

CURRICULUM VITAE

Samuel Mungai Mbuguah

Box 2751,00200 Nairobi , Tel 0717176356 or 0733892383

Email mbumu@yahoo.com and smbugua@kibu.ac.ke

County of Birth Nakuru

Objective: To contribute to the advancement of knowledge in the area of Information Technology (IT) and Computer Science.

Key Personal attributes: Integrity, authentic, logical, foresight, optimistic, team player, analytical, problem solver and original/ independent thinker.

Working Experience

17th March 2021- Present Kibabii University

Bungoma

Associate Professor/Director Planning and Organization Performance

- Directing the operation of the directorate which among other things handles Performance Contracting
- Ensuring that Quota PC reports are received and sent to external bodies where necessary
- Ensuring PC self-assessment matrix has been filled and sent via the VC to the line Ministry
- Developing the PC for University Council and ensuring it's cascaded downwards to the member of staff.
- Developed three ISO procedures for Directorate of Planning and Organization Performance
- Attended a workshop in Digital Forensic
- Teaching and Supervising both Undergraduate and Post graduate students
- Represented the DVC(PPRI) during the 5th Graduation ceremony
- Chair of publicity and entertainment committee during the preparation of the 5th graduation
- Performing the duties of DVC PPRI form 28th May 2023 to 17th June 2023
- Performing the duties of DVC PPRI form 10th March 2023 to 17th March 2023
- Performing the duties of DVC AFD form 16th January 2023 to 18th January 2023
- Performed the duties of DVC PPRI from 11th April 2022 to 29th April 2022 and from 17th May to 20th May 2022
- Performed the duties of DVC PPRI from 22nd February 2021 to 25th February 2022
- Performed the duties of DVC PPRI from 29th March 2021 to 9th April 2021 and from 26th November to 29th November 2021
- Appointed chair of for a team reviewing the following policies (i) Graduate Assistant Policy (ii) webometric policy (iii) Library information communication policy (iv) University Performance Policy.
- Appointed chair of team reviewing the Research and Consultancy policy

- Chaired a meeting on Capital Development Projects on behalf of the DVC PPRI
- Chaired a meeting of Research consultancy and extension committee on behalf of the DVC(PPRI)
- Completed a five weeks course on blended learning by Common wealth of opening learning
- Participated on induction of new staff on 29th March 2021 where a represented the Division of PPRI and chaired two sessions
- I was a member of technical committee preparing for KIBU virtual Conference
- An assessor for candidates applying for Chartered Engineering status for the Engineering Council.
- A member of various adhoc committees and standing committees
- Attended seminars of PC related activities.
- Attended a Seminar on Gender Mainstreaming.
- Attended workshop on Gender Mainstreaming for Kibabii UMB/Senate Members
- Part of team organizing for ICT convention meeting taking place in Kibabii University in 15th of December 2015,
- Completed a course on Strategic Leadership Development Program conducted by the Kenya School of Government.
- Appointed as external examiner for JOOUST
- Chair procurement planning Committee 2022/2023 FY
- Chair Kibabii University Master Plan 2022-2027 Steering Committee where a draft Master plan is in place.
- Chair Kibabii University Strategic plan 2023-2027 Steering Committee where a draft is in place.
- A member of Kibabii University Research Crack team
- Trained as an auditor for ISMS ISO: 27001:2013 standards.
- A member of adhoc committee that prepared the Annual report and Financial report of the FY 2021/2022
- Appointed as a Science Technology and Innovation Champion.
- Performed the duties of DVC(AFD) Thursday 6th May to Friday May 2021
- A member of adhoc committee reviewing the University statutes
- A participant for international development program (IFDP) at Chandigarh University in India from 3rd July 2023 to 11th July 2023
- Organized and Presented in the KIBU 2023-2027 Strategic Plan Stakeholders validation workshop.
- Represented the Vice Chancellor in Lake Victoria region water board 2023 -2027 stakeholder workshop.
- Part of team negotiating with members of County Government of Bungoma on a memorandum of understanding on their use of Data Centre and Video conferencing Lab, which makes the NRF funded project self-sustaining.

