Climate Change Adaption Investments in Africa: The role of State and Non-State Institutions. Public Lecture, 15th December 2023, Bank of Ghana Auditorium, University of Energy and Natural Resources, Sunyani.

- Investment in adaptation to climate change in Africa: The role of governmental and non-governmental institutions, and other stakeholders. ActionAid Conference, Mensvic Grand Hotel Accra, October 17, 2023.

- Non-cognitive skills and Willingness to Participate in Drought Index Crop Insurance in Ghana, 6th Evidence to Action Conference, July 24 – 28, 2023, Ethiopian Economics Association Main Auditorium, Addis Ababa, Ethiopia.

DR TEKUNI NAKUJA

RESEARCH INTERESTS/ACTIVITIES

1. International Trade
2. Food security
3. Agricultural Policy

ACADEMIC QUALIFICATIONS

» PhD/MSc (Agricultural Economics), USASK - Canada
» M.Phil. (Agricultural Economics), UG-Ghana
» B.Sc. Agriculture, UG-Ghana

RESEARCH PUBLICATIONS :

1. Zumanye, E., Mensah, N.O., Udimal, T. B., Nakuja, T., Anang, S. A., and Yenibehit, N. (2025) 'Determinants of motives for keeping small ruminants: Evidence from the Northern Ghana' Small Ruminant Research, 246 (2025) 107476.
2. Anang, S. A., Otchere-Peprah, K., Aidoo-Mensah, D., Mensah, N. O., Nakuja, T.,

Boateng-Gyambiby, D. (2024) 'Livelihood diversification and coping strategies: evidence from small-scale fish farmers in Ghana' Cogent Social Sciences, 10(1), 2433712, https://doi.org/10.1080/23311886.2024.2433712

3. Agyapong, S., Mensah, N.O., Anang, S.A., Nakuja, T., Osei-Tutu, F. (2024). Impact of village savings and loans associations participation on cocoa farmers' livelihood in the Western North Region, Ghana, Journal of Agriculture and Food Research, 2024, 18, 101356.
4. Mensah, N. O., Addo, S., Sumbayi, S. D., Nakuja, T., and Anang, S.A, (2024). Determinants of charcoal production and marketing in the Mankranso forest district in the Ashanti region of Ghana. Heliyon, 10(1), 1-13.

OUTREACH PROGRAMMES/EXTENSION SERVICES

1. Participant: 7th Annual Conference of Ghana Association of Agricultural Economists (GAAE), University for Development Studies (UDS), Oct. 2-5, 2024.

DR. SAMUEL AFOTEY ANANG

RESEARCH INTERESTS/ACTIVITIES

- Agriculture cooperative societies in food production
- Livelihoods and Rural Development.
- Precision Agriculture and food security
- Sustainable Agriculture
- Gender issues and empowerment
- Poverty Reduction research
- Agriculture and Financial Literacy
- Sustainable natural resources management
- Rural small-scale Agricultural industries

ACADEMIC QUALIFICATIONS

- PhD (Agricultural Economics and Management), SCAU-China
- M.Phil. (Agricultural Extension), UG-Ghana
- B.Sc. (Hons.) Agriculture, UG-Ghana

RESEARCH PUBLICATIONS :

1. Zumanye, E., Mensah, N.O., Udimal, T. B., Nakuja, T., Anang, S. A., and Yenibehit, N. (2025) 'Determinants of motives for keeping small ruminants: Evidence from the Northern Ghana' Small Ruminant Research, 246 (2025) 107476.
2. Anang, S. A., Otchere-Peprah, K., Aidoo-Mensah, D., Mensah, N. O., Nakuja, T., Boateng-Gyambiby, D. (2024) 'Livelihood diversification and coping strategies: evidence from small-scale fish farmers in Ghana' Cogent Social Sciences, 10(1), 2433712, https://doi.org/10.1080/23311886.2024.2433712
3. Agyapong, S., Mensah, N.O., Anang, S.A., Nakuja, T., Osei-Tutu, F. (2024). Impact of village savings and loans associations participation on cocoa farmers' livelihood

in the Western North Region, Ghana, Journal of Agriculture and Food Research, 2024, 18, 101356.
4. Anang, S.A. and Anning, A. (2024). Profitability and market analysis of the piggery industry in the Prestea/Huni-Valley Municipality of Western Region, Ghana. International Journal of Entrepreneurship and Small Business, 51(2), 238-256.
5. Mensah, N. O., Addo, S., Sumbayi, S. D., Nakuja, T., and Anang, S.A, (2024). Determinants of charcoal production and marketing in the Mankranso forest district in the Ashanti region of Ghana. Heliyon, 10(1), 1-13

OUTREACH PROGRAMMES/EXTENSION SERVICES

- Member, Academic Board UENR, 08/24- Date
- HoD, Department of Agricultural and Resource Economics, 01/23-07/24
- Member, School of Agriculture Board, 01/23-07/24
- Member, School of Agriculture Appointment and Promotion Committee (SAPC-SOAT), 01/23-07/24
- Member, Research and Grants committee of the Department of the Agricultural Economics, Agribusiness and Extension, 10/21- Date
- Chairman of Committee to develop Agricultural Extension Programmes, 07/21-Date

CONFERENCES/WOKSHOPS/SEMINARS:

1. Participant: Using Open Access Research Solutions to Improve the Academic Lifecycle for the Academic Community Library, University of Energy and Natural Resources, (UENR), Jan. 24, 2025.
2. Participant: Staff Training and Development Programme, Human Resource Division, University of Energy and Natural Resources, (UENR), Mar. 26-28, 2025
3. Participant: "How to Write a Paper and Get It Published", Centre for Professional Development (CEPDEV), University of Energy and Natural Resources, (UENR), Mar. 5, 2025.
4. Participant: UTAG Workshop on Promotions, UENR-UTAG, Sunyani, May 21-22, 2024.
5. Participant: 7th Annual Conference of Ghana Association of Agricultural Economists (GAAE), University for Development Studies (UDS), Oct. 2-5, 2024.

DR. BISMARK AMFO

Research Publication

Amfo, B., Abankwah, V. and Tanko, M. (2025). Financial credit and cocoa productivity-enhancement agronomic practices in Ghana. Scientific African, 28, e02691. https://doi.org/10.1016/j.sciaf.2025.e02691

Amfo, B., Bannor, R.K., Boateng, A.O. and Oppong-Kyeremeh, H. (2024). Consumer satisfaction and preferences for enhanced chicken egg attributes in Ghana: an application of extended theory of reasoned action and means-end theory. Cogent Food and Agriculture, 10(1): 2340156, https://doi.org/10.1080/23311932.2024.2340156

DR LESLEY HOPE

RESEARCH INTERESTS/ACTIVITIES

1. Rural and agricultural development
2. Gender
3. Food security

ACADEMIC QUALIFICATIONS

PhD International Development Studies – Ruhr University Bochum, Germany
MSc Agricultural Economics – Kwame Nkrumah University of Science and Technology
BSc. Agriculture – Kwame Nkrumah University of Science and Technology

Publications (for the year under review)
Balasubramanya, S., Garrick, D., 3, Brozović N, Ringler, C.… and Hope L. 2024. Risks from solar-powered groundwater irrigation. Agriculture and Enviroment , Policy Forum, Science volume 383 Issue 6680.
Hope L, Nchanji E, Dagoudo BA, Jeiyol E,Nyamolo V & Adhekegba OD (2025) African Food Systems Transformation Brief 02:Gender and Women in Agroecological Transition. African Food Systems Transformation Collective. Cape Town, South Africa.
Community Engagements
Examinations officer from January 2025 to December 2025
Conference /Workshop and Seminar
Presenter: Tropentag 2025 Hybrid Conference 2025/09/10 to 12th September 2025/09/12, University of Bonn/ZEF, Germany.

DR. BOAHEN ATA OPPONG

Oppong, B. A., Onumah, E., E., Al-Hassan, R. M. & Mensah-Bonsu, A. (2021) Impact of Crop Productivity on Poverty among Farm Households in Ghana. Acta Economica Vol. 19, No.35 DOI: https://doi.org/10.7251/ACE2135077A

DR DANIEL AIDOO-MENSAH

1. Research collaborations (local and international)
   (a) The Nexus between Financial Vulnerability and Economic Well-Being of Farm Households: Evidence from Ghana
   (b) Assessment of Risk Perception and Occurrence among Tomato Farmers in Ghana
   (c) Assessment of Financial literacy and its implications for rural households' livelihood: a case study of tomato farmers in Ghana
   (d) Extension pluralism and its implications for extension delivery in Ghana.
   (e) Financial Literacy and Credit access among Maize Aggregators in the Bono and Bono East Regions of Ghana

2. Reviewer: Journal of Agricultural Science, African Research Reports, Frontiers in Environmental Science, Journal of Agriculture and Food Research

DR. DOMINIC BOATENG-GYAMBIBY
PUBLICATIONS:

Bontogho, T. P. E., Ireson, A., Boateng-Gyambiby, D., & Dini, A. (2025). Predicting Standardised Precipitation Evapotranspiration Index for Fada N'Gourma by 2025 using CMPI-6 outputs under SSPs scenarios. Journal of Environmental Science and Engineering A, 14(1), 31-42. https://doi.org/10.17265/2162-

CONFERENCES/WOKSHOPS/SEMINARS:

1. Tropentag 2025 Hybrid Conference 2025/09/10 to 12th September 2025/09/12, University of Bonn/ZEF, Germany.
2. Agri-food, and Rural Advisory, Extensuion and Education Conference, 29th October 2025 to 31st October 2025, University of Guelph, Ontario, Canada.
3. Training on Leadership Essentials by Edwards School of Business, Executive Education, University of Saskatchewan (2025/09/12 to 2025/09/12)
4. Training on Digital Agriculture Fundamentals for Western Canada by agTech Palette Skills, (2025/09/15 to 2025/11/07)

RESEARCH COLLABORATIONS AND VISITS (LOCAL AND INTERNATIONAL):

1. Queen Elizabeth Advanced Scholar research collaboration on a three-year (April 2021 – December 2025) project titled "Water Security to Promote Gender Equity and Climate-Change Resilience in West Africa" at the University of Saskatchewan and funded by the Canadian Queen Elizabeth II Diamond Jubilee Scholarships for Advanced Scholars Program (QES-AS West Africa).
2. Visiting Scholar to University of Saskatchewan, Canada.

GRANTS AND AWARDS:

1. Award received - The Canadian Queen Elizabeth II Diamond Jubilee Scholarships for Advanced Scholars Program (QES-AS-West Africa).

