**CURRICULUM VITAE**

**NAME:** **ARKOH**, MARTIN ABED (PhD)

**NATIONALITY**: GHANAIAN

**DATE OF BIRTH** : 8TH SEPTEMBER, 1964

**PLACE OF BIRTH** : AGONA NSABA

**OCCUPATION:** Lecturer and Hall Tutor

**RESPONSIBILITIES**: Lecturer, Scientist, Researcher, Thesis Supervision and

 Reviewer, WAEC Examiner and Counsellor

**QUALIFICATIONS**: PhD Ecology, M.Phil (Biology), B.Sc. (Zoology / Botany)

**ADDRESS**: Kwame Nkrumah University of Science & Technology

 Theoretical and Applied Biology Department

 University Post Office

 Kumasi , GHANA

**PHONE No.** : CODE: **0233**: 0244682894, 0268287267, 0201215676

**E-MAIL ADDRESSES**: kwameasaregh@yahoo.co.uk, maarkoh.sci@knust.edu.gh

**MARRIED STATUS:** Married

**NUMBER OF CHILDREN: 4**

**SPECIALITY APPLICATIONS**:

**1a. LECTURING ;**

 Wetland and Forest Ecology, Biodiversity and Conservation Practices, Plants and

 Animal systematics.

**1b**. **LABORATORY ;**

 Herbarium and Museum Practices, Histological Preparations, Forensic Examinations,

**2. RESEARCH INTEREST:**

 a) Wetland and forest ecology

 b) Soil manipulation on plant growth

 c) Environmental manipulations in malaria control (vector target).

**3. COUNSELLOR**

 Academic and Social Counsellor to over 400 University Students (Department and Hall).

**CERTIFICATES**

6. PhD candidate ………………………………………….. 2019

5. M. Phil Biology (KNUST)……………….………………… 2011

4. B.Sc. Zoology / Botany ……………………………………. 1998

3. Diploma in Laboratory Technology ………………………… 1991

2. GCE (A’ Levels) …………………………………………… 1984

1. GCE (O’ Levels) …………………………………………... 1982

**SCHOOLS ATTENDED**

6. Kwame Nkrumah University of Science & Technology ….. 2015 - 2019

5. Kwame Nkrumah University of Science & Technology ….. 2007 - 2010

4. University of Cape Coast for B.Sc. Degree ……………… 1996 - 1998

3. University of Cape Coast for Dip. Lab. Tech. …………… 1988 - 1991

2. Aggrey Memorial Zion Secondary School (A Level) ……… 1982 - 1984

1. Agona Nsaba Presby Secondary School (O Level) ………. 1978 - 1982

**EXPERIENCES**

**A) WORK** :

6**. Lecturer** (Biology and Environmental Sciences) ……………….. 2011 ….

6. WAEC Examiner (Team Leader) ………………………………. 2008 …

5. **Technical Instructor** (Lecturing & Lab. practices) KNUST ..…. 2005 -2011

4. **Graduate Assistant** (University of Ghana) ………………… .. 2003-2004

3. **Principal Technologist** (Univ. of Education) ………………….. 1993-2000

2. **Science Teacher** (GES) & Alpha Beta Educ. Complex ………… 2003-2004

1. **Liaison Officer** (National Service Secretariat, Agona District) … 1985-1988

**B) SOCIAL** :

8. **BoardMember**. Board bof Governors for Nsaba Presby S.H.S. ……..2021-2025

7. **College of Science Representative** to the KNUST Inter-Departmental Sports

 Union and College Coach ………..………………………… 2009 ---

6. **Hall Fellow**: Independence Hall (KNUST) ……………….. 2006 ---

5. **Board Secretary**: National Board for Bethany Schools ……. 2004 -2006

4. **Senator** : Graduate Students Association of Ghana ….. …. 2002- 2003

3. **President** : Universities Senior Staff Assoc. of Ghana …….. 1998- 2000

2. **President** : Nsaba Youth Association ……………… 1995 -2006

1. **President** : Penticostal Students Fellowship (MF), UCC ….. 1996 -1998

**FACILITATORSHIP**

**6.** I gave a lecture on Urban Biodiversity Assessment methods to an International Program consisting of MSc and PhD students at the Planning Department, KNUST. August 2015.

**5.** Voluntarily organized WAEC Exams Conduct, and University Admissions and Financial Assistance Workshop for Final year students at Nsaba Secondary School (2016 & 2017).