- I was awarded a certificate of recognition for being nominated by my school for Researcher of the year award.

1st Nov 2020 –16st March 2021 Kibabii University

Bungoma

Associate Professor/Ag. Dean SCAI

- Being academic and administrative head of School of Computing and Informatics
- Representing the SCAI in Senate and Deans Committee
- Chair of publicity and Entertainment Committee for forthcoming graduation
- Present marks for the graduating Class and others students to Senate Board of Examiners
- Performed the duties of the of DVC(PPRI) for two days 18th to 19th February 2021
- Supported the Program leader during the CUE site visit on the MSc In Digital Forensic Program
- Participated for online defence for MSC candidate from Muranga University as external examiner
- Participated for Online defence for MSC candidate from Mount Kenya University
- Assessed two candidates applying for Chartered Engineering status for the Engineering Council.
- Nominated as the chair of KIBUA electoral commission
- Continued being an external examiner MMUST,ALUPE and Laikipia Universities
- Performed the duties of DVC(AFD) From 19th to 20th November 2020
- Performed the duties of DVC(ASA) on Friday 13th November 2020
- Member of the Adhoc Committee for Honorary degree citation
- Chair on adhoc committee to align Endowment policy
- Performed duties of DVC(AFD) from 28th January to 10th February 2021
- Performed the duties of DVC(ASA) from 26th to 27th November 2020
- Appointed as an Integrity assurance officer whose mandate is to sensitise UMB and Senate on Corruption on Integrity issues
- Completed a month course on system vulnerability and penetration testing
- Participated in re- assessment for suitability of retention of Kibabii University Charter by CUE.
- Program leader for BSc Computer Science and MSc In Computer Science.

2019-Nov 2020 Kibabii University

Bungoma

Associate Professor / Director ICT

- Teaching and Supervising Post graduate and Undergraduate students and heading the Directorate of ICT
- Programme Leader MSc in Computer Science

- Chairman NRF Project Implementation Committee in the establishment of Data Centre, Mobile Computing laboratory and Video conference, Cisco Lab and Digital Forensic
- Performed the Duties of Vice Chancellor for three days in March 2020
- An assessor for candidates applying for Chartered Engineering status for the Engineering Council.
- A Member of the Debt Management committee
- A Member of the COVID- 19 Response Committee
- Member of Committee that prepared for public lecture and Book Launch by the Vice Chancellor
- Performed the duties of DVC(AFD) from 12th October to 23rd October 2020
- Member of the Job Description Committee and prepare the JD for ICT staff
- An ISO Auditor and ISMS Auditor
- Participated in Audit of marks for Graduating Class.
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2016-2019

Kibabii University

Bungoma

Senior Lecturer/ Director ICT

- Teaching and Supervising post graduate and undergraduate students and heading the Directorate of ICT
- Attended one day training on negotiation by FKE
- Chair of a sessions in the in past three International Conference held at Kibabii University
- An external Examiner in Laikipia University
- An external Examiner in Alupe University College
- An external Examiner in MasindeMuliro University of Science and Technology U
- Chaired a adhoc committee investigating the cause student rioting in the University
- A Member of various committees in the University including (Senate,UMB, ICT)
- Chair ICT Board
- An ISO Auditor
- Attended a training on research proposal writing
- Chair Kibabii University Election Commission During the 2018students elections
- Project Manager for CCTV installation implementation committee
- Project manager ERP implementation
- Lead in ISMS implementation
- Chair KEC during the 2019 students election
- Attended a workshop on ODEL
- Attended training by ICT authority (ICTA) on ICT standards
- Performed the duties of Deputy Vice Chancellor (ASA) on various occasions.
- Performed the duties of Deputy Vice Chancellor(AFD) for five days
- Have been external reviewer for Enterprise Computing curriculum for certificate, Diploma and Degree for Mount Kenya University.