DR PATRICK MUOTONO IZIDEEN MAANIKUU

E Martey, JKM Kuwornu, PM Etwire, EK Apiors, SKC Kyire, PMM Izideen (2025). Does participation in on-farm demonstrations improve aspirations formation and food security? Evidence from Ghana. Food Security 17 (1), 127-144

PROF. JAMES OWUSU KWARTENG

Publications (for the year under review)

1. Ibrahim, I.; Tengey, P., Lawrence, K.M., Ayariga, J.A., Akabanda, F., Aduve, G.Y., Xu, J., Boakai, R.K., Ajayi, O.S., Owusu-Kwarteng, J. (2025). Development and

evaluation of a solar milk pasteurizer for the savanna ecological zones of West Africa. Solar 5, 38. https://doi.org/10.3390/solar5030038.
2. Amedor, E.N., Sarpong, F., Bordoh, P.K., Boateng, E.F., Owusu-Kwarteng, J. (2025). Impact of pretreatment and drying on the chemical composition and sensory quality of fried yam (Dioscorea rotundata) chips. Exploration of Foods Foodomics. 3, 101095. https://doi.org/10.37349/eff.2025.101095.
3. Wuni, A., Alemawor, F., Mills-Robertson, F. C., Boateng, E., F., Owusu-Kwarteng, J. (2025). Impact of traditional food processing techniques on mineral bioaccessibility in Ghanaian fermented millet-based koko and zoomkoom. Foods 14, 2126. https://doi.org/10.3390/foods14122126.
4. Novor, S., Santo, S., Khalid, A.A., Owusu-Kwarteng, J., Atakora, K., Eyahanyo, F. (2025). Evaluating fertilizer effects on growth, yield, and nutritional value of Tiger Nut (Cyperus esculentus L.) in Ghana. Australian Journal of Crop Science 19(03), 225-235. http://doi.org/ 10.21475/ajcs.25.19.03.p202.
5. Fordjour, D.K., Sarpong, F., Owusu-Kwarteng, J., Boateng, E.F. (2024). Drying kinetics and mathematical modeling of coconut meat slices: Insight into pretreatment and drying synergic effect. Heliyon 10, e39307. https://doi.org/10.1016/j.heliyon.2024.e39307
6. Amedor, E. A., Sarpong, F., Bordoh, P. K., Boateng, E. F., Owusu-Kwarteng, J. (2024). Modelling conventional oven drying characteristics and energy consumption of dehydrated yam (Dioscorea rotundata) chips. Heliyon 10, e34672.
7. Owusu-Kwarteng, J., Kehinde, B., Ohomeng-Boahen, G., Mantey, J. K. A., Decardi-Nelson, T., Agyei, D. (2024). The role of indigenous and traditional foods in achieving food security in Africa: A bibliometric snapshot and farm-to-fork perspective. Cabi Reviews 19(1), 22. https://doi.org/10.1079/cabireviews.2024.0022.
8. Adjei, R.R., Boateng, A.S., Owusu-Kwarteng, J. (2024). Self-reported knowledge and understanding of added sugars by consumers in Ghana. Heliyon 10:e31243. https://doi.org/10.1016/j.heliyon.2024.e31243.
9. Kailany, R., Presmont, Y., Zapata, R., Owusu-Kwarteng, J., Fedio, W. (2024). Validation of rapid detection methods for Salmonella enterica in Green Chile. Letters in Applied Microbiology 77, ovae011. https://doi.org/10.1093/lambio/ovae011.

SCHOOL OF GEOSCIENCES

SCHOOL OF GEOSCIENCES

Introduction (Establishment)

The School of Geosciences is a dynamic hub of innovative research and academic excellence, advancing knowledge across fields such as Climate Science, Environmental Planning, Geospatial and Geological Science. The school currently operates three (3) main academic departments, namely; Department of Atmospheric & Climate Science (DACS), Department of Geography and Sustainability Science (DGSS), and Department of Geospatial Sciences (DGS).

Through cutting-edge programmes and strategic industry partnerships, the school is committed to equipping students with critical skills to address complex global challenges, including climate resilience, natural resource management, and environmental health. Our faculty's impactful research and dedication to sustainable development play a pivotal role in preparing the next generation of scientists and leaders, positioning the school as a cornerstone for environmental advancement and sustainable growth.

Departments Under the School

Currently, the School has the following Departments:

» Department of Atmospheric and Climate Science (DACS)
» Department of Geospatial Science (DGS)
» Department of Geography and Sustainability Science (DGSS)

DEPARTMENT OF ATMOSPHERIC AND CLIMATE SCIENCE

Head of Department:	Dr. Caleb Mensah
Senior Administrative Assistant:	Ms. Madinatu Yahaya

The vision of the Department of Atmospheric and Climate Science (DACS) is to be recognized as a premier academic location for higher education and innovative research in tropical atmospheric and climate sciences within Africa and beyond. In achieving this status, the Department aims to promote advanced education of highly skilled manpower and conduct cutting-edge interdisciplinary research in atmospheric modelling, land-atmosphere interactions, atmospheric pollution, and climate sciences; promote the fundamental understanding and prediction of weather and climate change, and the identification of climate threats that directly affect humans and the terrestrial ecosystem; and develop and apply theories, concepts, methods and tools in climate change studies and research for awareness creation and climate change communication to the public.

DEPARTMENT OF GEOSPATIAL SCIENCE

Head of Department :	Surv. Ing. Dr. Peter Damoah-Afari
Junior Assistant Registrar :	Ms. Joyce Yeboah

DEPARTMENT OF GEOGRAPHY AND SUSTAINABILITY SCIENCE

Head of Department: Dr. Prisca Ama Anima
Senior Administrative Assistant: Ms. Darlintina Ntiwaa Ntow

The Department of Geography and Sustainability Science was established in the 2021/2022 academic year as one of the operational departments making up the School of Geosciences. Guided by the university's Act, ACT 830, and its mission and vision, the department generally aims at the provision of theoretical and practical training to effectively contribute to solving a variety of problems, which are spatial, environmental, developmental, and planning-oriented. Research and community engagements are done, ensuring that sustainability is at the core of proffered solutions. The Department runs a 4-year Bachelor of Science programme in Planning and Sustainability. It also runs a 2-year MPhil programme in Environmental Planning and Development. A 4-year Bachelor of Science programme in Geography and Environmental Studies is awaiting accreditation.

ACADEMIC PROGRAMMES UNDER EACH DEPARTMENT

Name of Department	Programmes
Department of Climate and Atmospheric Science	BSc. Climate Change and Sustainable Development (CCSD) BSc. Applied Meteorology and Climate Science (AMCS) MPhil Climate Change (CC) MSc. Climate Change (CC)
Department of Geospatial Science	Diploma in Geomatics Diploma in Geoinformation Science BSc Geomatics BSc Geoinformation Science BSc Geoenvironmental Science BSc Applied Geology (awaiting accreditation) MSc. / MPhil. in Geoinformation Science
Department of Geography and Sustainability Science	Bachelor of Science in Planning and Sustainability MPhil in Environmental Planning and Development Bachelor of Science in Geography and Environmental Studies (awaiting accreditation)

ADMINISTRATION OF THE SCHOOL

The following personnel constitutes the School's Administration:

Dr. Leslie Danquah	Acting Dean
Ms. Joyce Dogenereba	School Registrar
Ms. Farida Elorm Sekou	Senior Administrative Assistant

STAFF AND STUDENT STATISTICS

iii. Staff Statistics

S/N	Rank	Male	Female	Total
1.	Professor	1		1
2.	Assoc. Professors			
3.	Senior Lecturers	5	3	8
4.	Lecturer	5	0	5
	Adjunct Lecturer	1		1
	Part-time Lecturer	2	1	3
5.	Assistant Lecturer	1		1
6.	Assistant Research Fellow			
7.	Chief/Senior Research Assistants/ Technicians			
8.				
9.	Assistant Registrar			
	Junior Assistant Registrar	1	1	
10.	Principal/Senior Administrative Assistant		3	3
	Grand Total	15	9	24

iv. Students Statistics

S/N	Departments	Undergraduate	Postgraduate	Total
1.	**Department of Atmospheric and Climate Science**	**173**	**30**	**203**

2.	**Department of Geography and Sustainability Science**	**267**	**14**	**281**
3.	**Department of Geospatial Sciences**	**155**	**29**	**184**
	Grand Total	**595**	**73**	**668**

RESEARCH COLLABORATIONS/COMMUNITY ENGAGEMENT (LOCAL AND INTERNATIONAL) AND PUBLICATION OF STAFF

Department of Atmospheric and Climate Science

- DACS has collaborated with Lancaster University through the Seed Grant for New African Principal Investigators (SG-NAPI) under The World Academy of Sciences (TWAS) funding scheme to financially support two (2) MPhil students on our Climate Change programme conducting research within the "Biosphere-Atmosphere Interactions in the Tropics (BAIT): Understanding Climate-Forest Feedback Processes in West Africa" project.
- DACS, in collaboration with Nanjing University of Information Science and Technology (NUIST), China, has sponsored the PhD education of two (3) students who recently completed our MPhil Climate Change program and a Masters program for an undergraduate student who recently completed her Bachelor's degree.
- DACS is in collaboration with researchers from EORIC and other departments at UENR and TULLOW Oil Ghana to support research initiatives aimed at helping the company meet its commitment to achieving Net Zero by 2030 in Scope 1 and 2 GHG emissions on a net equity basis.
- DACS is still in collaboration with Lancaster University to continue measurements and to model biogenic volatile organic compounds (BVOC) as part of a project titled: Bugging our models: Incorporating novel BVOC emissions into a multi-layer canopy exchange model. As part of this partnership, three (3) key staff members visited Lancaster University to still find other areas of further collaboration.
- DACS in collaboration with the Tree Ring Laboratory of the Lamont-Doherty Earth Observatory, Columbia University (CU), US has won a research grant to carry out multidisciplinary research work on reconstructing the Climate of West Africa through dendrochronology measurements in Ghana and Senegal. The first workshop in Ghana will be held at UENR in January 2026.
- DACS is in collaboration with experts from various universities and research institutions, including the Clean Air Fund in Ghana, has won a proposal on air quality and management on "City-wide Air Dispersion Modelling for the Greater Accra Metropolitan Area (GAMA)" valued at US$200,000.
- DACS is collaborating with some experts on the Pan-African and transdisciplinary

lens on the margins: Tackling the risks of extreme events (PALM-TREES).

- DACS in collaboration with other research experts from the Department of Biological Sciences worked and completed a research project on archiving Phenological Datasets for Ecological Forecasting (PheDEF) which was valued at US$97,548 from the Lacuna Fund.

Workshops/Conferences/Public Lectures

- Research and Collaboration Networking Seminar "From Pollution to the Circular Bio-economy: An International Research Journey", September 23, 2025, UENR, Sunyani – Prof. Kirk Semple, Lancaster University, and Prof. Harry Dixon, Associate Director of International Research and Development, UKCEH.
- Department of Atmospheric and Climate Science, UENR-Green Africa Youth Organization (GAYO), Carbon Dioxide Removal (CDR) and Solar Radiation Management (SRM) Certificate Short Course, June 13-14, 2025, RCESS Conference Room, UENR.
- Phenology Dataset Workshop, organized by PheDEF Team, and Faculty of the ITC, University of Twente, July 17-18 2025, RCEES, UENR.
- Scientific workshop on the measurement of land-atmosphere fluxes, their interpretation with respect to ecosystem processes and their data-driven upscaling to global flux Estimates, organized by the Fluxcom-team at the Max-Planck-Institute for Biogeochemistry Jena, held in Hotel am Schlossberg, June 2-6, 2025, Germany.
- First Workshop of the African Climate Research Hub, organized by the Climate System Analysis Group and the African Climate Development Institute at the University of Cape Town, South Africa, May 8-10 2025.
- Research Visit for dataset preparation in the context of the Phenological Dataset for Ecological Forecasting (PheDEF) project and further collaboration, Geo-information Processing Department, May 6-11, 2025, Faculty of the ITC, University of Twente, Enschede, Netherlands.
- Staff Mobility on the ERASMUS+ International Credit Mobility (KA171) between the University of Energy and Natural Resources and the Slovak University of Technology, April 7-17, 2025, in Bratislava, Slovakia
- Department of Atmospheric and Climate Science, UENR/Earth Observation and Research Innovation Center, UENR, Lecture on Global Climate and Ecosystems. Prof. Michal V. Marek, Professor, Czech Globe, 3rd - 4th April 2025, Akuafo pa, UENR, Dormaa Campus.