**4.** I gave a talk on ‘Education ;Key to National Development’ at Nsaba Secondary School at the SRC week celebration . November 2015

**3.** Annual lecturing for the 1st year students of UEW (Mampong campus) on Biological

 preservations; herbarium and museum practices ( 2006 – 2008).

**2.** Training for newly employed senior technicians for the College of Natural

 Resources of KNUST (Dec. 2009).

**1.** Educational Technology in-service program for lecturers (UEW) (1997).

**TRAININGS / CONFERENCES**

**30.** 10th KNUST Summer School for lecturers ………………………….. 2-5th Oct. 2023

**29.** Ghana Science Association 33rd Biennial Conference, Legon. ……. Sept. 2023

**28.** 12th Ghana Science Association Research Seminar and Oral/poster Presentation. Celebrating the International Year of Basic Sciences for Sustainable Development (IYBSSD-2023). Book of ABSTRACTS. Primary Productivity of Owabi Lake in Ashanti Region, Ghana, March 2023.

**27.** Ministry of Education workshop for Board of Directors of Government Assisted

Secondary Schools in Ghana at Winneba. ………………………….1-3rd February 2023

**26**. Ghana Science Association 32nd Biennial Conference, Kumasi. 5-8th October 2021

**25.** Certificate (INSTRUCTOR). KNUST online Teaching Training Course. Sept 2020

**24**. Online Teaching and Certification of Academic Staff by QAPU, KNUST.22-25/09/2020

**23.** 6th KNUST Summer School for lecturers ……………………. Aug. 2018

**22**. 5th KNUST Summer School for lecturers ……………………. Aug. 2017

**21**. BSU workshop on research and manuscript writing. Sunyani. Jan. 23 -28, 2017

**20**. 1st KNUST National Conference on Outreach. Stakeholders Conference. March 2016.

**19**. WASCAL International Stakeholders workshop on Climate Change. KNUST, Jan. 2016

**18.** Building Better Universities (BSU). COHS. Research Communication Feb 2016

**17**. 4th KNUST Summer School for lecturers ……………………. Aug. 2015

**16**. 3rd KNUST Summer School for lecturers ……………………. Aug. 2014

**15**. 2nd KNUST Summer School for lecturers ……………………. Aug. 2013

**14**. 1st KNUST Summer School for lecturers ……………………. Aug. 2011

**13.** Capacity Building on Water Harnesting; Consortium program ..... .. July 2015

**12**. Building Better Universities (BSU). Short Courses on wetland ecology 2015

**11**. Building Better Universities (BSU). Short Courses on Agric and climate change,2015

1**0**. Building Better Universities (BSU). Short Courses on green energy harvesting, 2015

 **9**. Ghana Science Association 13th Biennial Conference ………… Aug, 2018

 **8**. Ghana Science Association 11th Biennial Conference ………… July, 2011

 **7.** Ghana Science Association 10th Biennial Conference ………. Aug, 2009

 6. College of Science Research Conference (2nd) ……………… July, 2008

 **5.** College of Science Research Conference (1st) ……………. June, 2006

 **4.** Induction training for new lecturers by Quality Assurance Unit .. Aug. 2006

 **3**. Ghana Science Association Biennial Conference ……………. July 2005

 **2**. In-Service Trainings for Senior Staffs (EUW) …………... …… 1993-2000

 **1.** Physical Education Training (GES) ……………………… 1993

**ASSIGNMENTS**

**14**. Mentor/Counsellor for Independent Hall students (R33M-36M)………………..2024

**13**. Mentor/Counsellor for Independent Hall students (R151M-154M)………..........2023

**12**. Member : Botanic Garden Board. T. A. B. , KNUST. 14/11/2019

**11**. Chairman for Biology Students Association games 12/4/2019.

**10.** Member : Three member committee to review and rebuilt Departmental Plant House. 2017.

**9.** Member : Ghana Science Association Planning Committee for April 2016 seminar.

**8.** Member of Department Oversight Committee ... 18/08/2014 - 17/08/2018

**7.** Supervision of post-graduate students since 2011.

**6.** Sports coach for the College of Science, and the College representative to the KNUST staff sports committee since 2008.

**5**. I am an examiner (local & International) for WAEC (Biology II papers) since 2008 for both the June and November sessions.

**4.** I was a resource person for a ‘Talk’ on the topic “ Plant; A source of life” that was

 organised by the Science Students Association of the College of Science (KNUST)

 during the celebration of the Science week on 14th February, 2007.