- Program leader in MSc IT
- Convener for MSc Computer Forensic and Security
- A mace bearer during the 2017 graduation

2013-February 2016 Kibabii University

Bungoma

Lecturer / Director ICT

- Teaching Undergraduates Computer Science & IT Units
- Teaching post graduate students in Information Technology.
- Heading the Directorate of ICT in the University[leading a team of ICT experts, developing policy, developing work plan, developing budget and ensuring the development ICT infrastructure, ICT services and Website are available)
- A member of University Management Board
- Chairman Webometric Committee and Procurement Committee
- A member various other committee of the University
- Attended and facilitated workshops and seminars
- Supervising post graduate students
- Chairman school post graduate Committee
- Project Manager ERP implementation
- Attended one week workshop on integrity assurance officers

2008-2013

Masinde Muliro Uni. of Science and Technology Kakamega

Assistant Lecturer

- Teaching Undergraduates Computer Science &IT Units also taught Digital Animation to Journalism students.
- Teaching post graduate students in Information Technology.
- Supervising undergraduate and post graduate students.
- Fourth year project coordinator.
- Industrial attachment coordinator.
- Quality assurance coordinator.
- Program Coordinator Computer Science
- Program Coordinator SOLACE
- Acted as chairman of Department.
- Acted as director of ICT.
- Participated and coordinated workshops and seminars.
- Funded by the University to conduct research in E-Voting.
- Produced two draft student handbooks in Computer application & Digital electronics and Microprocessors.
- Published a report on the research findings on E-Voting debate in Kenya from *MMUST University research funds.*

- Presented my PhD research finding and Progress at PhD seminar held on November 2012 and March 2013 at MMUST.
- Attended a half day seminar on NCST funded research in February 2013.

2004-2009 Jomo Kenyatta University of Agriculture and Technology Juja

Part Time Lecturer

- Taught various units to undergraduate students.
- Taught post graduates students' System Engineering and Quality and IT strategies.

1993 – 2008 NYS Engineering Institute Nairobi

Ag Head of Department/Lecturer

- Incharge of the departmental budget.
- Incharge of training function of department.
- Increased the programs offered in department from 1 to 4.(Telecommunication Engineering, Electronic engineering, Computer Science and Information Technology).
- Achieved more the 80% pass rate in units taught.
- Developed training material handbooks in Control Engineering and Digital Electronics.
- Achieved 100% student attachment placement which me be recognised and sponsored for a month course on emplyement promotion in Tokyo –Japan.
- Facilitated seminars and workshops include one between the College and Federation of Kenya employers and NYSEI.
- Attended a four weeks course on management which was prerequisite for promotion into job group N in the civil service.
- Attended a two weeks course on ToT/TNA at Kenya Institute of Administration now (KSG)

1988-1993 Kenya Institute of Mass and Communication Nairobi

Ag.Ast. Lecturer/Inspector (electronics)

Maintained, installed, operated and taught electronics based units. Apart from engineering students we also trained student taking Film production, Radio production, TV productions and Journalism.

Education Background:

2010-2013 Masinde Muliro Uni. of Science and Technology Kakamega

Attained a Doctor of Philosophy (PhD) In Information Technology- My research topic was Attackability metrics model for secure service oriented softwares funded by NCST.

2001- 2003 University of Sunderland UK

Attained a Master of Science in Computer based information systems.

1997-2000 Chartered Engineering Institute UK

Attained BSc (Honours) Equiv. in Electronic Engineering (ECE Part II ABC). I am a Chartered Engineer and an assessor for the same applicant towards the registration for Chartered/Integrated Engineer.

1989- 1991 Kenya Polytechnic Nairobi

Attained a Higher Diploma in Electronic Engineering.

1985-1988 Kenya Institute of Mass and Communication Nairobi

Attained a Diploma in Telecommunication Engineering.