UENR Delegation for further Joint Research Collaboration with Lancaster University, February 1-8, 2025, Lancaster Environment Centre, Lancaster

Proposals

- DACS in collaboration with WASCAL has put in a proposal entitled "Intra-Africa Academic Mobility Scheme" to [NDICI-2023-MOBAF] call.
- DACS and Lancaster Environmental Center (LEC), Lancaster University are working on a proposal for the establishment of a Centre of Excellence for Forest Research and Sustainable Entrepreneurship (WAfricaCEFoRCE)

Joint exchange programme development between DACS-UENR and Nord University, Norway, under the WeAdapt Project (2026), focusing on establishing staff and student mobility to enhance collaborative research and capacity building in climate adaptation and community resilience

Grant and Awards

Grant and Awards

SN	PROJECT TITLE	FUNDERS	PROJECT AMOUNT
1	Biosphere-Atmosphere Interaction in the Tropics (BAIT): Ozone Impacts on Tropical Forest Carbon Storage	Joy Welch Charitable Fund	£10,000.00
2	City-wide Air Dispersion Modelling for the Greater Accra Metropolitan Area (GAMA)	Clean Air Fund	US$200,000.00
3	Phenological Datasets for Ecological Forecasting (PheDEF)	Lacuna Fund	US$97,548.00

Funding of Research Activities

SN	PROJECT TITLE	FUNDERS	PROJECT AMOUNT
1	Pan-African and transdisciplinary lens on the margins: Tackling the risks of extreme events (PALM-TREES)	IDRC	CA$8,116,900.00
2	Biosphere-Atmosphere Interactions in the Tropics (BAIT): Understanding Climate-Forests Feedback Processes in West Africa	TWAS	US$50,000
3	Phenological Dataset for Ecological Forecasting (PheDEF)	Lacuna Fund	US$97,548
4	City-wide Air Dispersion Modelling for Greater Accra Metropolitan Area (GAMA)	Clean Air Fund	US$200,000

Publications (For the Year Under Review)

- Naomi Kumi, Caleb Mensah, Kwesi A. Quagraine, Trisha D. Patel, Frederick Otu-Larbi, Nana Agyemang Prempeh, Mariam Nguvava, Tiro Nkemelang, Babatunde Abiodun, Chris Lennard, Mark New, Romaric C. Odoulami. Africa's climate response to stratospheric aerosol injection locations. Frontiers in Climate 2025 (Accepted)

- Ofosu-Bamfo, B., Aguilar, R., MENSAH, C., Yawson, D., Baah, P. Y., Owusu, A. A., & Zurita-Milla, R. (2025). Phenological Dataset for Ecological Forecasting [Data set]. Zenodo. https://doi.org/10.5281/zenodo.15704554

- Gilbert, J., Aryee, J. N., Adjei, M. J., Mensah, C., & Quagraine, K. T. (2025). Machine learning-based assessment of aerosol optical depth over Ghana, West Africa using MODIS satellite data. PLOS Climate, 4(8), e0000651.

- Okrah, A., Magara, G., Mensah, C., Yeboah, E., Prempeh, N. A., Yawlui, I. S. Y., ... & Sarfo, I. (2025). Quantifying anthropogenic impacts on CO_2 and CH_4 emissions: statistical insights and hotspot detection in East Africa. Environmental Monitoring and Assessment, 197(8), 876.

- Aryee, J. N. A., Mensah, C., Ayitah, D. E., Adjei, A. D., Forson, K. P., Tanko, A. A., ... & Prempeh, N. A. (2025). Empowering the next-generation climate scientists: insights from the 2023 Forecasters' WEB exchange program/hackathon at KNUST, Ghana. Weather, 80(3), 79-85. Weather. https://doi.org/10.1002/wea.7633

- Kwakye, J., Kumi, N., Prempeh, N. A., & Mensah, C. (2025). Climate variability and agricultural productivity: A time-series regression analysis of cassava, yam, and maize yields in Wenchi, Ghana. European Journal of Sustainable Development Research, 9(4).

- Kamukama, E. G., Okrah, A., Genesis, M., Mensah, C., Donnata, A., Prempeh, N. A., & Yeboah, E. (2024). COMPREHENSIVE ANALYSIS AND QUANTITATIVE ASSESSMENT OF LAND USE/LAND COVER DYNAMICS IN WAKISO AND KAMPALA, UGANDA: A MULTIDECADAL REMOTE SENSING STUDY. Acta Scientiarum Polonorum. Formatio Circumiectus, 23(4).

- Otu-Larbi, F., Mensah, C., Agyemang Prempeh, N., Kumi, N., & Kyere-Boateng, R. (2024, April). GhanaFLUX: Measuring carbon fluxes in an African Rainforest. In EGU General Assembly Conference Abstracts (p. 20858).

- Yahaya, M., Mensah, C., Addaney. M., Damoah-Afari, P., and Kumi, N. (2024). Climate change and adaptation strategies in rural Ghana: a study on smallholder farmers in the Mamprugu-Moaduri district. International Journal of Climate Change Strategies and Management, 16(1), 112

Community Engagements

- Three (3) faculty members participated in TV programs on GTV on Ghana's Poor Air Quality Kills more than HIV and Malaria: Urgent attention needed on October 7, 2025, another on GTV again on October 13, 2025 and the last on June 6, 2025.
- One (1) faculty Member represented University Management to speak to renowned journalists during the West African Journalism for Environment, Science, Health, and Agriculture (WAJESHA) launch, Centre for Climate Change and Food Security,

Accra, Ghana on August 19, 2025.

- DACS in collaboration with the Association for Women in Climate Science (AWiCS)- UENR chapter, paid a visit to the AWiCS Chapter of the University of Environment and Sustainable Development, Somanya to train the female students and staff on programming in Python on July 25, 2025.
- DACS engaged both staff at the Accra Metropolitan and the general public on a workshop on the theme "Applicability of Low-capital cost Air Quality Monitoring Networks for Air Pollution Management and Control" as part of its seminar series on Wednesday, July 2, 2025.
- DACS participated in the Ghana Government annual tree planting exercise dubbed "Greening Ghana" in the Dormaa Municipality on June 28, 2025.
- DACS collaborated with Green Africa Youth Organization (GAYO) to organize a workshop on Carbon Dioxide Removal (CDR) and Solar Radiation Management (SRM) Certificate Short Course, from June 13-14, 2025, RCESS Conference

Visits

- Visit by Prof. Kirk T. Semple, Director of Global Research, Lancaster University, United Kingdom – September 2026
- Visit by Prof. Michal V. Marek, Director of CzechGlobe, Czech Republic – April 2026
- Visit by a high-level five-member delegation from the Nanjing University of Information Science and Technology (NUIST), China – 2026
- Visit by four faculty members and two postgraduate students from DACS to the Slovak University of Technology (STU), Slovakia, under the ERASMUS+ ICM Exchange Programme – 2025/2026
- Collaboration visit by faculty from Nord University, Norway, to DACS-UENR to establish an exchange mobility program for staff and students under the joint project, "Resilient Communities Across Latitudes: Knowledge Co-production for Climate Adaptation in Global North and South Contexts (WeAdapt)" – 2026

Future Plans of the Department

- DACS will continue to encourage its faculty to publish high-quality journal articles with colleagues both locally and internationally, at least one paper per year.
- DACS will engage several relevant academic institutions (local, regional, and international and industries by signing formal MoUs to enhance its visibility and also to forge more research collaboration.
- DACS will continue to explore more opportunities to attract grants, awards, and funding for research activities.
- DACS will pursue its agenda of seeking external mentoring opportunities to enrich the academic capacity of its members.
- DACS plans to develop an MPhil/MSc Applied Meteorology and Climate Science and PhD Climate Change programs (already presented a draft document to QAAPD for guidance).
- DACS will organize its maiden International Field School (Winter School) on Dendrochronology and Dendroclimatology from January 9-25, 2026 at UENR,

Department of Geospatial Science

RESEARCH COLLABORATIONS/COMMUNITY ENGAGEMENT (LOCAL AND INTERNATIONAL) AND PUBLICATION OF STAFF

- » Ghana Water
- » Lands Commission
- » Ghana Geospatial Society

Workshops/Conferences/Public Lectures (August 2024 – Date)

Surv. Ing. Dr. Peter Damoah-Afari (Senior Lecturer/HoD)

- Participant: Unlocking Economic Potential in the 24-Hour Economy: The Role of the Surveyor. Continuing Professional Development (CPD) organized by the Ghana Institution of Surveyors (GhIS), Hybrid, 29th September 2025.
- Participant: The Role of Geomatic Engineers in Carbon Market Development: Leveraging Geospatial Technologies for Accurate Monitoring, Reporting, and Verification. Geomatics Sub-Group of the Civil Technical Division, Ghana Institution of Engineering (GhIE), 7th August 2025.
- Participant: Engineering Professionals Examination Panelists Workshop (Online), Examinations Section of the Ghana Institution of Engineering (GhIE), 6th August 2025.
- Participant: Amendment of Diploma Numbers. Continuous Professional Development (CPD) Event of the Ghana Institution of Surveyors (GhIS), Online, 30th July 2025.
- Participant: Fundamentals to Use Hyperspectral and Thermal Earth Observation Data, NASA ESDIS User and Mission Support Officer (EUMSO). Two-day Online Data Training Workshop, 21st – 22nd July 2025.
- Participant: Practical Use of UAVs for Engineering Applications: Engineering Design, Flood Monitoring, and Agriculture. Technical Presentation by Geomatic Sub-Division of Ghana Institution of Engineering (GhIE), Online, 7th July 2025.
- Participant: Evolution of GNSS/GPS Technology and Its Applications from Ancient Times to the Present. Webinar by University College of Water Science and Engineering (UWSE), 1st July 2025.
- Participant: Introducing the ASF Displacement Portal: Providing Rapid, Interactive Access to the OPERA Surface Displacement Dataset. NASA ESDIS User and Mission Support Officer (EUMSO), 29th May 2025.
- Participant: Staff Training and Development Programme. University Staff Development Programme: Enhancing Knowledge, Skills and Policy Awareness. Human Resources Division, University of Energy and Natural Resources (UENR), Okuafo Pa Conference Hall, 28th March 2025.
- Speaker: The Role of Culture and Chieftaincy in Modern-Day Local Governance System (Public Lecture). Ghana Day Celebration, 7th March 2025, Dormaa East District Assembly, Wamfie, Ghana.
- Participant: Calculating Spectral Indices for Land and Aquatic Applications Using QGIS, Applied Remote Sensing Training (ARSET) Program, NASA, Advanced Webinar, 27th February 2025.

- Participant: Introduction of the New South Virtual Reality (VR) Simulation Training System. Organized by the Department of Geospatial Sciences QUEST Consolidated Limited, 19th February, 2025.
- Participant: Orientation & Training for Deans, Directors, Heads of Departments, and Center Heads. Strengthening Institutional Leadership: Insights and Best Practices for Effective University Governance. Human Resources Division, University of Energy and Natural Resources (UENR), RCEEs Conference Room, 21st – 23rd January 2025.
- Participant: Professional Mediation Training Workshop for Bono, Bono East, and Ahafo Peace Councils. Marian Conflict Resolution Centre (MCRC), Catholic Secretariat, Sunyani, 2nd – 6th September 2024.
- Participant: Leadership Development Training Programme for Deans, Directors, Heads of Departments, and Centres. By Dr. Vincent Ankamah-Lomotey, Former Deputy Registrar, KNUST and Former Registrar CKT-UTAS, Bank of Ghana Auditorium (FF1 Conference Room), 5th September 2024.
- Participant: Workshop on Programme Accreditation Essentials. Quality Assurance and Academic Planning Directorate (QAAPD), University of Energy and Natural Resources (UENR), Okuafo Pa Block B Auditorium, 13th August 2024.
- Participant: 2025 Budget Production Workshop. Finance Directorate, University of Energy and Natural Resources (UENR), Okuafo Pa Hall, 12th August 2024.
- Participant: 2024 Short Course: InSAR Processing and Analysis (ISCE+) by EarthScope Consortium. Online, from 31st July to 9th August 2024.