**3**. I led a five man committee that was set up by the Theoretical and Applied Biology

 Department to look into the affairs of the Herbarium and the Botanic garden, and to

 make recommendations for their proper functioning. (March – May, 2006).

**2**. Academic tutor / counselor for Biology and Environmental science students since January, 2006.

**1**. Reviewer of thesis and long essays for final year undergraduate students of

 Biology and Environmental Science Departments since 2007.

**ABSTRACTS/ORAL PRESENTATIONS AND RESEARCH PROCEEDINGS**

**6.** Littoral Vegetation and the Physico-chemical Characteristics of the Owabi lake in Ghana. Oral Presentation/Research proceedings. Ghana Science Association 32nd Biennial Conference, Kumasi. 5-8th October 2021.

**5.** Soil moisture deficits on the growth of six cowpea accessions from Ghana ABSTRACT. **GSA Webnar 2021**. 10th Research Seminar and Poster Presentations. KNUST. Kumasi. 27-28/04/2021. Published. P.34.

**4.** Effects of soil moisture deficit on rooting, nodulation potential and nitrogenase activity of four cowpea accessions from Ghana. ABSTRACT. **GSA Webnar 2021.** 10th Research Seminar and Poster Presentations. KNUST. Kumasi. 27-28/04/2021. Published. P.33.

**3**. Effects of water stress on the growth and yield of cowpea accessions from ecological zones in Ghana. **College of Science**. 2nd Research Conference Proceedings. Published; February 2012.

**2.** The abundance and Distribution of macro-invertebrates in deserted ponds; A case study of a deserted pond at KNUST. ABSTRACT submitted to **College of Science** for the COS 3rd Research Conference. Scheduled for July, 2016. Cape Coast.

**1**. Composition and abundance of advanced regeneration of timber trees in the Asenanyo Reserved Forest in Ghana. ABSTRACT submitted to **College of Science** for the COS 3rd Research Conference. Scheduled for July, 2016. Cape Coast.

**PUBLICATIONS**

**4.** **Arkoh, M. A. and Anning, A. (2023).** Littoral Vegetation and Physico-chemical Characteristics of the Owabi Lake in Ghana. Journal of Science and Technology (**JUST**). KNUST. Vol 41. No.2. pp. Published August 2023.

**3. Arkoh, M.A, Belford, JDB, Terlaibie, J. (2022**). Effects of soil moisture deficit on vegetative anatomy of cowpea accession in Ghana. Journal of Science and Technology **(JUST)**, KNUST. Vol.40. No.3. Published November 2022.

**2**. **Arkoh, M. A**. Compliance of safety measures at fuel filling stations in the Western Region. A time bomb? Submitted to **New Times Corporation and Daily Graphic Group of Companies for publication.** 2017.

**1.** **Arkoh, M.A. et al. (2015).** Assessment of prevailing safety management practices in filling stations in the Western Region of Ghana (August 2015). **Journal of Basic and Applied Research International**. 11(2):104-113.

**BOOKS WRITTEN**

**3**. **Arkoh, M. A. (2008).** Advanced Biological Techniques II (Microscopy & Histological Practice) .. 2009.

**2.** **Arkoh, M.A, Craw, R.C., Heads, M. & Grehan, J.R. (1999).** Panbiogeography-Tracking the History of Life. Oxford Biogeographical series. [www.passeidireto.com/](http://www.passeidireto.com/)

**1.Arkoh, M. A (2005**). Advanced Biological Techniques 1 (Herbarium & Museum Practices) ……2005/2006 Academic year.

**THESIS**

**2**. Determination of the vegetation structure of the Owabi Ramser Sanctuary, Primary productivity and Water quality of the Owabi lake/Reservoir the Ashanti Region, Ghana. PhD Thesis. 2023. KNUST . [www.dspace-knust.edu](http://www.dspace-knust.edu) gh

**1**. Effects of water stress on the growth and yields of six cowpea accessions from 3 agro-ecological zones in Ghana. (M.Phil Thesis) 2010. KNUST dSpace on line.

**STUDENTS PROJECT WORKS SUPERVISED**

**MSc. (postgraduate) Level**

**21.** Effects of illegal artisanal mining on River Bosaso of the Bonsaso community in the Western Region, Ghana. Mphil Thesis. KNUST. Presented on …

**20**. Assessment of water quality of River Tano in the Brong Region, Ghana MSc. Thesis. Owusu-Agyeman, Eugene. IDL Program. Submitted on July, 2020.

