

CURRICULUM VITAE



Name: Dr. Gladys Muthochi Gathuru

Department/Unit/Section: Environmental Sciences and Education

Position: Chairperson and Lecturer

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Contact Address: Kenyatta University,

Department of Environmental Sciences and Education

P.O Box 43844 - 00100. Nairobi, KENYA

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Area of Specialization:

Environmental Rehabilitation, Natural Resources, Mineral Exploitation and Mining, Hydrogeology, Geostatistics, Remote Sensing and GIS, Earth Sciences.

Research Interests :

Climate change, Research Methods, Solid waste management, Environmental Statistics, Geoconservation, Geoethics and Geomedicine.

1.1. a) Academic Qualifications

- **2011:** PhD in Environmental Studies, Kenyatta University
- **1991:** MSc (Mineral Exploration) – Imperial College of Science, Medicine and Technology, University of London, UK
- **1991:** Diploma of the Imperial College of Science, Technology and Medicine, U.K
- **1981:** Bachelor of Science(Honors) – University of Nairobi, Kenya

b) Professional Qualifications

- **2016:** Certificate in Beyond Management to Leadership: A Transformative Leadership Programme.
- **2015:** Completed a course in Student Training for Entrepreneurial Promotion
- **2014:** Completed the basic course in ArcGIS and Remote Sensing.
- **2013:** Completed a course in Teaching Methodology
- **2000:** Certificate in Computer Geological Data Management, Brussels, Belgium.

1.2 Employment History

- **2011 to date:** Lecturer, Department of Environmental Science, Kenyatta University.
Duties and Responsibilities
 - Teaching undergraduate and postgraduate students
 - Supervising undergraduate, and postgraduate students

- Academic Advisor
 - Internal Examiner for PhD and Master's thesis
 - Attending students thesis defenses
- **1999 to 2010:** Assistant Lecturer, Department of Environmental Science, Kenyatta University.

Duties and Responsibilities

- Teaching several undergraduate courses
 - Undertaking my PhD Research
 - Supervising Undergraduate projects
 - Undertaking developmental and research projects
- **1986 to 1998:** Senior lecturer, Department of Applied Sciences, Kenya Polytechnic.

Duties and Responsibilities

- Lecturer in the following subjects - Environmental Studies, Physical and structural geology, hydrogeology, petrology, economic geology, geostatistics, photogeology, remote sensing, field mapping, mathematics and statistics.
 - Responsible for practicals in the above named subjects
 - Development and equipping of the earth science laboratory.
 - Co-coordinator of the earth science course involving: convening advisory panels with staff members of the geology department of Kenya Polytechnic, Nairobi University and Government ministries.
 - Supervision of student projects which involve field and laboratory work.
 - Coordinated a team which developed the current syllabus for the Diploma Course in earth science.
 - Examiner-In-Charge for the Kenya National Examination Council (KNEC) for the past four years.

- **1981- 1986:** Geologist with Ministry of Water Development, Geology Section and Lecturer, Ministry of Water training School.

Duties and Responsibilities:

- Carrying out hydrogeological surveys for groundwater using geological and geophysical methods in the following areas: Isiolo, Garissa , Turkana, Kitui, Nyeri, Kakamega and Lamu in Kenya
 - Training groundwater inspectors and field technicians.