Surv. Ing. Dr. Lily Lisa Yevugah (Senior Lecturer)

- Participant, 12th GEO-LDN Online Seminar: How to Achieve LDN through the Use of Geodata and Community-led Restoration Measures 17th September 2025)
- Participant, Interculture week, Optimizing intercultural competence in an Era of Digital Competence in an Era of Digital Transformation. Open Leaning Campus, The World Bank Group (19th, 21st – 22nd May 2025).
- Participant: Introduction of the New South Virtual Reality (VR) Simulation Training System. Organized by the Department of Geospatial Sciences QUEST Consolidated Limited, 19th February, 2025.
- Participant, Coaching and Mentoring in Grantsmanship Programmed (CAMP). University of Energy and Natural Resources, Rosewood Cottage, Kumasi, Ghana. (5th – 11th January 2025).
- Participant, Data - Driven Approach for Combating the Effect of Climate Change on Plant Diseases, Institute of Distance Learning Conference Centre, Kwame Nkrumah University of Science and Technology. (26th November, 2024)
- Technical Expert, Forum for African Women Educationalist. Reviewing and Contextualization the Extended Orientation Program (EOP). FAWE Ghana Chapter. Monarch Hotel, Accra. FAWE Ghana Chapter. (13th - 15th November 2024).
- Participant, International Day for Biosphere Reserves 2024, 4th National Forum on Biosphere Reserves and Sustainable Development. Synergizing our resources through partnership to enhance biosphere reserves contribute to the Global

biodiversity Framework. Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. (12th November 2024).

- Participant, West African School on Air Quality and Pollution Prevention, Kwame Nkrumah University of Science and Technology and Clean Air Fund, Kumasi. (3rd- 13th November 2024)
- Participant, Open Science and Research Integrity dialogue in Western Africa: Actionable Next Steps on implementation for Higher Education Institutes & Stakeholders. (16th – 17th October 2024).
- Participant, Women in Research Manifesto. (3rd October 2024).
- Participant, International Conference on Energy and Engineering; Engineering Advances in the Energy Transition Space: Innovation, Inclusion, and Impact. RCEES Auditorium, UENR, Sunyani Ghana (30th September – 4th October 2024).
- Participant, 8th Public Lecture: From pollution to the circular Bio-Economy, An International Research Journey, RCEES Auditorium, UENR, Ghana (17th September 2024).
- Participant, 7th Public Lecture: Universities, Entrepreneurship, and Enterprise Development for Sustainable Development: Policies, Practices, Trends, and Experiences in Ghana (6th September 2024).
- Participant, University, Entrepreneurship and Enterprise Development for Sustainable Development: Policies, Practices Trends, and Experience in Ghana. RCEES Auditorium, UENR, Ghana (6th September 2024).
- Participant, Women in West and Central African Research and Education (2024) Workshop on Python for weather and climate data analysis (27th – 30th August 2024).

Mr. Louvis Boakye (Lecturer)

- Participant: Fundamentals to Use Hyperspectral and Thermal Earth Observation Data, NASA ESDIS User and Mission Support Officer (EUMSO). Two-day Online Data Training Workshop, 21st – 22nd July 2025.
- Participant: Evolution of GNSS/GPS Technology and Its Applications from Ancient Times to the Present. Webinar by University College of Water Science and Engineering (UWSE), 1st July 2025.
- Participant: Introducing the ASF Displacement Portal: Providing Rapid, Interactive Access to the OPERA Surface Displacement Dataset. NASA ESDIS User and Mission Support Officer (EUMSO), 29th May 2025.
- Participant: Staff Training and Development Programme. University Staff Development Programme: Enhancing Knowledge, Skills and Policy Awareness. Human Resources Division, University of Energy and Natural Resources (UENR), Okuafo Pa Conference Hall, 28th March 2025.
- Participant: Calculating Spectral Indices for Land and Aquatic Applications Using QGIS, Applied Remote Sensing Training (ARSET) Program, NASA, Advanced Webinar, 27th February 2025.
- Participant: Introduction of the New South Virtual Reality (VR) Simulation Training System. Organized by the Department of Geospatial Sciences QUEST Consolidated Limited, 19th February, 2025.

Mr. Frederick Apwah (Assistant Lecturer)

- Participant: IPCC Cities Reviewer Webinar: A webinar hosted by Wellcome and the University of Alberta on how health experts can become reviewers of the first order draft of the IPCC Special Report on Climate Change and Cities. Learn how to apply, what's involved in the process, and hear practical tips from IPCC authors. Online: 15th October 2025.
- Participant: Data for Health in Africa and the 5th DS-I Africa Consortium Meeting: Data Science for Health Discovery and Innovation in Africa (DS-I Africa) Consortium in collaboration with University of Cape Town, University of Cape Coast (UCC), Kwame Nkrumah University of Science and Technology (KNUST) and the University of Ghana. The meeting was held at the CEDI Conference Centre based at the University of Ghana through support from the National Institutes of Health (U.S.) and the Wellcome Trust (U.K.). 23 – 29 Aug 2025.
- Participant: Third Annual Workshop of the Heat Adaptation Benefits for Vulnerable Groups in Africa (HABVIA) project. Co-hosted by the African Climate & Development Initiative at the University of Cape Town and the South African Medical Research Council, Pretoria. The HABVIA project is a four-year study funded by the Wellcome Trust to investigate the efficacy of heat adaptation interventions and health outcomes in four heat-stressed communities in Ghana and South Africa. 21– 25 Jul 2025.
- Participant: Webinar: "Intersecting Crises: Gender, Climate Change and Forced Displacement in West Africa" The Centre for Migration Studies, University of Ghana in collaboration with International Development Research Centre (IDRC). 18 Jul 2025.
- Participant: Climate and Health Summit, London. The Wellcome Trust in collaboration with the Physiological Society. 16 – 17 Jul 2025.
- Participant: Webinar: — Journal Club Webinar Series Session Four: Climate Change and Chronic Disease Confirmation. The Journal Club Webinar Series on Climate Change and Health is an initiative of the Public Health Working Group within the Global Consortium for Climate and Health Education (GCCHE).

26 Jun 2025.

- Participant: Webinar: — Evidence to action: How can theories of change strengthen health policy, programmes and planning? WHO Evidence to Policy and Impact Unit in Collaboration with the Veredas Institute. 10 Jun 2025.
- Participant: Webinar: — "Learning Exchange for Labs in the field - How to SECURe sustained impact". Hosted by the URBAN (Unlocking Resilience through Bottom-up Action-research and multi-scalar Networks) project. The Urban project is a CLARE funded project under ARA (Adaptation Research Alliance). Their work is grounded in the context analysis methodology of the SECURe (Strengthening and Enhancing Contextual Urban Resilience) framework which was co-created with over 100 organisations. 28 May 2025.
- Participant: African Climate and Development Initiative (ACDI) Seminar: Climate Change and Health Policy Formulation and Implementation in the South African Context is almost here. University of Cape Town, South Africa. 28 May 2025.

- Participant: Seminar: — Natural Capital Accounting in Ghana: Informing Policy and Management: Global Program on Sustainability (GPS) in collaboration with the Ghana Natural Capital Accounting (G-NCA) Program. 15 May 2025.
- Participant: Workshop: —Essential Issues in Research Paper Writing and Publishing 2025. University of Ghana Centre for Teaching and Learning Innovation (CTLI). Venue: New Research and Innovation Directorate (RID) Building, University of Ghana. 7 – 9 May 2025.
- Participant: Practical Climate Action for Caribbean Health Professionals: A How-To Series. "How to Win a Grant for Climate and Health". Columbia, Marian School of Public Health, Global Consortium on Climate and Health Education; EarthMedic EarthNurse and; The University of the West Indies. 16 Apr 2025.
- Participant: Workshop: —Theme: University Staff Development Programme: Enhancing Knowledge, Skills and Policy Awareness. Target Participants: All Senior Members and Senior Staff (Teaching and Non-Teaching). University of Energy and Natural Resources (UENR), Human Resource Division at the Okuafo Pa Conference Hall-Dormaa. 28 Mar 2025.
- Participant: Webinar: — First Climate and Health Learning Collaborative: Regional Webinar Series. Co-hosted by The National Academy of Medicine and Global Consortium on Climate and Health Education. Focus: share innovative climate and health resources from the Northwest & Alaska region with a through line of prevention, mitigation, resiliency, and recovery. 19 Mar 2025.
- Participant: Webinar: — Practical Climate Action for Caribbean Health Professionals: A How-To Series. "How to build alliances between health professionals and people of faith for better climate". Columbia, Marian School of Public Health, Global Consortium on Climate and Health Education; EarthMedic EarthNurse and The University of the West Indies. 12 Mar 2025.
- Participant: Research Seminar: — Climate Change and Health: Harnessing Population Health Data and Technology for a Resilient Future. Monash University Malaysia, leading the 'Heat Adaptation through Community-Based Approaches and Research at SEACO project' under the HeatNexus Network. 24 Feb 2025.
- Participant: Introduction of the New South Virtual Reality (VR) Simulation Training System. Organized by the Department of Geospatial Sciences QUEST Consolidated Limited, 19th February, 2025.
- Participant: Webinar: — Practical Climate Action for Caribbean Health Professionals: A How-To Series. "How to Gather and Share Data for Effective Climate Action in Health". Columbia, Marian School of Public Health, Global Consortium on Climate and Health Education; EarthMedic EarthNurse and; The University of the West Indies. 12 Feb 2025.
- Participant: Practical Climate Action for Caribbean Health Professionals: A How-To Series. "How to Write a Policy Brief". Columbia, Marian School of Public Health, Global Consortium on Climate and Health Education; EarthMedic EarthNurse and; The University of the West Indies. 22 Jan 2025.
- Participant: Webinar: — Green Budgeting. The Energy and Resources Institute (TERI), New Delhi, India.10 Jan 2025.
- Participant: UNFCCC and COP training by the Global Climate and Health

Alliance. As part of the G7 cohort support programme, "Wellcome" commissioned the Global Climate and Health Alliance to provide training on the United Nations Framework Convention on Climate Change (UNFCCC) and Conference of the Parties (COP) processes for their G7 and wider C&H grantees, with the following objectives: to better understand the UNFCCC and COP processes, key stakeholders and negotiation blocks, as well as influencing opportunities; to explore where and how evidence is used within the UNFCCC and COP processes, and how researchers can best participate to achieve impact. 13 Dec 2024.

- Participant: Workshop: — Mitigating Harm in the Digital Era. This workshop, organized by the Digital Transformations for Health Lab and the Data Solidarity Team at the University of Vienna, supports the work of The Lancet & Financial Times "Commission Governing health futures 2030: Growing up in a digital world". 27 Nov 2024.
- Participant: MacJannet Prize Symposia: Civic Engagement, Climate Justice, and the Urban Environment. MacJannet Prize Symposia: Civic Engagement, Climate Justice, and the Urban Environment. 12 Nov 2024.
- Participant: Workshop: — University of Arizona 15th Urban Heat Island (UHI) Workshop-2024: Climate Assessment for the Southwest (CLIMAS), Arizona Institute for Resilience (AIR), The University of Arizona. 31 Oct 2024.
- Participant: Early Career Researcher Webinar Series — Leading your first international collaboration: Managing people and projects. Worldwide Universities Network (WUN). 23 Oct 2024.

Dr. Obed Fiifi Fynn (Lecturer)

- Participant: The African Opportunity in Carbon Trading webinar. African School of Regulation, 1st October 2025.
- Participant: Seminar by SEEQUENT on the topic, From Maps to Models with Leapfrog Geo, 8th July 2025.
- Participant: A City Divided: The Urban Sanitation Paradox. Seminar organized by the Department of Geospatial Sciences, 21st March 2025.
- Participant: Introduction of the New South Virtual Reality (VR) Simulation Training System. Organized by the Department of Geospatial Sciences QUEST Consolidated Limited, 19th February 2025.
- Participant: GHIGCON-2024 Annual Geoscience Conference under the theme: "Strategic Natural Resources Exploration & Exploitation Guarantee for Sustainable Development. 8th-11th October, 2024.
- Participant: Machine Learning for Geoscientists Short Course, October - December 2024.