**19**. Determination of the flora community of the littoral zone of the Owabi lake. Yeboah, A. MSc. Thesis. IDL Program. Submitted on July, 2020.

**18**. Assessment of soils around fitting workshops in the Tema Metropolis. MSc Thesis. Jona Jones Tuorkper. IDL Program. Submitted on May, 2019.

**17**. Assessment of sachet waters sold at the Wa Municipality in Ghana. MSc Thesis. James Eledi. MSc. IDL Program. Submitted on May, 2019.

**16**. Assessment of bore-hole water quality of Jema Township in Brong Ahafo Region of Ghana. MSc. Thesis. IDL Program. Submitted on April 2017.

**15**. Assessment of pesticide residues on tomatoes (L. esculentus) in the Wassa Amenfi District in Ghana. MSc Thesis. IDL Program. Submitted Feb. 2017.

**14.** Pesticide usage in the Kwahu West District of Eastern Region of Ghana. MSc Thesis. IDL Program. Submitted Feb. 2017.

**13.** Assessment of the quality of pipe borne water supplied to 3 Districts in the Kumasi Metropolis. MSc Thesis. IDL Program. Submitted Nov. 2016.

**12**. Assessing the safety practices in filling stations in some selected towns in the Western Region of Ghana. IDL Program. Submitted March 2016.

**11**. Waste management practices in the Bekwai District Assembly in the Ashanti Region of Ghana. IDL Program. Submitted; Feb. 2016.

**10.** Assessing the floral composition, structure and advance regeneration of timber trees in the Asenanyo Forest Reserve in Ghana. MSc Thesis. IDL Program. Submitted on 12 February 2015.

**9.** Effects of different pre-germination treatments and early growth on Ptericarpus sp. MSc Thesis. IDL Program. Submitted; May, 2015.

**8.** Assessing health and safety practices at petrol filling stations in the Sekondi-Takoradi Metropolis in Ghana. MSc Thesis. IDL Program. Submitted; August, 2015.

**7.** Water quality of boreholes and hand dug-wells at Pakyi No. 1 in the Amansie District of the Ashanti Region of Ghana. MSc Thesis. IDL Program. Submitted; July, 2014.

**6.** Investigation into occupational health and safety issues among health workers of public institutions. A case study of the Ridge Hospital. MSc Thesis. IDL Program. Submitted; Aug. 2014.

**5.** Assessing the water quality of River Okyi in the Assin Communities of the Central Region , Ghana. MSc Thesis . IDL Program. Submitted July 2014. Co-supervision.

**4.** Assessment of illegal forest activities on the plant diversity of the Tano Offin Globally Significant Area (GSBA) in the Nkawie forest district. MSc Thesis. IDL Pogram. Submitted: Aug. 2013.

**3.** Assessment of the sanitary conditions of the Turaku Abattoir in Tema. MSc Thesis. IDL Program. Submitted; February 2013.

**2.** Assessing the quality of pipe borne water along the transmission line in the Asankrangwa Municipality. MSc Thesis. IDL Program. Submitted; November 2012.

**1.** Assessing the quality of water in the river Asuotia and some selected wells in the Wamfie Distrct of the Brong Ahafo region of Ghana. MSc Thesis. IDL Program. Submitted ; May 2012.

**BSc (undergraduate) level**

**40**. Ecosystem services of the River Wewe in KNUST campus. BSc. Dissertation. Mawutor, et al. Submitted 2020.

**39.** Assessing the repellant activities of some organic materials on the houseflies. BSc. Dissertation. Ernest, et al. Submitted 2020.

**38**. Assessment of the distribution and abundance of macro-invertebrate in the River Wewe along the KNUST campus. BSc. Dissertation. Spencer, et al. Submitted 2020.

**37**. Effect of shisha smoking on the body and visceral systems in animals. BSc. Dissertation. Nyamekye, et al. Submitted 2019.

**36**. Prevalence of malaria in children under five years in deprived and non-deprived communities in the Ashanti Region, Ghana. BSc. Dissertation. Submitted : May 2018.

**35.** Effects of different volumes of water and organic manure on plant growth; *Lycopersicon esculentu*s. BSc. Dissertation. Submitted : May 2017.

**34.** Effects of different concentrations of poultry manure on the growth and yield of tomatoes (*Lycopersicon esculentum*). BSc. Dissertation. Submitted : May 2017.

**33**. Effects of drought on tomato (*Lycopersicon esculentum*) in the Semi-deciduous ecological zone. BSc. Dissertation. Submitted : May 2017.