1981-1983 Njoro High School Njoro

Attained Two principles and Two subsidiaries passes in my “A” Levels and won awards in science congress competition. A class monitor. Chairman of the photographic club

1981-1983 Njoro High School Njoro

Attained a Division one 17 points in my “O” levels. Active member of Science club and was awarded a book titled Farming as a business academic excellence and character.

Interest – In photography, community affairs, religious activities, farming and business

Professional societies- A Professional member of ACM and BCS. Also a Chartered Engineer and an assessor for Chartered Engineers under the Engineering Council United Kingdom. A Professional member of Association of Computing Professional in Kenya.

Publications, Postgraduate Supervision and thesis marking

This has been categorized into two: As Associate Professor and as Senior Lecturer/Lecturer/Ast. Lecturer.

Publications as an Associate Professor

Table 1. Summary Publications/Supervision and Thesis Marked

S/NO	Item -decryption	Number	Self-assessment publication points

1	Publications in referred journals/Books/Book chapters/ conference proceeding	21	80 points against CUE requirement of 60 points
2	Post graduate students supervised to completion	11	11 Against the CUE requirement of 5
3	Postgraduate thesis marked from various universities	36	No set number

Papers in refereed Journals

- i. Published a paper titled a Cyber-Security Vulnerability Assessment Model for County Governments in Kenya in the International Journal of Science and Research (IJSR) Volume 10 Issue 7, July 2021 Kadima Victor Chitechi, Kelvin K. Omieno, **Samuel Mbugua**
- ii. Published a paper titled Modeling User Experience with Universities Websites Based on Webometric Ranking User Analysis. *International Journal of, Computer Trends and Technology (IJCTT) – Volume6 8 Issue 4-April 2020* Adeline Mukanda #1, **Samwel Mbuguah**, Franklin Wabwoba, Aselemo Ikoha
- iii. **Published a paper titled** "Framework for Evaluation of Effectiveness of Integrated Financial Management Information Systems Architecture Implemented in Public Hospitals in Kenya.", *International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)*, Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 7 Issue 5, pp. 38-41, September-October 2020 Margaret Afwande, **Prof. Samuel Mbugua**, Juma Kilwake,
- iv. Published a paper titled “The use of personal computing devices for self-directed learning publication in *International journal of research in information Technology (IJRIT) Vol 10 issue 7 July 2021. G. Mamati. S.Mbuguah* , A. Ikoha
- v. Digital Technology Access and Use among Socially and Economically Disadvantaged Groups in Turkana County, Kenya, *Asian Journal of Social Science and Management Technology 3 (5), 44-57 J.Onunga & S. Mbugua*
- vi. Published a paper titled Modelling Usability Evaluation of Kenyan Universities Websites for Webometrics Ranking. *International Journal of, Computer Trends and Technology (IJCTT) – Volume70 Issue 2-Feb 2022* ISSN: 2231 – 2803 Adeline Mukanda , **Samwel Mbuguah** , Franklin Wabwoba
- vii. Published a paper titled Determination of User Factor Requirements for Acceptable of Biometric Voter Registration Technology *International Journal of Engineering and Applied Sciences (IJEAS)* . ISSN: 2394-3661, Volume-8, Issue-12, December 2021 Richard Kayanga Nyakundi, **Samuel Mbuguah** ,Ratemo Makiya
- viii. Published a paper titled A Model for Analyzing Usage Factors in Designing User Acceptance of Biometric Voter Registration Technology *International Journal of Engineering and Applied Sciences (IJEAS)* . ISSN: 2394-3661, Volume-8, Issue-12, December 2021 Richard Kayanga Nyakundi, **Samuel Mbuguah** ,Ratemo Makiya