Publications (for the year under review) (August 2024 – Date)

Surv. Ing. Dr. Peter Damoah-Afari (Senior Lecturer/HoD)

- Gyile, D. N., Damoah-Afari, P., Osei-Gyabaah, A. P., and Adjei, V. Patterns

of Deforestation and Forest Fragmentation in Ghana's Apamprama Forest Reserve: A Remote Sensing-Based Approach. Scientific African. 1st October 2025 (Preprint). Available at http://dx.doi.org/10.2139/ssrn.5548183.

- Amproche, A.A., Damoah-Afari, P., Komlavi, A. and Antwi, M. Combined Effects of Multiple Environmental Factors on Spatio-Temporal Variability of Soil Moisture in the Volta River Basin Using Machine Learning. International Journal of Applied Earth Observation and Geoinformation (Preprint). 26th June 2025. Available at http://dx.doi.org/10.2139/ssrn.5320993
- Kelly, C. I., Boateng, E. F., Zibrila, A. Andam-akorful, S. A., Quaye-Ballard, J. A., Larri, P., and Damoah-Afari, P. (2025). Understanding Hydrometeorological Conditions and their Relationship with Crop Production in the Upper East Region, Ghana. Agricultural Water Management, 312(5):109434. ELSEVIER, ScienceDirect. 1st May 2025. https://doi.org/10.1016/j.agwat.2025.109434
- Osei, J. D, Arhin, E., Twumasi, Y.A., Yevugah, L.L., Boakye, L., Damoah-Afari, P., Saah, D. and Coffie, P.B. (2024). Poisoned for Gold: Assessing the Spatial Extent of Heavy Metal Contamination with the Tutua-Bura-Angoben Shelter Belt Forest Reserve in Ghana. Journal of Watershed Ecology and the Environment, 6, 146-154, 25 August 2024. https://doi.org/10.1016/j.wsee.2024.08.001.

Surv. Ing. Dr. Lily Lisa Yevugah (Senior Lecturer)

- Tetteh, A. T., Kahuri, S., Yevugah, L. L., Moomen, A. W., Kwakwa, P. A., & Yakubu, I. (2025). A Multi-Criteria Approach to Fluvial Flood Vulnerability Assessment: A Case Study of Lower Manya Krobo Municipality. Water Cycle. https://doi.org/10.1016/j.watcyc.2025.06.001Get rights and content
- Asamoah, B. D., Yevugah, L. L., Borquaye, L. S., Dodd, M., & Darko, G. (2025). Receptor modeling, ecological risks, and human health impacts of mercury in some Ghanaian topsoils due to mining and commercial activities. Environmental Toxicology and Chemistry, 44(5), 1400-1409. https://doi.org/10.1093/etojnl/vgaf054
- Tetteh, A.T., Moomen, A-W., Yevugah, L.L., Tengnibour, A. (2024). Geospatial approach to pluvial flood-risk and vulnerability assessment in Sunyani Municipality. Heliyon 10(18), https://doi.org/10.1016/j.heliyon.2024.e38013
- Osei, J. D., Arhin, E., Twumasi, Y. A., Yevugah, L. L., Boakye, L., Damoah-Afari, P., Coffie, P. B. (2024). Poisoned for gold: assessing the spatial extent of heavy metal contamination within the Tutua-Bura-Angoben Shelter Belt Forest Reserve in Ghana. Watershed Ecology and the Environment, 6(1), 146-154 https://doi.org/10.1016/j.wsee.2024.08.001.
- Asamoah, B.D., Yevugah, L. L., Borquaye, L. S., Dodd, M., & Darko, G. (2024). Spatial distribution, bioaccessibility, and human health implications of potentially toxic elements in mining-impacted topsoils in Obuasi Municipality of Ghana. Environmental Geochemistry and Health, 46(8), 1-13. https://doi.org/10.1007/s10653-024-02028-w

Mr. Louvis Boakye (Lecturer)

- Boakye, K., Iyanda, A., Oppong, J., Kumbeni, M. T., & Boakye, L. (2025). Association of outdoor artificial light at night on blood pressure and hypertension: Insights from a population-based survey. Journal of Prevention & Intervention in the Community, 1-23.
- Osei, J. D, Arhin, E., Twumasi, Y.A., Yevugah, L.L., Boakye, L., Damoah-Afari, P., Saah, D. and Coffie, P.B. (2024). Poisoned for Gold: Assessing the Spatial Extent of Heavy Metal Contamination with the Tutua-Bura-Angoben Shelter Belt Forest Reserve in Ghana. Journal of Watershed Ecology and the Environment, 6, 146-154, 25 August 2024. https://doi.org/10.1016/j.wsee.2024.08.001.

Mr. Frederick Apwah (Assistant Lecturer)

- Yorose, W. A., Boatbil, C. S., & Apwah, F. (2025). Farmers' Vulnerability to floods: Evidence from the Upper East Region. African Journal of Applied Research. Vol. 11, No. 4 (2025), pp.1-27 http://www.ajaronline.com. https://doi.org/10.26437/ajar.v11i4.1199
- Yorose, W. A., Apwah. F. & Narte, E. K. (2025). Surviving Floods using Psychological Preparedness and Socio-economic Assets in Ghana's White Volta Basin. The Cradle of Knowledge: African Journal of Educational and Social Science Research AJESSR -ISSN 2304-2885-p, 2617-7315-eVolume 13, Issue 1, 2025. https://serek.or.ke/journal/index.php/AJESSR/article/view/50

Dr. Obed Fiifi Fynn (Lecturer)

- Kazapoe, R. W., Mvile, B. N., Kalimenze, J. D., Kwayisi, D., Amuah, E. E. Y., Sagoe, S. D., Fynn, O. F., & Opoku, P. A. (2025). A data-intensive framework for evaluating ecological and human health impacts of soil potentially toxic elements (PTEs) in the mining-endemic region of Singida, Tanzania. Environmental Geochemistry and Health, 47(10), 1-27.
- Sagoe, S. D., Kwayisi, D., Alidu, S., Amuah, E. E. Y., Addai, M. O., Fynn, O. F., & Kazapoe, R. W. (2025). Ecological Risk Assessment and Source Apportionment of Potentially Toxic Elements in an Emerging Mining Zone Region of Northwestern Ghana. Results in Engineering, 106840.
- Kazapoe, R. W., Mvile, B. N., Kalimenze, J. D., Kwayisi, D., Sagoe, S. D., Ibrahim, K., & Fynn, O. F. (2025). Source apportionment of potentially toxic elements from an urbanising region: Insights from multivariate analysis in Singida, Tanzania. Geosystems and Geoenvironment, 100396.
- Kazapoe, R. W., Kwayisi, D., Alidu, S., Sagoe, S. D., Amuah, E. E. Y., Fynn, O. F., ... & Naziru, B. (2025). Source-specific probabilistic health risk assessment of potentially toxic elements in soils from a mining area using Monte Carlo simulation: A case study from southwestern Ghana. Ecological Indicators, 174, 113376.
- Kazapoe, R. W., Kwayisi, D., Alidu, S., Fynn, O. F., Sagoe, S. D., Amuah, E. E. Y., & Nyavor, E. (2025). Patterns and source apportionment of potentially toxic elements distribution in the soils of the Nangodi area, Northeast Ghana: A multivariate and

machine learning approach. Journal of Hazardous Materials Advances, 18, 100688.

- Kazapoe, R. W., Kwayisi, D., Alidu, S., Sagoe, S. D., Umaru, A. O., Amuah, E. E. Y., ... & Fynn, O. F. (2025). Advanced Analysis of Soil Pollution in Northeastern Ghana Using Variational Autoencoders (VAE) and Positive Matrix Factorization (PMF). Environmental and Sustainability Indicators, 100627.
- Kazapoe, R. W., Kwayisi, D., Sagoe, S. D., Anafo, H., Fynn, O. F. & Amuah, E. E. Y. (2025). Understanding the Diverging Environmental Challenges of Artisanal and Small-Scale gold mining (ASM) in Ghana's North and South. Geological Society of Africa (GSAf), Volume 13 – Issue 1.
- Appiah, G., Gyamfi, C., Fynn, O. F., Opoku, E. K., Anyemedu, F. O. K., & Turkson, J. (2024). Sediment transport dynamics in a semi-arid reservoir environment: A case study of the Weija Dam. Science and Development, 9(1).

Community Engagements (November 2023 – July 2024)

Visits

- Outreach Programme at the Dormaa Senior High School.

Department of Geography and Sustainability Science

Capacity-building and Training Workshop

In line with this mission, the department undertook several significant activities during the 2024/2025 academic year. The department organized a three-day intensive training workshop focused on surveying, preparation of site plans, and master plans. The workshop aimed to strengthen students' technical and practical competencies in spatial analysis and land-use planning. Participants gained hands-on experience in field measurements, data collection, and the application of planning tools, further bridging the gap between theory and practice.

Donations to the Department

Additionally, the department received generous donations from both past and current enrolled students. The items donated included a laptop, a projector, a three-in-one wardrobe/cupboard, and two showcase shelves, which totalled GH₵16,500. These contributions demonstrate the strong sense of commitment and collaboration between the department and its student body and are expected to enhance teaching and administrative operations.

Staff Promotions

During the period under review, Dr. Prisca Ama Anima was promoted from Lecturer to Senior Lecturer. This promotion reflects her dedication to academic excellence, research, and service to the department and the university community.

Workshops/Conferences/Public Lectures

- Summer School on Public Policy Analysis and Evaluation. Sponsored by the Council for the Development of Social Science Research in Africa (CODESRIA) to be implemented by UENR in January 2024 among facilitators from Leiden

University, Boston University, University of Johannesburg, Maastricht University/ UNU-MERIT, and UENR.

- Cap-Net, UNDP and Global Water Partnership sponsored and organized short course on Water Safety Planning**.**

Community Engagement

- Reviewer, Journal of Land Use Policy, Journal of Urban Affairs, Journal of Local Environment.
- Reviewer, World Resources Institute's handbook on global land governance.
- Speaker on the topic "Contraceptives and Reproductive Health" Girls talk program dubbed Time with the counselor on 30th January, 2022
- Speaker on the topic "Career Independence" at Youth People Guard week celebration of the Grace Congregation on 20th April, 2022
- Assistant Project Manager: Bundling Small Scale Irrigation and Drought Index Insurance to manage smallholder Risk and Expand their access to Agricultural Credit. This project is funded by USAID in partnership with the International Centre for Evaluation and Development.
- Research Team member: Constraints to the Sustainable Adoption of Integrated Soil Fertility Management in Ghana, in collaboration with Japan International Research Centre for Agricultural Sciences (JIRCAS)

Publications

Academic Staff Profiling

The profile of academic staff, consisting of research, publications, internationalization, community engagement, and conferences/workshops for the 2024-2025 academic year, is as follows:

1. Dr. Prisca Ama Anima (Senior Lecturer)

Research Activities and Interest

Population, cultural and health Studies geography, Issues of sustainability, Livelihoods Studies, Environment and development, Gender studies

Internationalisation

- Member, African Studies Association (ASA)

Partnership and Collaborations

- Co-Creator: Sustainable Development Goals Alumni program "Advanced Training in Co-Creating Avenues for Culture and Sustainable Development".

Community Engagement

- Speaker on the Topic "Empower Her: Slay the stage; Build your career brand Girls talk program Women desk Ghana Association of Student Planners on 14th June, 2025.
- Speaker on the topic "What I wish I knew in Level 100: Navigating your steps in the university" at Presbyterian and Methodist Student Union on 9th February, 2025.