1.2 RESEARCH PUBLICATIONS

1.2.1 Refereed journal papers

- Paul Omonge, Mathew Herrnegger , **Gladys Gathuru** , Josef Fürst and Luke Olang. Impact of development and management options on water resources of the upper Mara River Basin of Kenya. *Water and Environment Journal / Volume 34, Issue 4 / p. 664 – 655. First published: 02 March 2020. <https://doi.org/10.1111/wej.12554>*
- Morris W. Mathenge, **Dr. Gladys M. Gathuru** and Dr. Esther L. Kitur. Spatial-Temporal Variation of Groundwater Recharge from Precipitation in the Stony Athi Sub-Catchment, Kenya. *International Journal of Environmental Sciences* ISSN 2519-5549 (online) Vol.3, Issue 1, No.2. pp 21 - 41, 2020 www.iprjb
- Liliane Mukundente, Ezekiel Ndunda & **Gladys Gathuru**. Socio-economic and institutional factors affecting smallholders farmers to adopt agroforestry practices in southern province of Rwanda. *International Journal of Agricultural Science and Food Technology*. June 2020 ISSN: 2455–815X. DOI :<https://dx.doi.org/10.17352/ijasft>
- Mathenge, M.W., **Gathuru G. M.** and Kitur, E.L. Spatial-Temporal Land Use and Land Cover Changes in the Stony Athi Sub-Catchment, Kenya. *IOSR Journal of Applied Geology and Geophysics*. e-ISSN: 2321-0990, p-ISSN: 2321-0982. VOLUME 7, Issue 5 Ser. II (Sep. – Oct. 2019), PP 43-49. www.iosrjournals.org
- Liliane Mukundente, Ezekiel Ndunda & **Gladys Gathuru**. Agroforestry Technologies Adopted By Smallholder Farmers in Southern Province of Rwanda. *East African Journal of Forestry & Agroforestry*, 4(1), 2019 ejfa.eanso.org. Volume 4, Issue 1, 2019 ISSN: 1346-5637
- Odhiambo Nicodemus Osoro, Paul Obade and **Gladys Gathuru**. Anthropogenic Impacts on Land Use and Land Cover Change in Ombeyi wetland, Kisumu County, Kenya. *International Journal of Regional Development* ISSN 2373-9851 2019, Vol. 6, No. 157
- Musa Cheruiyot, **Gladys Gathuru**, James Koske and Reuben Soy. Land Cover Changes in the Malewa River Basin, Kenya. *Journal of Environmental Science and Engineering A* 8 (2019) 90-106 doi:10.17265/2162-5298/2019.03.002
- **Gladys Muthochi Gathuru**, Peter Mwakio Tole, Stephen Obiero Anyango. The Performance of *Acacia Xanthophloea*, *Schinus Molle*, *Casuarina Equisetifolia* and *Grevillea Robusta* in the Rehabilitation of a Limestone Quarry at East African Portland Cement Factory, Athi River, Kenya. *Geo-Eco-Marina - No.23 / 2017* ISSN:2248–2776 ISSN-L: 1224–6808
- **G. Gathuru**, The Effect of Tree Species on the Chemical Properties of soil in the Rehabilitation of a Limestone Quarry at Athi River, Kenya. *Journal of Environmental Science and Engineering A* 6 (2017) 178-187 doi:10.17265/2162-5298/2017.04.002.
- Mwanzia Tabitha Nzula, **Gathuru Gladys** and Kitur Esther. Physico-Chemical Effects of Sand Harvesting on Water Quality in River Thwake Machakos County, Kenya. *International Journal of Scientific and Research Publications*, doi.org/10.29322/IJSRP.8.9.2018.p8197
- Musa Cheruiyot, **Gladys Gathuru** and James Koske. Quantity and Trends in Streamflows of the Malewa River Basin, Kenya. *Journal of Environmental Science and Engineering B* 7 (2018) 18-