- ix. Published a paper titled Software Modular Architecture: Concepts, Metrics and Trends *International Journal of Computer and Organization Trends* Volume 12 Issue 1, 3-10, Jan-Feb 2022 ISSN: 2249 – 2593 / <https://doi.org/10.14445/22492593/IJCTT-V12I1P302> © 2022 Seventh Sense Research Group® Mbugua Samuel Thaiya, Korongo Julia, **Samuel Mbugua**
- x. Published a paper titled Baseline Survey on Software and Tools for Odel and Digital Learning during and Post Covid 19 in Selected Universities in Kenya *International Journal of Computer Applications Technology and Research* Volume 11–Issue 04, 118-122, 2022, ISSN:-2319–8656 DOI:10.7753/IJCATR1104.100 **Samwel Mungai Mbuguah**, Alice Njuguna, John Makokha, Catherine Njoki, Anselmo Peter Ikoha, Alice Nambiro, Ben Nyongesa Cyrus Barasa
- xi. Published a paper titled Technology-Enabled Self-directed Learning in Developing countries: Adoption Framework *International Journal of Computer Applications Technology and Research* Volume 11–Issue 04, 98-102, 2022, ISSN:-2319–8656 DOI:10.7753/IJCATR1104.1003 G. Mamati. **S.Mbuguah** , A. Ikoha
- xii. *Published a paper titled* Baseline Survey on ICT Infrastructure for Online and Digital Learning during and Post Covid_19 in Selected Kenyan Universities Published in Asian Journal of Social Science and Management Technology [2313-7410] Vol.4,Issue.2, March-April, 2022.**Samwel Mungai Mbuguah**, Alice Njuguna, John Makokha, Catherine Njoki,
- xiii. *Published a paper titled* Webometrics User Ranking Analysis Model Development and Validation. *International Journal of Computer and Organization Trends* Volume 12 Issue 1, 37-48, Jan-Apr 2022 ISSN: 2249 – 2593 /<https://doi.org/10.14445/22492593/IJCOT-V12I1P307> Adeline Mukanda , **Samwel Mungai Mbuguah** , Franklin Wabwoba
- xiv. *Published a paper titled* A Review Paper on Application of Model-Driven Architecture in Use-Case Driven Pervasive Software Development *International Journal of Computer Trends and Technology* Volume 70 Issue 3, 19-26, March 2022 ISSN: 2231 – 2803 / <https://doi.org/10.14445/22312803/IJCTT-V70I3P104> Julia N. Korongo1 , Samuel T. Mbugua , **Samuel M. Mbuguah**
- xv. *Published a paper titled:* Remote Data Centre Monitoring System Based on the Arduino Microcontroller. *International Journal of Engineering Research and Applications*; Teresia Muthoni Mungai, Lawrence Nderu. **Samwel Mbuguah**
- xvi. *Published a paper titled:* Impact of Predictive Analytics of Big Data in Supply Chain Management on Decision-Making *International Journal of Scientific Research in Computer Sciene. Engineering and Information technology* 8 (4) July-August-2022, : 225-238ISSN : 2456-3307 (www.ijsrcseit.com) Wafula M. Patrick , Dr. Peters I. Anselemo , Dr. Richard Ronoh Prof. **Samuel Mbugua**
- xvii. Published a paper Titled. Model driven architecture; A review of Current Trends in: *International Journal of Computer Science and Mobile Applications*, Vol.11 Issue. 1, January- 2023, pg. 19-28.ISSN: 2321-8363. Jeremiah Onunga, **Samuel Mbugua**

- xviii. A paper titled "The challenges in the usability of the mobile computing devices for use among microbusinesses in Kenya" (Manuscript Number : IJSRSET229152) has been reviewed by reviewers and recommended to publish in International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET) - Isaack Wekesa. Alice Nambiro , **Samwel Mbugua**
- xix. A paper titled 'Implementation of Joint Funded ICT Infrastructure Projects for Digital Acceleration and Youth Empowerment. The Case of *NRF-Kibabii University*', successfully underwent the review process and was accepted for publication in the East African Journal of Information Technology (EAJIT) **Samwel Mbuguah**, Betty Mayeku, Yonah Etene, Juma Kilwake
- xx. A titled "Effective Approaches for Enhancing Data Management and Semantic Interoperability within the Healthcare Sector" has been accepted for publication in International Journal of Applied Research. Harriet Tsinale , **Samwel Mbuguah**, Antony Luvanda
- xxi. A paper titled 'Challenges and Opportunities of Universities - National Research Funded Projects in enhancing Digital Penetration and Economic Empowerment: The Case of Kibabii University', successfully underwent the review process and was accepted for publication in the East African Journal of Information Technology (EAJIT). Dr. Samuel Barasa, PhD. Co-Author(s): **Prof. Samwel Mbuguah**, PhD, Prof. Franklin Wabwoba, PhD, Dr. Patrick Owoche, PhD, Dorcus Shisoka & Daniel Khaoya.