Publications

- Anthony Kwame Morgan, Prisca Ama Anima, Bernice Wadei & Daniel Katey (2025) Addressing stigma and discrimination towards school re-entry of teenage mothers in Ghana. International Journal of Adolescence and Youth, 30:1, 2441322, DOI: 10.1080/02673843.2024.2441322

- Tampah-Naah, A. M., Anima, P. A., & Appiah-Boateng, S. (2024). Cultural practices supporting early motherhood in a Ghanaian community. Culture, Health & Sexuality, 1-13. Doi.org/10.1080/13691058.2024.2334935

2. Dr. Leslie Danquah (Senior Lecturer)

Research activities/interests:

- Child Environmental Health
- Domestic Water Use
- Domestic Water Quality Assessment and Monitoring.
- Environmental Geography

Research publication(s):

- Boakye, S. K., Danquah, L., & Antwi, M. (2025). Maternal mental health improvement in ghana: role of green spaces exposure. BMC Women's Health, 25, 328.
- Boakye, S. K., & Danquah, L. (2025). Maternal awareness, attitudes, and practices relating to green spaces and their impact on child health in Sunyani, Ghana. BMC Pregnancy and Childbirth, 25(1), 785.

3. Dr. David Anaafo (Senior Lecturer)

Research Activities/Interests

- Research Interests: Sustainable property and pro-poor land policy; decentralisation and local governance; urban planning in mid-sized, growth and transition cities; and environmental change and sustainable development
- On-going research activities: Containerisation and urban resilience

Community Engagement

1. Reviewer, Journal of Land Use Policy, Journal of Urban Affairs, Journal of Local Environment.
2. Reviewer, World Resources Institute's handbook on global land governance.

Journal Articles

- Anaafo, D., Nutsugbodo, R. Y., Agyepong, E., Anane, G. K., Mensah, B. A., & Bata, P. D. (2024). Place making decisions among informal street food vendors in Sunyani, Ghana. Cities, 154, 105328. https://doi.org/10.1016/j.cities.2024.105328.

- Afful, B. E. B., Addaney, M., Anaafo, D., Akudugu, J. A., Borkor, F. K., Yeboah, E. O., & Sampana, J. (2024). Public-private partnership in municipal solid waste management in the Sunyani municipality of Ghana. Journal of Property, Planning and Environmental Law, 16(3), 201-217. https://doi.org/10.1108/JPPEL-04-2023-0012.

- Anaafo, D., Asare-Nuamah, P., & Beuchelt, T. (2025). Navigating between local visions and goals of national policies for sustainable land management in Ghana. Development in Practice, 1-13. https://doi.org/10.1080/09614524.2025.2514539.

- Codjia, A. K. D., Hackman, K. O., Son, D., Ouedraogo, V., Gandji, K., Sanou, C. L., Momo, B., Anaafo, D., Appiah, O., Diallo, A. B., Ogunjobi, O. K., Damoue, A. & Dabire, G. (2025). PEWS: A Pilot Early Warning System for Pest and Disease Management in Burkina Faso. Journal of Geovisualization and Spatial Analysis, 9(2), 29. https://doi.org/10.1007/s41651-025-00230-7.

- Wireko-Gyebi, R. S., Braimah, I., Anaafo, D., Moomen, A. W., & Lykke, A. M. (2025). Challenges Associated with formalising Artisanal Small-Scale Mining in Ghana. Sage Open, 15(2), 21582440251341054. https://doi.org/10.1177/21582440251341054.

- Anaafo, D., Nutsugbodo, R. Y., Anane, G. K., Agyepong, E., & Koomson, D. N. (2025). Temporary Structures, Permanent Challenges:'Containerisation' and Urban Governance in the Sunyani Municipality, Ghana. Urban Forum (pp. 1-23). https://doi.org/10.1007/s12132-025-09541-w.

- Gyile, D. N., Asare, A., Osei-Gyabaah, A. P., & Anaafo, D. (2025). Assessment of land use and land cover changes and their impact on land surface temperature in Greater Accra, Ghana. Scientific African, 29, e02826. https://doi.org/10.1016/j.sciaf.2025.e02826.

- Asagadunga, P., Addaney, M., Anaafo, D., Akudugu, J. A., Ayee, D., & Abebrese, F. A. (2025). Managing Urban Waterbodies and Wetlands in Sunyani, Ghana Analysis of geospatial data towards enhanced management. International Review for Spatial Planning and Sustainable Development, 13(2), 160-178. https://doi.org/10.14246/irspsd.13.2_160.

Book Chapters

Anaafo, D., Wireko-Gyebi, R. S., & Ayamga, A. (2025). A Reflective Approach to Planning in Africa. In Urban Planning Challenges and Innovations in Sub-Saharan Africa (pp. 200-216). Routledge.

Working Papers

Anaafo, D., Asare-Nuamah, P., & Beuchelt, T. (2025). Assessment of the levels of synergies in the land policies of Ghana, Benin and Senegal (No. 240). ZEF Working

Paper Series.
Asare-Nuamah, P., Anaafo, D., Beuchelt, T., & Akurugu, C. A. (2025). A systematic review of gender in participatory and social learning research in agriculture and land management in Africa. Frontiers in Sustainable Food Systems, 9, 1664042. https://doi.org/10.3389/fsufs.2025.1628825.

Conferences and Workshops Attended

- Participant and Session Moderator: Expert workshop on visionary ideas to transform funding of participatory and transdisciplinary research for sustainable development in Africa", held on the 15th of October 2024 at the ISSER Conference Facility, University of Ghana, Accra.

- Participant and Poster Presenter: International conference on tropical agriculture (Tropentag, 2024), University of Natural Resources and Life Sciences, Vienna (BOKU), Austria, September 11-13, 2024.
- Online Participant: Developing Northern Australia Conference, 24 – 26 July, 2024 Darwin.

- Discussant: Driving Urban Transitions (AGORA Dialogue) "the hot topics for urban transitions" organised by the Driving Urban Transitions Partnerships of the Austrian Research Promotion Agency (FFG), Virtual Workshop, held on February 22, 2024.

4. Dr. Emmanuel K. Apiors (Lecturer on Leave of Absence)

Research Interests

» Experimental and non-experimental methods of impact evaluation
» Water - Energy - Food security nexus
» Climate Smart Agriculture
» Digital Technologies
» Sustainable cooling and cold chains

Internationalisation

· Member: Japanese Association for Development Economics (JADE)
· Member: Ghana Association of Agricultural Economist

Partnership/Collaboration

» Assistant Project Manager: Bundling Small Scale Irrigation and Drought Index Insurance to manage smallholder Risk and Expand their access to Agricultural Credit. This project is funded by USAID in partnership with the International Centre for Evaluation and Development.
» Research Team member: Constraints to the Sustainable Adoption of Integrated Soil Fertility Management in Ghana, in collaboration with Japan International Research Centre for Agricultural Sciences (JIRCAS)

Innovation and Publication

- Martey, E., Kuwornu, J. K., Kemeze, F. H., Etwire, P. M., Apiors, E. K., & Miranda, M. J. (2025). Non-cognitive skills and willingness to participate in drought index crop insurance in Ghana. Climate and Development, 1-14.

- Martey, E., Kuwornu, J. K., Etwire, P. M., Apiors, E. K., Kyire, S. K. C., Izideen, P. M. M., & Kemeze, F. H. (2025). Does participation in on-farm demonstrations improve aspirations formation and food security? Evidence from Ghana. Food Security, 17(1), 127-144.
- Suraj, M. M., Martey, E., Kuwornu, J. K., Apiors, E. K., Kemeze, F. H., & Etwire, P. M. (2025). Membership of water user association and implications for food security. Journal of Agriculture and Food Research, 20, 101739.

- Suraj, M. M., Martey, E., Kuwornu, J. K., Apiors, E. K., Kemeze, F. H., & Etwire, P. M. (2025). Journal of Agriculture and Food Research. Journal of Agriculture and Food Research, 20, 101739.

5. Dr. George Kwadwo Anane (Adjunct Lecturer)
Research Activities/Interests
Research Interests: Urban land use planning; urban politics; urban planning legislation; spatial transformation; land administration; urban governance; and higher education leadership and management.

Ongoing Research Activities: Re-imagining peri-urbanisation and land use conflicts: Selected cases from secondary cities in Ghana; Democratising online teaching and learning platforms for equity among learners in Ghanaian universities.

Internationalisation
Summer School on Public Policy Analysis and Evaluation. Sponsored by the Council for the Development of Social Science Research in Africa (CODESRIA) to be implemented by UENR in January 2024 among facilitators from Leiden University, Boston University, University of Johannesburg, Maastricht University/ UNU-MERIT, and UENR.

Research Publications
· Anaafo, D., Nutsugbodo, R. Y., Anane, G. K., Agyepong, E., & Koomson, D. N. (2025, August). Temporary Structures, Permanent Challenges: 'Containerisation' and Urban Governance in the Sunyani Municipality, Ghana. In Urban Forum (pp. 1-23). Springer Netherlands.

- Anane, G.K. (2024). Peri-urban growth patterns and planning control of peri-

urbanization in Ghana. Editor(s): Mehebub Sahana. Modern Cartography Series, 11: 509-528. ISSN 1363-0814, ISBN 9780443158322. https://doi.org/10.1016/B978-0-443-15832-2.00022-8.

- Anaafo, D., Nutsugbodo, R.Y. Agyepong, E., Anane, G.K., Mensah, B.A. and Bata, P.D. (2024). Place making decisions among informal street food vendors in Sunyani, Ghana, Cities (154):105328. ISSN 0264-2751. https://doi.org/10.1016/j.cities.2024.105328.

- Anane, G. K. & Adusei, A. (2024). Democratizing Online Learning Platforms: Ghanaian Universities' Experience in Promoting Equity Through Accessibility in Online Learning. In L. Kyei-Blankson, J. Keengwe, & E. Ntuli (Eds.), Designing Equitable and Accessible Online Learning Environments (pp. 205-223). IGI Global. https://doi.org/10.4018/979-8-3693-0268-2.ch009.

6. Victoria Adutwumwaa (Part-time lecturer)

Research Activities/Interests

Research Interests: Sustainability management; urban water supply; water economics; Sustainable Agriculture; water quality assessment; water footprint assessment.

Ongoing Research Activities: Heavy Metals in Irrigation Water and Their Effects on Agricultural Soil Quality and Crop Production in Ghana, A systematic Review; Evolution of Urban Water Supply in Sub-Saharan Africa, A systematic Review

Internationalisation

Cap-Net, UNDP and Global Water Partnership sponsored and organized short course on Water Safety Planning.

Research Publications

- Victoria, A., & Nnebini, D. N. (2025). A Systematic Review of Heavy Metals in Irrigation Water and Their Effects on Agricultural Soil Quality and Crop Production in Ghana. Journal of Geoscience and Environment Protection, 13(1), 48-70.

Future plans of the department

- Deepen research and impact through inter departmental and institutional collaborations.
- Improve teaching and learning through inter departmental collaborative engagements.
- Strengthen our collaboration with stakeholders and communities within our catchment.

SCHOOL OF MINES AND BUILT ENVIRONMENT

SCHOOL OF MINES AND BUILT ENVIRONMENT

Introduction (Establishment)

The School of Mines and Built Environment, the youngest school within the university, was established in 2021 and officially began operations on August 1, 2023, at the Sunyani campus. The school initially started with two functional departments and an inaugural cohort of twenty-one (21) postgraduate students.