27 doi:10.17265/2162-5263/2018.01.003

- Otieno AA, Kitur EL and **Gathuru G**, Physico-Chemical Properties of River Kisat, Lake Victoria Catchment, Kisumu Count, Kenya. *Environ Pollut Climate Change* 2017, 1:4 DOI: 10.4172/2573-45X.1000137
- Manohar S, Mang'oka J. M, Ndunda E and **Gathuru G**. Assessment of Yatta Canal Water Quality for Irrigation, Machakos County, Kenya. *J Environ Anal Toxicol* 2017, 7:1 DOI: 10.4172/2161-0525.1000423
- A.O Mazira, C.M. Nguta and **G. Gathuru**. Determination of Zn, Pb, Cu, Fe Concentrations in underground water, Lake Water and Soils in Macalder-mines, Migori District. Kenya Sc., *Technology and Innovation Journal* ISSN: 2079 - 5440, p-ISSN: 19 - 37. Vol. 4 and 5 (2016)
- C.M Nguta, N. Kitaka, K.B. Onyiego and **G. Gathuru**, Levels of Selected Heavy Metals in Soils, Water, Animal Tissues and Plants around Fluospar Factory, Kerio Valley Kenya. Kenya Science, *Technology and Innovation Journal* ISSN: 2079 - 5440, p-ISSN: 40 - 46. Vol. 2 (2011)

1.2.2 Other Publications

Reviewed Conference Paper

- Paul Omenge, Edgar Ngeno, Mathew Herrnegger, Joseph Fürst, **Gladys Gathuru**, Luke Olang (2014). **Assessment of Water Sources in the Nyangores sub catchment of the Mara River Basin**. Presented at the 6th International Conference on Appropriate Technology “Appropriate Technology for the 21st Century: Technological Innovation to Empower Africa ” held on 25th – 29th November, 2014 at Kenya Kenyatta University Conference Center, Nairobi, Kenya
- Kipchumba C.M., **Gathuru G**. and Koske J. and Soy R. **Land cover changes in the Malewa River Basin, Kenya**. Presented at the 5th KEFRI Scientific Conference held on 17th – 19th April, 2018 at KEFRI Headquarters, Muguga, Kenya.
- Kipchumba C.M., **Gathuru G**. and Koske J. **Predicting Landscape Changes of the Malewa River Basin, Kenya Under Different Development Scenarios**. Presented at the 5th KEFRI Scientific Conference held on 17th – 19th April, 2018 at KEFRI Headquarters, Muguga, Kenya.
- Musa Cheruiyot, **Gladys Gathuru** and James Koske.: **Land Cover Changes and its Effects on Streamflows in the Malewa River Basin, Kenya**. Presented at the 5th KEFRI Scientific Conference held on 17th – 19th April, 2018 at KEFRI Headquarters, Muguga, Kenya.

Non - Reviewed Conference Paper

- **G. Gathuru**: Presented a Paper on: **The Effect of Tree Species on The Soil's Organic Matter and Moisture Content in a Limestone Mining Quarry, Kenya** - at the 1st International Congress on Geosciences “Earth Sciences for Society” 9th CAAW – 2nd AIC – 3rd ICGAME. Held in El Jadida, Morocco on 20th to 24th of March, 2018.
- **G. Gathuru**, P. M. Tole, S. O. Anyango: Presented a paper on: **The Performance of *Acacia***

Xanthophloea, *Schinus Molle*, *Casuarina Equisetifolia* and *Grevillea Robusta* in the Rehabilitation of a Limestone Quarry at East African Portland Cement Factory, Athi River, Kenya – At the 8th Conference of the Association of African Women in Geosciences (AAWG). Held in Sibiu, Romania, 1st – 7th of October, 2016.

- **POSTERS:** Macharia, N. A Magoma, C. N., **Gathuru, G.** Njoroge, H., Otieno, A., Wanjiku, S., Amani, G: **Land Cover and Land USE DYNAMICS around Ondiri Swamp: An Ideal Model of Surface Water – Groundwater Interaction:** Presented at the Global Sustainable Blue Economic Conference – Blue Economic and the 2030 Agenda for Sustainable Development. Held at Kenyatta International Conference Centre (KICC) on 26th and 27th November, 2018.