University Level Books

- i. Co-authored a Digital Electronic book published by Kibabii University press ISBN: 978-9968-59-051-0 (**SM, Mbuguah R, Rono, F. Wabwoba**)
- ii. Co-authored Analogue Electronic book published by Kibabii University press ISBN: 978-9966-59-0560-2 (R. Rono, J. Mutai, **SM Mbuguah**).
- iii. Draft System Analysis design (F. Wabwoba, **SM Mbuguah**, D.A. Shisoka, Y. Etene)

Book Chapter

- i. Implementation Evaluation for ERP softwares. A case Of Kibabii University is a chapter in book Titled Metrics and Models for Evaluating the Quality and effectiveness of ERP softwares Published by IGI global ISBN 9781522576785 **S. Mbugua F. Wabwoba** and C. Wanjala

Conferences

Presented Seven (7) papers in 5th and 6th Kibabii University International Conference

- i. Digital Technology Access and use among the socially and economically disadvantaged groups in Turkana County Kenya. J. Onunga & **S. Mbugua**
- ii. The Use of Personal Computing devices in self-directed learning in public Universities in Kenya: Drivers and Challenges. M.B Godlphas , **S. Mbugua** and A.P Ikoha

- iii. Remote Data Management Systems. T.M. Mungai, L.Nderu, **S.Mbuguah** & J.Nyaata
- iv. Effective Approaches for Enhancing Data Management and Semantic Interoperability within the Healthcare Sector H, Tsinale, S. Mbuguah and A. Luvanda
- v. An Architectural Framework for Integrating Medical Data to Big Data Analytics for Semantic Interoperability. H.Tsinale, **S. Mbuguah** and A. Luvanda
- vi. Implementation of Joint Funded ICT Infrastructure Projects for Digital Acceleration and Youth Empowerment **Samwel Mbuguah**, Betty Mayeku, Yonah Etene, Juma Kilwake
- vii. Challenges and Opportunities of Universities - National Research Funded Projects in enhancing Digital Penetration and Economic Empowerment: The Case of Kibabii University Dr. Samuel Barasa 1 , **Prof. Samwel Mbuguah** 2 , Prof. Franklin Wabwoba 3 , Dr. Patrick Owoche 4 , Ms. Dorcus Shisoka 5 , Mr. Daniel Khaoya 6

Others Publications

- i. Chair in writing performance management policy.
- ii. Chair in writing the Communication Strategy Policy.
- iii. Chair in reviewing of workload policy.
- iv. Chair in adhoc committee to align endowment policy.
- v. Participated in drafting the Debt management policy.
- vi. Chair in reviewing the Research and Consultancy policy.
- vii. Chair in reviewing the webometric policy.
- viii. Chair in reviewing the graduate assistant policy.
- ix. Chair in reviewing the Library ICT policy.
- x. A member of adhoc committee developing the Planning and Organization performance policy.
- xi. A member of adhoc committee that developed the Science Technology and Innovation strategies.
- xii. Reporting on the implementation of NRF Projects to NRF through the VC.
- xiii. Position Paper on ICT infrastructure funding for Universities as a strategy to mitigate against Covid_19.
- Xiv A member of a committee reviewing Kibabii University Statues.
- Xv A member a committee reviewing Kibabii University Student hand book.
- Xvi A member of Committee reviewing Kibabii University Examination hand book.