Departments and Research Centres/Institutes

The School currently hosts two functional departments:

i. Department of Sustainable Mineral Resource Development
ii. Department of Land Management

Academic Programmes

VI. Department of Sustainable Mineral Resource Development

Head of Department: Dr. Ophelia Ayamga.

vii. Undergraduate Programmes:
m. BSc Sustainable Mining
n. BSc Urban Mining
o. BSc Development Minerals Mining

viii. Postgraduate Programmes
i. MSc/MPhil Sustainable Mining
j. PhD Sustainable Mining

VII. Department of Land Management

Head of Department: Dr. Rejoice Selorm Wireko-Gyebi

Academic Programmes

i. Undergraduate Programmes:
a. BSc Sustainable Land Management
ii. Postgraduate Programmes
a. MSc/MPhil Land Degradation Neutrality
b. PhD Sustainable Land Management
c. MSc Mining and Extractive Resource Policy Planning

Administration of the School

The School Administration is constituted by the following personnel:

1. Prof. Jonas Ayaribilla Akudugu	Dean
2…Eric L. Mwintome	Faculty Officer
3. Mr. Jesse Amo Osei	Principal Administrative Assistant

Staff and Students Statistics

The current staff composition of the two operational departments under the School of Mines and Built Environment is as follows:

Department of Land Management

Level / Year	**Male**	**Female**	**Total**
BSc Sustainable Land Management			
100	87	58	145
200	10	11	21
Sub-Total	97	69	166
MSc Land Degradation Neutrality			
Year 1	1	0	1
Sub-Total	1	0	1
MSC Mining and Extractive Resource Policy Planning			
Year 1	5	3	8
Sub-Total	5	3	8
MPhil Land Degradation Neutrality			
Year 1	9	4	13
Year 2	6	2	8
Sub-Total	15	6	21
PhD Sustainable Land Management			
Year 1	1	2	3
Year 2	5	4	9
Sub-Total	6	6	12
Grand Total	**124**	**84**	**208**
Department of Sustainable Mineral Resource Development			
Level / Year			
BSc Sustainable Mining			
Level 100	**68**	**36**	**104**
Level	**17**	**13**	**30**
Sub-Total	**85**	**49**	**134**
BSc Development Mining			

Level 100	13	10	23
Sub-Total	13	10	23
BSc Urban Mining			
Level 100	2	1	3
Sub-Total	2	1	3
MSc Sustainable Mining			
Year 1	11	3	14
Sub-Total	11	3	14
MPhil Sustainable Mining (yet to admit students)			
Grand Total	**111**	**63**	**174**

Staff of the Departments

The Departments are made up of Associate Professor, Senior Lecturers, lecturers, Assistant Lecturers and Administrators. Their details are as follows:

Teaching - Department of Land Management			
Name	**Qualification**	**Designation**	**Area of specialisation**
Prof Jonas A. Akudugu	PhD, Development Studies - Bonn MSc Development Planning and Management - Kumasi BA, Integrated Development Studies - Tamale	Associate Professor	Development Planning
Dr. Rejoice Selorm Wireko-Gyebi	PhD, Planning, - Kumasi MSc Development Policy and Planning - Kumasi BSc Planning -Kumasi	Senior Lecturer	Policy Planning

Dr. Michael Addaney	PhD, Environmental and Natural Resource Law - Wuhan MPhil, Human Rights and Democratization in Africa - Pretoria MSc Strategic Planning and Management-Tamale BSc Planning, Kumasi	Senior Lecturer	Environmental Planning/Law
Mr. Kingsley Atta Nyamekye	MSc, Development Planning and Management – Germany BSc, Planning - Kumasi	Lecturer	Spatial Planning
Mr. Thomas Abindaw	M.Sc. Land Policy and Administration-Cape Coast MPhil Land Use and Environmental Science – Cape Coast BSc Land Economy - Kumasi	Assistant Lecturer	Land Management
Non teaching			
Mr. Williams Boakye Dadson	BSc. Education	Senior Administrative Assistant (contract)	
Teaching - Department of Sustainable Mineral Resource Development			

Ing. Dr. Ophelia Ayamba	PhD, MSc. /MPhil		Environmental Management, Impact Assessment, Mine Planning, Mineral Extraction, Project Appraisal, Project Management, Impact Assessments (Environmental/Social)
Dr. Abdul Wadood-Moomen	PhD		Mineral Resource Development, GIS, Remote Sensing, Mine Planning, Sustainable Mining, Mine Project Appraisal, Contract Negotiation, Geodatabase Management, Mineral Exploration, Impact Assessments (Environmental/Social)
Dr. Solomon Koomson	PhD Mining Engineering Tarkwa, MSc Mining Engineering, Tarkwa	Lecturer	
Mr. Siaw Baffour	MSc		Mineral Extraction, Mine Automation, Project Appraisal, Sustainable Mining, Impact Assessment, Mine Site Remediation, Project Management, Impact Assessments (Environmental/Social)
Dr. Eugene Sefa Appiah	PhD Materials Engineering at Kwame Nkrumah University of Science and Technology, Kumasi.	Lecturer	
3 active adjunct lecturers			

Non Teaching			
Ms. Comfort Oppong Asamoah	BSc. Development Planning	Senior Administrative Assistant (contract)	

Research Collaborations (Local and International)

- Newmont Ghana,
- Ghana Geological Survey Authority (GGSA), and
- Minerals Commission (MINCOM).

Workshops/Conferences/Public Lectures

Prof Jonas Akudugu/Dr Rejoice Wireko-Gyebi/Mr Kingsley Atta Nyamekye
The 53rd Annual General Conference and meeting of the Ghana Institute of Planning on the 21st and 22nd November 2024 at the Eusbett Hotel, Sunyani.

Mr. Kingsley Atta Nyamekye

Workshop on "Climate Hazards and other Thematic Maps Development Using Google Earth Engine and QGIS" on 6th May and 7th May, 2025 organised by The Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ) GmbH at the Regional Coordination Council (RCC) Sunyani.

Messrs. Thomas Abindaw & Eric L. Mwintome

Attended a three-day International Conference on Energy and Engineering (ICEE'25) held at RCEES Auditorium, UENR – Sunyani Campus from 1-3rd October 2025. Theme: Engineering the Future: Smart Innovations for Sustainable Energy, Agriculture, Infrastructure, and Climate Resilience.

Addaney, M. 'Beyond Adaptation and Climate Aid: Climate Reparations as a Driver of Resilience and Low Carbon Development in Africa', presented at the Dialogue on Justice through Reparations, 'Advancing Justice through Reparations: Reparations, Restoration, and Renaissance' 2 - 3 June 2025 at the Future Africa Campus, University of Pretoria, South Africa.

Addaney, M. 'Revisiting the concept of equity in international climate change law with reflections from the African position', presented at the Symposium on African Perspectives on International Climate Change Law, 7 – 8 April 2025, at the University of the Western Cape, South Africa.

Proposals

- Waste-to-Resource Innovations in Artisanal and Small-Scale Mining
- Framework for Urban Mining in Ghana
- Innovative Reclamation Techniques for Sustainable Small-Scale Mining in Ghana and Zambia – Mr. Siaw Baffour, member of TCC Mining Environment team (Jan–

Mar 2025)
- Transitioning Illegal Miners into the Formal Sector – Concept note by Ing. Dr. Ophelia Ayamba, currently under review by a team of assessors

Grant and Awards

- Ing. Dr. Ophelia Ayamba received a Proposal Writing Grant Award from UENR for training in proposal writing

Funding of Research Activities

Publications (for the year under review): refereed journal articles and conference papers and books etc.

Prof Jonas Ayaribilla Akudugu

Akudugu, J. A., Addaney, M., Akaateba, M. A., & Wireko-Gyebi, R. S. (2025). Shaping urban planning and infrastructural configurations through everyday practices and resistance: The case of the Bolgatanga market reconstruction. In Hybrid Urbanisms in Secondary Cities of the Global South (pp. 77-88). Routledge.

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a changing climate. In Handbook on Planning and Climate Change Adaptation (pp. 274-287). Edward Elgar Publishing.
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Dr Rejoice Selorm Wireko-Gyebi

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Dr. Michael Addaney

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Mr. Kingsley Atta Nyamekye

Nyarko, G., Nyamekye, K. A., Wireko-Gyebi, R. S., Akudugu, J. A., & Addaney, M. (2025). Land use Planning in Ghana: A Review of Emerging Trends, Prospects, and Challenges. Journal of Energy and Natural Resource Management (JENRM), 10(2), 62–74.

Mr. Thomas Abindaw

Abindaw T, Kumi, S. Asigbaase M. Mensah, C. (2025). Evaluating Land Use Impacts on Soil Organic Carbon and Soil Health for Resilient Land Management in Ghana. JEMA

Dr. Eugene Sefa Appiah

Appiah, E. S. et al. (2025). Electrochemical assessment of nanostructured phosphorus-doped Fe_2O_3 via diatomite template as a pseudocapacitive electrode material. Chemical Papers (Springer Nature).

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Ing. Dr. Ophelia Ayamba

Ing. Dr. Ophelia Ayamba authored a departmental resource, "A Guide to Academic

Writing," for postgraduate students (under review by the School of Graduate Studies and Quality Assurance Directorate).
Wireko-Gyebi, R. S., Braimah, I., Anaafo, D., Moomen, A. W., & Lykke, A. M. (2025). Challenges associated with formalising artisanal small-scale mining in Ghana. SAGE Open, 15(2).

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Ghana [Dataset]. IITA. https://doi.org/10.25502/DQAA-7E05/D

Community Engagements

Mr. Kingsley Atta Nyamekye

A talk on "Career choice at the Tertiary Education level" as part of their SRC week celebration on the theme "The Positive Impact of Unity and Diversity on Academic performance" at the Gilberto Academy/Senior High School on 25th June, 2025.
Ing. Dr. Ophelia Ayamba delivered a GhIE seminar on "Restoring Surface Mine Ecosystems: Strategies for Post-Mining Ecological Enhancement" (9 August 2025).
Dr. Eugene Sefa Appiah and Mr. Siaw Baffour served as polling officials for the SRC/LNUGS elections (11 August 2025).
Mr. Siaw Baffour facilitated the MoU signing between UENR and GGSA (12 March 2025).

Visits

1. First fieldwork visit to Newmont Ahafo South Mine with Level 200 Sustainable Minerals (SMIN) students, organized twice this term.
2. Mercury-free gold processing practical session on campus in partnership with Commodity Monitor, resulting in the first 7 grams of gold poured on campus.
3. Outreach engagement with MIIF, MINCOM, GGSA, and the Ghana Chamber of Mines
4. The Department organized an educational field visit to Newmont Ahafo South

Mine with Level 200 students as part of their field practicals.

Future Plans of the School

- The School intends to establish some more departments.
- Plans are afoot to introduce BSc. Architecture & Environmental Design
- Strengthen collaboration with industry for student internships and applied research.
- Expand postgraduate research under the MPhil Sustainable Mining programme.
- Establish a Sustainable Mining Research and Innovation Hub.
- Inaugurate the WiMSA–UENR Chapter.
- Seek accreditation for new programmes in Responsible and Urban Mining

UNIVERSITY LIBRARY

UNIVERSITY LIBRARY

Introduction

The UENR Library System was established to serve students, staff, and the community. It comprises one main library and four satellite libraries situated at the Sunyani and Dormaa Ahenkro campuses. The library holds information resources covering Engineering, Sciences, Natural Resources, Agriculture, Technology, Geosciences, Energy, Arts and Social Sciences, Mines, and the Built Environment.