**32.** Assessing the level of awareness of students willingness to segregate waste on KNUST campus. BSc Dissertation. Submitted : May 2017.

**31** Comparing proximate and anti-nutritional composition of two varieties of Plantain; “apem” and “apentu”. BSc Dissertation. Submitted : May 2017.

**30.** Prevalence of urino-genital infections in KNUST students. BSc. Dissertation. Submitted: May 2016.

**29.** Assessing the heavy metal levels in selected spices sold in sub-urban markets in Kumasi, Ghana. BSc. Dissertation. Submitted: May 2016.

**28.** Assessing the effects of the Kumasi Guinness brewery effluents on the Sisa River in Kumasi, Ghana. BSc. Dissertation. Submitted: May 2016.

27. The effect of urine of different maturation rates on the growth tomato plants. The potential of using urine as a fertilizer substitute in plant cultivation; a case study using tomato plants. BSc. Dissertation. Submitted: May 2016.

**26**. Histopathological assessment of shasha smoke on the weight and anatomy of the winstar rat. BSc. Dissertation. Submitted: May 2015.

**25**. Prevalence of malaria in children under 5years in the Ejisu-Juaben Municipality. . BSc. Dissertation. Submited; May 2015.

**24.** Effect of different selected organic manure from backyards on the growth of tomato plants. BSc. Dissertation. Submitted: May 2015.

**23.** Effect of different selected organic manure from backyards on the growth of tomato plants. BSc. Dissertation. Submitted: May 2015.

**22.** Prevalence of malaria in pregnant women in the Ejisu-Juaben Municipality; A case study of Juaben township. BSc. Dissertation. Submitted: May 2015.

**21.** Effect of small scale mining activities on the water quality of Owerri River at Konongo, in the Ashanti Akim Central Municipality. BSc. Dissertation. Submitted: May 2014.

**20.** Effect of selective logging practices on the floral diversity, abundance and regeneration of the Asenanyo forest reserve in the Ashanti region of Ghana. BSc. Dissertation. BSc. Dissertation. Submitted: May 2014.

**19.** Assessment of the physico-chemical quality of the River Aboabo in the Kumasi metropolis. BSc. Dissertation. Submitted: May 2014.

**18.** Microbial quality of Ice kenkey in the Central Business District of Kumasi in Ghana.

BSc. Dissertation. Submitted: May 2014.

**17.** Effects of galamsey activities on the physico-chemical quality of River Birim in the Eastern region of Ghana. A case study in the Denkyembour District. B.Sc Dissertation .Submitted May, 2013.

**16.** Prevalence and intensity of urinary schistosomiasis in basic school children around lake Bosomtwe. B.Sc. Dissertation. Submitted May 2013.

**15.** Distribution of macro-invertebrates in the sand filter at the Barekese water headworks. B.Sc. Dissertation. Submitted May 2013.

**14.** Evaluation of heavy metal contaminants in some vegetables sold at the Atonsu market in Kumasi. B.Sc. Dissertation. Submitted: May 2013.

**13.** The effects of poultry manure on the growth of Tomato (*Solanum lycopersicum).* B.Sc. Dissertation. Submitted: May 2013.

**12**. The diversity and abundance of macro-invertebrates in the university fish pond. KNUST, B.Sc. Dissertation. Submitted ; May 2012.

**11**. Effects of water stress on root characteristics of four local varieties of cowpea. B.Sc. Dissertation. Submitted ; May 2012.

**10.** Determination of trace elements in River Wiwi and River Sisa in Kumasi. B.Sc. Dissertation. Submitted ; May 2012.

**9.** The effects of environmental management as a means of controlling the prevalence of malaria in the Ejisu-juaben District. B.Sc. Dissertation. Submitted ; April 2012. **National Health Service sponsored project work.**

**8.** The extraction and analysis oils from different varieties of mangoes (*Mangifera indica* (L) Walp). B.Sc. Dissertation. KNUST. Submitted ; May 2011.

**7.** The prevalence and intensity of urinary schistosomiasis in Weweso Basic school children Kumasi. B.Sc. Dissertation. Submitted ; May 2011.

**6.** Assessing the growth of tomato plants under urine and water irrigations. B.Sc. Dissertation. KNUST. Submitted ; April, 2010.

**5.** Evaluation of heavy metals in some spices sold at the Kumasi Central Markets. B.Sc. Dissertation. KNUST. Submitted ;April, 2010.