Scholarly Presentations at Conferences

- **G. Gathuru:** Presented a Paper on: **The Effect of Tree Species on The Soil’s Organic Matter and Moisture Content in a Limestone Mining Quarry, Kenya** - at the 1st International Congress on Geosciences “Earth Sciences for Society” 9th CAAW – 2nd AIC – 3rd ICGAME. Held in El Jadida, Morocco on 20th to 24th of March, 2018.
- **G. Gathuru, P. M. Tole, S. O. Anyango:** Presented a paper on: **The Performance of *Acacia Xanthophloea*, *Schinus Molle*, *Casuarina Equisetifolia* and *Grevillea Robusta* in the Rehabilitation of a Limestone Quarry at East African Portland Cement Factory, Athi River, Kenya** – At the 8th Conference of the Association of African Women in Geosciences (AAWG). Held in Sibiu, Romania, 1st – 7th of October, 2016.

1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

Training in higher education teaching since the last appointment or promotion.

- Awareness training on ISO 27001, Information Security Management Systems (ISMS) at Kenyatta University, Nairobi, Kenya, on the 29th May, 2018.
- Training on Sensitization in Leadership and Integrity Act, 2012, held by the Ethics and Anti-Corruption Commission at Kenyatta University on 9th June, 2017.
- Training Course on Risk Based Thinking (based on ISO 9001:2015), held at Kenyatta University, Nairobi, Kenya, on the 8th May, 2017.
- Training of Trainers on “System Theory and Higher Education Didactics” held at Kenyatta University, 24th to 28th April 2017.
- Certificate in Beyond Management to Leadership: A Transformative Leadership Programme (2016)
- Training in the Post COP21 Climate Change Symposium, at Kenyatta University, Nairobi, Kenya, 26th April 2016.
- Training course in Student Training for Entrepreneurial Promotion (STEP) for Training

as a Trainer, held at Kenyatta University, Nairobi, Kenya, from 7th September, 2015 to 9th September 2015.

- Completed the basic course in ArcGIS and Remote Sensing (2014) held at Kenyatta University, Environmental Science Computer Laboratory Nairobi, Kenya, Introduction to ArcGIS from 7th July 2014 to 11th July, 2014; Advanced/Applied ArcGIS from 22nd September, 2014 to 26th September, 2014
- Completed a course in Teaching Methodology held at Kenyatta University, Nairobi, Kenya, between 28th May, 2013 and 14th November 2013.

Post-graduate supervision

PhD Supervision: ONGOING

- **MORRIS WAHOME MATHENGE N85/31028/2015** Influence of Land Use/Land Cover Change on Groundwater in the Isinya Catchment, Kajiado County, Kenya. **SUBMITTED FOR EXAMINATION**
- **RUTH GATHONI MBUGUA - Q97/29430/2014:** Outcomes of **treatment** in Prostate cancer patients undergoing various modes of treatment at Kenyatta National Hospital, Kenya

Masters Supervision: ONGOING

- **KANYARU SAVINA MBURA – N50/CE/20730/12:** Physio-Chemical Characteristics of Ground Water in Kamanyaki Location, Tharaka Nithi County, Kenya. - **SUSSESSFULLY DEFENDED**
- **CHANGARA ABRAHAM ODARI – N50/CTY/PT/24878/2011:** Coping Strategies for Climate Variability by Smallholder Dairy Farmers in Nyandarua County, Kenya. **SUBMITTED FOR EXAMINATION**
- **BETH WAITHERA NJIRAINI - N50/CTY/PT/20715/2012:** Groundwater Quality in Kawangware Location, Nairobi City County, Kenya.
- **TABITHA MWANZIA - 50/CTY/PT/24984/2012:** Socio-Economic and Physiographic Environmental Impacts of Sand Harvesting in Kangundo, Machakos County, Kenya
- **TOM OSEWE OGALO - N50/CTY/PT/20715/2012:** Assessment of Ecological Footprint of A Rural Community in Kenya, Using The National Footprint Accounting Method, Homa Bay
- **SANGA KIPRONO SILAS - N50/CE/13982/2009:** Impacts of Petroleum Contamination on the Chemical Characteristics of Soil and Ground Water Quality: Case Study of Mombasa Joint Terminal, Changamwe.
- **KAMAU ELIZABETH – N50/CTY/PT/28674/14:** Delineation of Leachate Leaking Points and Migration Pathways from Sewerage Plant, Nakuru County, Kenya.
- **KINYUA MAUREEN MUTHONI – N50/CTY/PT/28270/2013:** Effects of

Quarrying Activities on Human Health and Natural Environment in Mbeere, Embu County, Kenya.