DIRECTORATE/DIVISION AND STAFF

The UENR library currently has 21 staff members.
13 full-time staff members
8 part-time staff members

LIST OF STAFF OF THE UENR LIBRARY

No.	Name of Staff	Sex	Full time	Part-time	Qualifications (Both Academic and Professional)
1.	Dr. Miriam Linda Akeriwe	F	*		PhD Information Science, Master of Information Technology, B.A Information Studies, Dip. Library Studies
2.	Mercy Ama Asafu-Adjaye	F	*		M.A/MPhil Information Studies
					B.A Publishing Studies
3.	Harriet Fosua Attafuah	F	*		MPhil Information Studies
					Post Graduate Diploma in Education (PGDE, English Language)

					B.A Psychology with Linguistics
4.	**Selorm Anku Ankudey**	**M**	*		**MSC. Library Science**
					BSc. Computer Science
					Diploma I.T
5.	**Pearl Owusua Amanquah**	**F**	*		**M.A Information Studies**
					B.A Information Studies
6.	**Richard Gu-Imenga Aa-Som**	**M**	*		**M.A Information Studies**
					B.A Information Studies
7.	**John Adamba**	**M**	*		**M.A Information Studies**
					B.A Information Studies
8.	**Samuel Twumasi Appiah**	**M**	*		**M.A Information Studies**
					B.A Information Studies
9.	**Mary Asare**	**F**	*		**B.A Information Studies**
10.	**Ebenezer Amoah Cheremeh**	**M**	*		**B.A Information Studies**
11.	**Richard Adu-Gyamfi**	**M**	*		**B.A Information Studies**

12.	**Elizabeth Boakyewaa Peprah**	**F**	*		**B.A Information Studies**
13.	**Bismark Awar**	**M**		*	**B.A Information Studies**
14.	**Godfred Yeboah Asiamah**	**M**		*	**Bsc. Statistics**
15.	**Lina Osei Kwarteng**	**F**		*	**B. A Information Studies**
16.	**Esi Arkoh Turkson**	**F**		*	**B.A Human Resource and Information Studies**
17.	**Clement Anedam Aloah**	**M**		*	**Bsc. Resource Enterprise and Entrepreneurship**
18.	**Patience Affi**	**F**		*	**B.A Human Resource and Information Studies**
19.	**Gift Nyarkoa Wiafe**	**F**		*	**B.A Information Studies and Sociology**
20.	**Matilda Asafo-Agyei**	**F**	*		**BTech Management and Entrepreneural Studies**
21.	**Hameedatu Nuhu**	**F**		*	**BSc. Natural Resource Management**

Major Activities over the Past Year

7. Completed Activities

- The completion and furnishing of a new reading room in the New Library Building.
- Completion and furnishing of Hall Two Reading Room.
- Establishment of an Institutional Repository.

8. Ongoing Activities

- Acquiring core text books for all programmes run in the university
- Acquiring e-books (ProQuest Books)
- Refurbishing the Dormaa campus library
- Establishment of Departments and Sections
- Introduction of Information Literacy Programme
- Policies
- Collection Development

- Institutional Repository Policy
- General User Guide

Other Activities

- Workshops: Several workshops have been organised for the library staff to train them on new trends in the library profession and how to apply them to their work.
- Engaging with different accreditation teams from GTEC.
- Received the Five-Year Cyclical Review team from GTEC, who came to assess the library's infrastructure.
- Seminars/Webinars: the library has organised several webinars for its users (students, staff, and faculty).

Challenges

There are a number of challenges faced by the library:

1. Inadequate spacing for users and staff offices.
2. Inadequate furniture and equipment, such as computers, photocopiers, and printers, hinder effective operations.
3. Insufficient information resources for the various courses offered by the university.

Future Plans of the Office/Directorate/Division

The library intends to create various spaces for users once the building is completed. These include Research Commons and Knowledge Commons, discussion and seminar rooms, and a bindery offering a range of reprographic services such as printing, photocopying, and binding of theses, dissertations, and other documents.

SCHOOL OF GRADUATE STUDIES

INTRODUCTION

This report presents a comprehensive account of the activities, performance, achievements, and challenges of the School of Graduate Studies (SGS) of the University of Energy and Natural Resources (UENR) for the 2024/2025 Academic Year. The report to the Vice-Chancellor in accordance with the University's governance and reporting framework and seeks to inform Management of the School's contribution to postgraduate education, research, and institutional development.

During the year under review, the school continued to play its coordinating and regulatory role in postgraduate education, working closely with Faculties, Schools, Departments, and external stakeholders to ensure quality assurance, timely supervision, and effective administration of graduate programmes.

MANDATE AND FUNCTIONS OF THE SCHOOL OF GRADUATE STUDIES

The School of Graduate Studies operates under the University of Energy and Natural Resources Act, 2011 (Act 830), and relevant Statutes of the University. The core mandate of the school includes:

- Coordinating and overseeing all postgraduate programmes of the University
- Ensuring quality assurance in postgraduate teaching, learning, research, and assessment
- Regulating admissions, registration, supervision, and examination of postgraduate students
- Coordinating thesis and dissertation examination processes
- Promoting postgraduate research, publications, and innovation
- Facilitating collaborations and linkages relevant to graduate education.

GOVERNANCE AND ADMINISTRATIVE STRUCTURE

Governance

The School of Graduate Studies is governed by the School Board, which operates under delegated authority from the Academic Board of the University. The Board provides policy direction and oversight on academic and administrative matters relating to postgraduate education.

Management

The day-to-day administration of the school is managed by the Dean, supported by: School Administrator; Senior Member and Senior Staffs; Administrative and support staff.

Committees of the School, including the Examiners Committee and Admissions Sub-Committee, supported the effective discharge of the school's responsibilities during the period under review.

STAFF STRENGTH AND HUMAN RESOURCE DEVELOPMENT

Staff Strength

The staffing of the school during the 2024/2025 Academic Year comprised: Senior Members (Academic and Administrative); Senior Staffs; and contract Staff.

The existing staff complement continued to demonstrate commitment and professionalism

despite increasing workload arising from growth in postgraduate enrolment.

Capacity Building

Staff participated in internal training programmes and workshops organized by the University to enhance efficiency, ICT usage, and customer service delivery.

ACADEMIC PROGRAMMES

Programmes Offered

During the 2024/2025 Academic Year, the School coordinated postgraduate programmes leading to the award of: Doctor of Philosophy (PhD); Master of Philosophy (MPhil); Master of Science (MSc).

These programmes were run in collaboration with the respective Faculties and Schools in line with approved curricula and accreditation requirements.

Programme Development and Review

The school facilitated the development, review, and submission of selected postgraduate programmes for accreditation and re-accreditation in line with national regulatory requirements and University policy.

STUDENT ENROLMENT AND STATISTICS

Enrolment by Programme

During the 2024/2025 Academic Year, the School of Graduate Studies coordinated twenty (20) postgraduate programmes across the various Schools of the University. Total enrolment covered PhD, MPhil, MSc and MBA programmes as detailed below:

1. MPhil/PhD Sustainable Energy Engineering Management – PhD: 24; MPhil: 27
2. MSc/PhD Environmental Engineering Management – PhD: 8; MSc: 10
3. MPhil/PhD Social Forestry and Environmental Governance – MPhil: 24; PhD: 1
4. MSc/MPhil/PhD Environment, Water and Sustainability – PhD: 3; MPhil: 10; MSc: 4
5. MSc/MPhil/PhD Crop Science – MPhil Crop Science: 26
6. MSc/MPhil/PhD Computer Science – MPhil: 28; MSc: 8; PhD: 4
7. MPhil Applied Mathematics – MPhil: 33
8. MSc/MPhil Environmental Planning and Development – MPhil: 14
9. MBA/MPhil Agribusiness Management – MBA: 3; MPhil: 13
10. MSc/MPhil Climate Change – MPhil: 24
11. MPhil Animal Science and Production – MPhil: 15
12. MPhil Chemistry – MPhil: 11
13. MPhil Environmental Science – MPhil: 7
14. MSc/MPhil Geoinformation Science – MSc: 12; MPhil: 7
15. MSc Sustainable Mining – MSc: 14
16. MPhil Land Degradation Neutrality / PhD Sustainable Land Management – MPhil: 14; PhD: 3
17. MSc/MPhil Natural Gas Engineering and Management – MPhil: 14
18. MSc Mining and Extractive Resource Policy Planning – MSc: 9

19. MPhil/MSc Information Technology – MPhil: 40; MSc: 12

These enrolment figures reflect sustained interest in postgraduate programmes, particularly in science, engineering, environmental management, and applied technology disciplines.

Graduation Statistics

The school successfully coordinated postgraduate graduation activities during the 2024/2025 Academic Year, culminating in the award of degrees across PhD, MPhil, MSc and MBA programmes.

Master of Business Administration (MBA)

- MBA Agribusiness Management – Total Graduands: 1

Master of Philosophy (MPhil)

- Agribusiness Management – 13
- Crop Science – 25
- Applied Mathematics – 23
- Computer Science – 19
- Climate Change – 16
- Environmental Planning and Development – 12
- Social Forestry and Environmental Governance – 10
- Environment, Water and Sustainability – 9
- Animal Science and Production – 3
- Geoinformation Science – 2
- Land Degradation Neutrality – 8

Master of Science (MSc)

- Crop Science – 5
- Computer Science – 11
- Environmental Engineering Management – 18
- Sustainable Energy Management – 16
- Information Technology – 10
- Environment, Water and Sustainability – 7
- Animal Science and Production – 1
- Geoinformation Science – 5
- Land Degradation Neutrality – 1
- Sustainable Mining – 5

Doctor of Philosophy (PhD)

- Crop Science – 2
- Computer Science – 1
- Social Forestry and Environmental Governance – 1
- Environmental Engineering Management – 6
- Sustainable Energy Management – 6
- Environment, Water and Sustainability – 13

Thesis Examination

During the period under review, a total of 205 thesis and dissertations were examined by internal and external examiners. Out of this number, two (2) theses were unsuccessful, while the remaining candidates satisfied the requirements for the award of their respective degrees.

TEACHING, SUPERVISION AND RESEARCH ACTIVITIES

Supervision

The school coordinated the appointment of supervisors and co-supervisors for postgraduate students in line with university guidelines. Efforts were made to ensure compliance with approved supervisor–student ratios.

Thesis and Dissertation Management

During the period under review, the school processed: Research proposals; Progress reports; Thesis and dissertation submissions; Appointment of internal and external examiners.

Research Output

Postgraduate research contributed to publications in peer-reviewed journals, conference presentations, and policy-relevant outputs in line with the University's research agenda.

EXAMINATIONS AND QUALITY ASSURANCE

The school implemented quality assurance mechanisms including: Vetting of examination questions and assessment procedures; Use of plagiarism detection systems; Engagement of qualified external examiners; Monitoring of examination timelines and reporting.

Feedback from external examiners was reviewed and communicated to relevant Faculties and Departments for continuous improvement.

COLLABORATIONS AND LINKAGES

The school supported postgraduate-related collaborations with: Internal Faculties and Schools; Research institutions; Industry partners.

These collaborations enhanced supervision, research exposure, and capacity building for postgraduate students.

INNOVATIONS AND DIGITAL TRANSFORMATION

The school continued to strengthen digital systems for: Online admissions and registration; Student records management; Electronic tracking of thesis and dissertations; Communication with students and supervisors.

These initiatives improved efficiency and service delivery.

FINANCIAL OVERVIEW (SUMMARY)

The school operated within the approved budgetary framework of the University. Internally Generated Funds (IGF) from postgraduate programmes supported administrative operations, examination processes, and quality assurance activities. Financial management complied with university financial regulations.

CHALLENGES

Key challenges encountered during the 2024/2025 Academic Year included: Inadequate office and storage space for student records and theses; Increasing supervisory workload due to growing enrolment; Delays in thesis examination in some instances; Limited ICT infrastructure and logistical support.

ACHIEVEMENTS AND HIGHLIGHTS

Despite the challenges, the school recorded the following achievements: Sustained growth in postgraduate enrolment; Improved coordination of thesis examination processes; Enhanced digital record management practices; Successful graduation of postgraduate students; Strengthened collaboration with Faculties and Schools.

RECOMMENDATIONS TO MANAGEMENT

The school respectfully makes the following recommendations: Provision of additional office and archival space for the school; Investment in ICT infrastructure and digital archiving systems; Incentive mechanisms to support postgraduate supervision.

PLANS FOR THE 2025/2026 ACADEMIC YEAR

Planned activities for the ensuing academic year include: Expansion and review of postgraduate programmes; Further digitization of SGS operations; Strengthening quality assurance mechanisms; Enhancing research support for postgraduate students; Deepening local and international collaborations.

CONCLUSION

The School of Graduate Studies remains committed to advancing high-quality postgraduate education and research in line with the strategic objectives of the University of Energy and Natural Resources. The 2024/2025 Academic Year recorded notable progress despite operational challenges. The continued support of Management will be critical to sustaining and improving postgraduate education delivery.