**4.** Effects of altitudes on plant regeneration and diversity along the lower South Kwahu ridge. B.Sc. Dissertation. KNUST. Submitted ; April, 2010.

**3.** The distribution and species diversity of macro-invertebrates of the Wiwi River along the KNUST campus. B.Sc. Dissertation. KNUST. Submitted ; April, 2010.

**2.** The effects of water deficit on the growth of a local variety of maize; *Zea may* (L). var. “Obaatanpa”. B.Sc. Dissertation. KNUST. Submitted; April, 2009.

**1.** Effects of water stress on the growth and fruit yields of *Vigna* *unquiculata* (L). Sesqui-pedalis. B.Sc. Dissertation. KNUST. Submitted; April, 2009.

**FACILITATORSHIP**

1. Annual lecturing for the 1st year students of UEW (Mampong campus) on Biological

 preservations; herbarium and meseum practices ……………… since 2006

2. Training for newly employed senior technicians for the College of Natural

 Resources of KNUST ……………………………………… Dec. 2009

3. Educational technology in-service program for lecturers (UEW) ……1997

 **TRAININGS / CONFERENCES**

1. 4th KNUST Summer School for lecturers ……………………. Aug. 2014

2. 3rd KNUST Summer School for lecturers ……………………. Aug. 2013

3. 2nd KNUST Summer School for lecturers ……………………. Aug. 2012

4. 1st KNUST Summer School for lecturers ……………………. Aug. 2011

5. Ghana Science Association 13th Biennial Conference ………… July, 2013

6. Ghana Science Association 11th Biennial Conference ………… July, 2011

7. Ghana Science Association 10th Biennial Conference ………. Aug, 2009

8. College of Science Research Conference (2nd) ……………… July, 2008

9. College of Science Research Conference (1st) ……………. June, 2006

10. Induction training for new lecturers by Quality Assurance Unit .. Aug. 2006

11. Ghana Science Association Biennial Conference ……………. July, 2005

12. SNOW Research Consortium Workshop ................................... Aug, 2014

13. Ghana Science Association 14th Biennial Conference ………… July, 2016

14. Ghana Science Association 15th Biennial Conference ………… July, 2018

15. 5th KNUST Summer School for lecturers ……………………. Aug. 2016

16. 6th KNUST Summer School for lecturers ……………………. Aug. 2018

17. BSU stakeholders workshop on thesis writing ………………. May 2019

**LOCAL ASSIGNMENTS**

1. I lecture on Forest Ecology and Vegetation analysis for 2nd year

 Environmental Science students of KNUST, ie. since 2005.

2. I lecture on General Biology I & II for 1st year students of the

 Environmental Science Department, ie since 2009.

3. I led a five man committee that was set up by the Theoretical and Applied Biology

 Department to look into the affairs of the Herbarium and the Botanic garden, and to

 make recommendations for their proper functioning. (March – May, 2006)

4. I was a resource person for a ‘Talk’ on the topic “ Plant; A source of life” that was

 organised by the Science Students Association of the College of Science (KNUST)

 during the celebration of the Science week on 14th February, 2007.

5. I have been serving as the academic tutor for Biology and Environmental science

 Departments since 2006.

7. I have been reviewing thesis and long essays of final year undergraduate students of

 Biology and Environmental Science Departments since 2007.

8. I have been supervising MSc, students in their project works. I have two students at the masters degree level that am supervising currently.

9. I am an examiner for the West African Examinations Council in their examination

sessions (May and November) for Biology Paper II, since 2008.

10. I am responsible for taking visitors (excursions) around the Department on request visits.

11. I am the general schedule officer of the Department.

12. Member of Department Oversight Committee ..... 18/08/2014-17/08/2018

13. KNUST Botanical Garden Oversight Committee member ……… Sept 2019

**INTERNATIONAL ASSIGNMENT**

1. I am an examiner for the West African Examinations Council for Biology Paper II for both May and November examinations, since 2008.

**THESIS AND PUBLICATIONS**

 1.Effects of water stress on the growth and yields of six cowpea accessions from 3 agro-ecological zones in Ghana. (M.Phil Thesis) 2010.

2. Effects of water stress on the growth and yield of six cowpea accessions from

 Ghana. College of Science. 2nd Research Conference presentation. July, 2008. Published; February 2012.

3. Effects of water deficit on the anatomy of four cowpea accessions from

 Ghana. Journal of Science and Technology. (Not yet published).