Successful supervision

- **CHERUIYOT MUSA KIPCHUMBA N85/24130/2011:**
Landscape Restoration and Environmental Flow Scenarios of the Malewa River Basin, Kenya.
Graduation, held On December 2020
- **OMONGE PAUL - N50/2134/2012:**
Simulation of Water Resource Use and Allocation in Nyangores Sub-Catchment of the Upper Mara River Basin.
41st Graduation, held On December 2016
- **BRUCE MUSONI - N50EA/27059/2014:**
Impacts of Solid Wastes on Groundwater Quality in Dandora, Nairobi County, Kenya.
41st Graduation, Held On December 2016
- **ERNEST OYIEKO NYANDWARO - N50/8852/99:**
Solid Waste Dumping in a high moisture Environment and Leachate quality challenge on water resources in Kisii Municipality, Kenya –
Held On December 2017
- **THOMAS LEMNG'OLE - N50/CE/13982/2009:** Impacts of Climate Change and Modifying Influences on the East Coast Fever Prevalence in Alale North District. 36th Graduation, held on 3rd June 2014
- **GITAU JAMES KINYUA - N50/CTY/PT/24485/11:** Effectiveness of Natural Wetland in Waste Water Treatment: A Case Study of Tibia Wetland Limuru Municipality. 36th Graduation, held on 3rd June 2014
- **JOHN N. MUTURI - N50/CE/11396/2008:** Environmental Degradation and Health Risks Associated with Wastes at Thika Municipal slaughterhouse, Kiambu County, Kenya. 36th Graduation, held on 3rd June 2014
- **THOMAS LEMNG'OLE - N50/CE/13982/2009:** Impacts of Climate Change and Modifying Influences on the East Coast Fever Prevalence in Alale North District. 36th Graduation, held on 3rd June 2014
- **GITAU JAMES KINYUA - N50/CTY/PT/24485/11:** Effectiveness of Natural Wetland in Waste Water Treatment: A Case Study of Tibia Wetland Limuru Municipality. 36th Graduation, held on 3rd June 2014
- **JOHN N. MUTURI - N50/CE/11396/2008:** Environmental Degradation and Health Risks Associated with Wastes at Thika Municipal slaughterhouse, Kiambu County, Kenya. 36th Graduation, held on 3rd June 2014
- **KINYANJUI JOSEPH NGERA - N50/11393/2008:** Challenges and

Opportunities' of Inorganic Solid Waste Reuse and Recycling Systems in Thika Kenya. 37th Graduation, Held on 19th December 2014

- **THOMAS OWINO JUMA - N50/CE/11412/2008:** The Impacts of Dumpsite and Domestic Waste Leachate on Groundwater Quality within Kilifi Town in Kilifi County, Kenya. 38th Graduation, held on June 2015
- **MBUGUA PAUL KARANJA - N50/CTY/PT/23012/2011:** Suitability of Waste Water Sludge for Agricultural Use with Respect to Heavy Metals: Ruai Sewage Treatment Plant, Nairobi County. 38th Graduation, held on June 2015.
- **MUGUN KIBIWOTT KIPCHUMBA - 50/CTY/PT/24604/10:** Comparative Study of the Levels of Nutrients and Cadmium Contamination in Shallow Wells in Koitor Location, Gishu County, Kenya. 38th Graduation, held on June 2015.
- **JESSICA E. N. MUKIRI - N50/CTY/PT/2564/2012:** Evaluation of Economic and Ecological Potential of Indigenous Bamboo in Kiambu County, Kenya. 39th Graduation, Held On December 2015
- **JENNIFER ATIENO HALWANGE - N50/CTY/PT/24874/11:** Occupational Health Risks of Crushed Stones Dust to the Quarry Workers in Kajiado County, Kenya. 39th Graduation, Held On December 2015
- **LAVENDER ALWAKA ONDERE - N50/CTY/PT/24879/2012:** Spatio – Tempora Changes of Land Cover Types in Response to Anthropogenic and Ecological Dynamics in Yala Swamp Wetlands, Kenya. 40th Graduation, Held On July 2016
- **MOLVEN ATHIAMBO BINGO - N50/CE/23023/2011:** Impact of Sand Harvesting on the Nyamasaria Riparian Land, Kisumu County. 41st Graduation, Held On December 2016
- **OTIENO ANNA ODOYO - N50/CTY/PT/21997/2012:** Planktonic Diatom as Indicators of Water Quality of River Kisat (Lake Victoria Catchment), Kenya. 41st Graduation, Held On December 2016.