Post Graduate Candidates Supervised to Graduations as Associate Professor

Abbreviation of Universities

- Kibabii University (KIBU)
- Masinde Muliro University of Science and Technology(MMUST)
- Muranga University of Technology MUT
- Mount Kenya University (MKU)

- Jaramogi Oginga Odinga University of Science and Technology.(JOOUST)
- Technical University of Mombasa
- Kabarak University (KU)

- (1) Samuel Barasa PhD (KIBU) - Graduated in 2019.
Thesis title; Network Performance Metrics for Transition from IPV4 to IPV6 networks
- (2) Vincent Mutochi PhD (KIBU) - Graduated in 2019
Thesis title: Modelling a Secure Security Architecture on Virtualized Environment for Small and Medium Enterprises in Kenya
- (3) Patrick Owoche PhD (KIBU) - Graduated in 2019
Thesis title: Online Hotel Branding based on the Dialogic Principles of Internet Communication
- (4) Prestone Wafula MSc(KIBU) – Graduated in 2019
Thesis title: A framework for unstructured supplementary service Data Technology for secure web-based Electronic Voting System
- (5) Margaret Afwande MSc(KIBU) - Graduated in 2019
Thesis title: Framework for Evaluation of Effectiveness of Integrated Financial Management Information System Architecture Implemented in County Referral Hospitals in Kenya
- (6) Adeline Mukanda MSc (KIBU). - Graduated in 2022
Thesis title. Modelling user experience with universities website attributes based on webometric ranking user analysis
- (7) Mamati Godphalas MSc KIBU - Graduated in 2022
Framework for adoption of bring-your-own-device system on implementation of self-directed in Kenya universities
- (8) Richard Nyakundi PhD (KIBU) - Graduated on 3/3/2023
Thesis title . A model for acceptance of successful voter registration voter registration technology
- (9) Isaac Wafula Wekesa MSc (KIBU)- Graduated on 3/3/2023
Mobile Computing Devices Usability Framework for Growth Prediction in Microbusiness in Kenya”
- (10) Patrick Wafula MSc(KIBU) To graduate in December 2023 Thesis Impact of Predictive Analytics of Big Data in Supply Chain Management on Decision-Making
- (11) Halliet Loice Tsinale PhD(KIBU) to graduate on 15th of December 2023 Thesis title. An architectural framework for integrating medical data to big data analytics for enhanced semantic interoperability- .

Students whose supervision is in progress

- (1) Newton Sikobe MSc (KIBU) Thesis title. Enhancing Throughput in Bit Torrent P2P System with Anti-freeriding Mechanism”.

- (2) Joshua Okemwa Nyang'au PhD(KIBU) Thesis title E-Health Information Systems Interoperability Model for Seamless Data Exchange and Improved Access To Patient Information Signature
- (3) Dennis Gichuki PhD (KIBU) Thesis title. Sustainable smart farming based on wireless sensor networks and big data analytics)
- (4) Fabien Ngaboyimbere MSc(KIBU) Business Intelligence And Enterprise Resource Planning Integration Framework For Improved Performance within Local Government Administration Units In Rwanda.