4. Advanced Biological Techniques II (Microscopy & Histological Practice) .. 2006.

5. Advanced Biological Techniques 1 (Herbarium & Museum Practices) ……2005.

**SUBMITTED ABSTRACTS**

1. The diversity and abundance of macro-invertebrates in the abandoned KNUST fish pond. May 2012. College of Science 2nd Biennial Conference. Scheduled for July, 2012
2. Effects of water stress on root characteristics of four local varieties of cowpea. May 2012. College of Science 2nd Biennial Conference. Scheduled for July, 2012
3. Effects of water deficit on the anatomical features of six cowpea accession from three agro-ecological zones in Ghana. March 2014.

**STUDENTS PROJECT WORKS SUPERVISED**

**MSc. (postgraduate) Level**

1. Assessment of soils around fitting workshops in the Tema Metropolis. MSc Thesis. IDL. Submitted on August, 2018.

2. Assessment of sachet waters sold at the Wa Municipality in Ghana. MSc Thesis. Submitted on Sept, 2018.

3. Assessment of bore-hole water quality of Jema Township in Brong Ahafo Region of Ghana. MSc. Thesis. IDL student. Submitted on April 2017.

4. Assessment of pesticide residues on tomatoes (L. Esculentus) in the Wassa Amenfi District in Ghana. Submitted Feb. 2017.

5. Pesticide usage in the Kwahu West District of Eastern Region of Ghana. Submitted Feb. 2017.

6. Assessment of the quality of pipe borne water supplied to 3 Districts in the Kumasi Metropolis. Submitted Nov. 2016.

7. Assessing the safety practices in filling stations in some selected towns in the Western Region of Ghana. IDL student. Submitted March 2016.

8. Waste management practices in the Bekwai District Assembly in the Ashanti Region of Ghana. IDL student. Submitted; Feb. 2016.

9. Assessing the floral composition, structure and advance regeneration of timber trees in the Asenanyo Forest Reserve in Ghana. Submitted on 12 February 2015.

10. Effects of different pre-germination treatments and early growth on Ptericarpus sp. Submitted; May, 2015.

11. Assessing health and safety practices at petrol filling stations in the Sekondi-Takoradi Metropolis in Ghana. Submitted; August, 2015.

12. Water quality of boreholes and hand dug-wells at Pakyi No. 1 in the Amansie District of the Ashanti Region of Ghana. Submitted; July, 2014.

13. Investigation into occupational health and safety issues among health workers of public institutions. A case study of the Ridge Hospital. IDL student. Submitted; Aug. 2014.

14. Assessing the water quality of River Okyi in the Assin Communities of the Central Region , Ghana. MSc Thesis . Submitted July 2014. Co-supervision.

15. Assessment of illegal forest activities on the plant diversity of the Tano Offin Globally Significant Area (GSBA) in the Nkawie forest district. Submitted: Aug. 2013.

16. Assessment of the sanitary conditions of the Turaku Abattoir in Tema. IDL student. Submitted; February 2013.

17. Assessing the quality of pipe borne water along the transmission line in the Asankrangwa Municipality. IDL student. Submitted; November 2012.

18. Assessing the quality of water in the river Asuotia and some selected wells in the Wamfie Distrct of the Brong Ahafo region of Ghana. IDL student. Submitted ; May 2012.

**BSc (undergraduate) level**

1. Prevalence of malaria in children under five years in deprived and non-deprived communities in the Ashanti Region, Ghana. BSc Dissertation. Submitted : May 2018.

2. Effects of different volumes of water and organic manure on plant growth; *Lycopersicon esculentu*s. BSc Dissertation. Submitted : May 2017.

3. Effects of different concentrations of poultry manure on the growth and yield of tomatoes (*Lycopersicon esculentum*). BSc Dissertation. Submitted : May 2017.

4. Effects of drought on tomato (*Lycopersicon esculentum*) in the Semi-deciduous ecological zone. BSc Dissertation. Submitted : May 2017.

5. Assessing the level of awareness of students willingness to segregate waste on KNUST campus. BSc Dissertation. Submitted : May 2017.

6. Comparing proximate and anti-nutritional composition of two varieties of Plantain; “apem” and “apentu”. BSc Dissertation. Submitted : May 2017.

7. Prevalence of urino-genital infections in KNUST students. BSc. Dissertation. Submitted: May 2016.

8. Assessing the heavy metal levels in selected spices sold in sub-urban markets in Kumasi, Ghana. BSc. Dissertation. Submitted: May 2016.