1.4 PROFESSIONAL / CONSULTING

- **2013 to date:** Collaboration between Kenyatta University and National Oil Corporation (NOC) – (*Networking and collaborating in research and development of new programmes*)
The two institutions were seeking partnership on areas of capacity building and research in the face of the recent hydrocarbon discoveries in Kenya.
- **2013 to date:** Scientific Cooperation GlobeE: Wetlands Project (*Networking and collaborating in research and development projects, student supervision*).
As a Cooperation I jointly supervised one student who was sponsored by GlobeE: Wetlands Project and has now successfully defended his thesis and is waiting graduation.
- Kenya Agricultural Research Institute (KARI) – 2000 to date (*Networking and*

collaboration in research and development projects, students supervision)

- **2018:** Academic Collaboration with Kogi State University, Anyigba, Nigeria - (*Networking and collaborating in research and development of new programmes*). Currently working with the Department of Earth Sciences with the hope of starting a new course in Earth Sciences for the Department of Environmental Sciences.

Being a referee for professional periodical or being an invited member of an editorial board.

Invited as a member of editorial board for Premier Publishers—
www.premierpublishers.org

**Consulting for external academic /professional organizations
/ Institutions**

2006 to 2012: Involved in developing of the laboratories and workshops for the Mining and Mineral Processing Programme at Jomo Kenyatta University of Agriculture and Technology (JKUAT) for the department of Mechanical Engineering.

Membership to academic / professional bodies

- **2015 to date:** Member, Association of African Women Geoscientists (AAWG)
The objectives and purposes of the Association are to:
 - Highlight and seek solutions to problems faced specifically by women and grassroots communities in Africa in the area of geosciences.
 - Promote the advancement of scientific and technological research and discoveries and promote public understanding of the role of geosciences in Africa's development.
- **2000 to date:** Geological Society of Kenya.
- 2012 to date: Examiner-In-Charge for Technical Examinations with the Kenya National Examinations Council(KNEC)
- **2013 to date:** PhD and Master's Thesis Internal Examiner for Kenyatta University.

1.5 ADMINISTRATION AND RESPONSIBILITIES

Recognised university administrative positions

i. Chairperson of a Department

- **1st October 2018 to Date:** Appointed as the new Chairperson, for the **Department of Environmental Science and Education**. This Department was established after the merging of Department of Environmental Sciences and the Department of Environmental Education.

- **24th August 2017 to 1st October 2018:** Renewal Chairperson for the Department of Environmental Sciences.
- **24th August 2015:** Appointed Chairman, Department of Environmental Sciences.

ii. Chairperson of a University / Departmental / School / College / Campus Committee

- Chairperson of the Departmental Curriculum Review Committee (2013)

iii. Membership of Senate or University Boards / Committee

- Member of the organizing committee for the 6th African Regional Centre of Expertise(RCE) Conference held from 23rd – 26th August, 2016
- Member of the Infrastructure Development Proposal Committee for purpose of construction of laboratories, lecture halls and purchase of equipment for the School of Agriculture (2014)
- Member of the planning committee for the Regional Centre of Expertise Greater Nairobi Global Conference held in November, 2013.
- Member of the organizing committee for the 1st ESRI Education user Africa Conference. 2013

iv. Membership of Departmental / School / College / Campus level Committee

- Member of the School committee for organizing ESRI Eastern Africa Education User Conference (2013)
- Chairperson and Member of the Departmental Curriculum review committee(2013)
- Member of the Departmental committee for the development of the new PhD programme by course work(2018)

v. Other responsibilities in the University

- Departmental Time-Tabler (2012/2013 Academic year)
- Academic Advisor (2012/2013 Academic year)
- Initiating new academic programmes in the department or School.

As Chairman of the Department of Environmental Science, undertook a comprehensive revision of the Undergraduate Curriculum to include newer more marketable courses and currently overseeing the establishment of PhD Programme by course work.

1.6 COMMUNITY ENGAGEMENT AND OTHER CONTRIBUTIONS

i. Attracting Research and Development Funding.

- Awarded Kshs 720, 000/= Research Grant by Vice-Chancellor, Kenyatta University. The project draws a collaboration of consortium departments to develop teaching kits to help support the development of effective teaching and learning of geosciences (2017).
- Research Team Member that wrote the proposal for the 4th Competitive Research Grant for the Science, Technology and Innovations (ST&I) Grant – National Council for Science and Technology (2011-2012).
- Member of a team that worked to develop a proposal for the University concessional credit line by the French Development Agency (AFD) to finance on going and new University infrastructure in strategic faculties (2014).

ii. **Community Service and Outreach**

- **Member of school board: 2016 to Date** - Appointed as a Chairperson / Member of Board of Management of Kanaani primary School and also the Kanaani Secondary School which we started in January 2018 in Makueni County.
- **Community based projects:** Student Training for Entrepreneurial Promotion (STEP) – Implementation Plan in Mombasa, Nakuru and Kisumu Counties. Empowering the youth in the community to be self-employed and start up small businesses. The project is key in the university's Outreach & Community Service Programs and also contributes to the marketing of the University's image to the general populace (2016 – 2017)
- **2011 to Date:** Member of Hazina Women of Grace, South B. Main objective is to mentor the youth within the estate and to maintain a clean environmental.
- **2000 to date:** Departmental nominee for Kenyatta University Community Outreach and Extension programme.
- **2000 to date:** Member of St Clare Jumuaia, at St Margaret Catholic Church, South B. Apart from spiritual aspect we are also involved with community work with the surrounding community mainly Mukuru slums.

ii. **Recognition, Awards and Honours**

- Certificate of Merit for good performance as the BOM Chairperson for Zonal Education Day/Activities Award Kiboko Education Office – Makindu Sub County (2017).
- Student Training for Entrepreneurial Promotion – Implementation Plan in Kisumu County, January to March 2017.
- Student Training for Entrepreneurial Promotion – Implementation Plan in Nakuru County, July 2016.
- Student Training for Entrepreneurial Promotion – Implementation Plan at KNATCOM in Mombasa County, 2nd and 3rd February 2016.

iii. **Invited to a conference as a guest speaker/discussant**

- **Moderator and discussant** for the Debate on Sustainable Management in Kenya. The objectives of this debate was to stimulate discussions on the status and challenges of sustainable management in Kenya and its role in policy making in Kenya. Held on 21st February, 2017.
- **Invited as a guest speaker** at Base Titanium Mining Company, Ukunda in Mombasa, for Graduate Presentation for the first group of graduate trainees (2015).
- **Motivational Speaker.** Invited as a Guest and Motivational Speaker at Betsam Junior School prize giving day (2015).
- **Developing Programmes external to Kenyatta University.** Part of the team that developed the current degree programme in the Department of Mining and Mineral Processing Engineering at Jomo Kenyatta University of Agriculture and Technology. 2006 – 2012.