9. Assessing the effects of the Kumasi Guinness brewery effluents on the Sisa River in Kumasi, Ghana. BSc. Dissertation. Submitted: May 2016.

10. The effect of urine of different maturation rates on the growth tomato plants. The potential of using urine as a fertilizer substitute in plant cultivation; a case study using tomato plants. BSc. Dissertation. Submitted: May 2016.

11. Histopathological assessment of shasha smoke on the weight and anatomy of the winstar rat. BSc. Dissertation. Submitted: May 2015.

12. Prevalence of malaria in children under 5years in the Ejisu-Juaben Municipality. . BSc. Dissertation. Submited; May 2015.

13. Effect of different selected organic manure from backyards on the growth of tomato plants. BSc. Dissertation. Submitted: May 2015.

14. Effect of different selected organic manure from backyards on the growth of tomato plants. BSc. Dissertation. Submitted: May 2015.

15. Prevalence of malaria in pregnant women in the Ejisu-Juaben Municipality; A case study of Juaben township. BSc. Dissertation. Submitted: May 2015.

16. Effect of small scale mining activities on the water quality of Owerri River at Konongo, in the Ashanti Akim Central Municipality. BSc. Dissertation. Submitted: May 2014.

17. Effect of selective logging practices on the floral diversity, abundance and regeneration of the Asenanyo forest reserve in the Ashanti region of Ghana. BSc. Dissertation. BSc. Dissertation. Submitted: May 2014.

18. Assessment of the physico-chemical quality of the River Aboabo in the Kumasi metropolis. BSc. Dissertation. Submitted: May 2014.

19. Microbial quality of Ice kenkey in the Central Business District of Kumasi in Ghana.

BSc. Dissertation. Submitted: May 2014.

20. Effects of galamsey activities on the physico-chemical quality of River Birim in the Eastern region of Ghana. A case study in the Denkyembour District. B.Sc Dissertation .Submitted May, 2013.

21. Prevalence and intensity of urinary schistosomiasis in basic school children around lake Bosomtwe. B.Sc. Dissertation. Submitted May 2013.

22. Distribution of macro-invertebrates in the sand filter at the Barekese water headworks. B.Sc. Dissertation. Submitted May 2013.

23. Evaluation of heavy metal contaminants in some vegetables sold at the Atonsu market in Kumasi. B.Sc. Dissertation. Submitted: May 2013.

24. The effects of poultry manure on the growth of Tomato (*Solanum lycopersicum).* B.Sc. Dissertation. Submitted: May 2013.

25. The diversity and abundance of macro-invertebrates in the university fish pond. KNUST, B.Sc. Dissertation. Submitted ; May 2012.

26. Effects of water stress on root characteristics of four local varieties of cowpea. B.Sc. Dissertation. Submitted ; May 2012.

27. Determination of trace elements in River Wiwi and River Sisa in Kumasi. B.Sc. Dissertation. Submitted ; May 2012.

28. The effects of environmental management as a means of controlling the prevalence of malaria in the Ejisu-juaben District. B.Sc. Dissertation. Submitted ; April 2012. **National Health Service sponsored project work.**

29. The extraction and analysis oils from different varieties of mangoes (*Mangifera indica* (L) Walp). B.Sc. Dissertation. KNUST. Submitted ; May 2011.

30. The prevalence and intensity of urinary schistosomiasis in Weweso Basic school children Kumasi. B.Sc. Dissertation. Submitted ; May 2011.

31. Assessing the growth of tomato plants under urine and water irrigations. B.Sc. Dissertation. KNUST. Submitted ; April, 2010.

32. Evaluation of heavy metals in some spices sold at the Kumasi Central Markets. B.Sc. Dissertation. KNUST. Submitted ;April, 2010.

33. Effects of altitudes on plant regeneration and diversity along the lower South Kwahu ridge. B.Sc. Dissertation. KNUST. Submitted ; April, 2010.

34. The distribution and species diversity of macro-invertebrates of the Wiwi River along the KNUST campus. B.Sc. Dissertation. KNUST. Submitted ; April, 2010.

35. The effects of water deficit on the growth of a local variety of maize; *Zea may* (L). var. “Obaatanpa”. B.Sc. Dissertation. KNUST. Submitted; April, 2009.

36. Effects of water stress on the growth and fruit yields of *Vigna* *unquiculata* (L). Sesqui-pedalis. B.Sc. Dissertation. KNUST. Submitted; April, 2009.