Thesis Examined as an Associate Professor

- (1) Yonah Etene PhD KIBU. Thesis Title. Modelling Cloud Computing towards accessible Information Communication Technology integration of in primary Schools
- (2) Samson Munialo PhD MMUST Thesis Title: A size based effort estimation method for service oriented architecture systems.)
- (3) Mary Mwakombo PhD MMUST: Thesis Title. An extended Logical Directional Pattern Descriptor For Mammographic Breast Cancer Classification
- (4) Matovu Davis PhD MMUST Thesis Title .An Internet of Things Cyber Security Assessment Model and Metrics)
- (5) Roselinda Maroko PhD KIBU. Thesis Title. Modelling Utilization of the Internet and Social Media Platforms for sustainable Development for sustainable development of Women Entrepreneurs of small business in Kenya
- (6) Murumba Julius PhD KIBU. Thesis title. Modelling semantic web services and usability of grid computing in collaborating research for universities in Kenya.
- (7) Micheal Ujunju PhD MMUST. Thesis title. Algorithm for resources uses in multi-tenant cloud computing application environment.
- (8) Amuomo Nixon Ochieng PhD(MMUST) Thesis title An integrated framework for eHealth impact evaluation at public health Facilities: Kenya case
- (9) Dorothy Apondi Rambim PhD (JOOST) .Thesis Title. A participatory Model for an Enhanced Adoption of ICT innovation by Smallholders Farmers.
- (10) Batoya Isaac Barasa PhD KIBU Thesis measuring the level of ICT integration for portable technologies in collaborative learning in basic education in Kenya.
- (11) Ann Wambui Kingori MSc (MUT). Thesis Title. Cognitive complexity metrics for UML statechart diagrams.
- (12) Jackson Ngetich MSc (KIBU). Thesis title. A framework for adopting e-payments systems for small and medium enterprises in Kenya.
- (13) Benard Gakenga MSc (MKU). Thesis title. Analysis of technological factor influencing adoption of ICT in Teaching and Learning.
- (14) Edna Nyakundi MSc (MKU); Thesis Title. Text Mining Model for retrieval of explicit knowledge at the Coastal Development Project: Mombasa

- (15) Richard Samba Omwoyo MSC (MKU) Thesis Title. A framework for enhancing information Security risk assessment using fuzzy logics.
- (16) Kyeng Denis Kabarak University (KU) A Blockchain based smart contract model for tendering.
- (17) Boniface Mwangi Wambui MSC (MKU).Thesis Title a Model palm vein biometric Technology to enhance Integrity in Learning Institutions in Kenya. A case study of Mount Kenya University.
- (18) Richard Samba Omwoyo MSC(MKU).Thesis Title Two Factor Authentication Model Using Password and Card Deck Selection for E-Learning
- (19) Ayub Husein Shirandula PhD (MMUST) Thesis Title: An Integrated Model for Sustainable Ehealth Implementation.
- (20) Stanley Ogamba Mogaka PhD (MMUST) Thesis Title: Deployment Model For sustainable implementation of M-Learning I Higher Education Institution. A case of Kenyatta and Greta Universities.
- (21) Okumu Daniel Onyango MSc (JOOUST). Thesis Title: Human Firewall Simulator for Enhancing Security Awareness against Business Email Compromise.
- (22) Sabina Alago MSc (JOOUST) Thesis Title: Strengthening the design and governance of digital Currencies: Cases of sarafu credit & mandeleo trading credit.
- (23) Shadrack Ochieng Owiti. MSc (JOOUST) Thesis Title: A Fraud Management Framework for Mobile Finacial Services within Kenya.
- (24) Chizanga Merrilyn Kudzai, MSc (JOOUST) Enhanced Training And Awareness Framework For Combating Cybercrime In Public Universities In Kenya.
- (25) Gonza Otieno Omoro MSc (JOOUST) Thesis Title: Iintegrating Engagement Theory in Usability Evaluation Framework For Design And Development Of Health Information Systems.
- (26) Oguna Onyango Chrispin MSc (JOOUST) Social Network Recruitment Technology Adoption Framework in Hei, In Kenya.
- (27) Lilian Adhiambo Agung MSc (Jooust) Development of Enhanced Information System Success Model for Patient Information Assurance.
- (28) Lydia B. Moenga MSc (JOOUST) Thesis Title Patient's Self-Referral DE Congestion Framework.
- (29) Loice Achienga MSc (JOOUST) Thesis Title: An Optimized Artificial Intelligence Model for Emergence Case in Healthcare.
- (30) Nevy Kimani MSc(MUT) Thesis Title : A Complexity Evaluation model for Web Based Multi-Software Architecture
- (31) Macdonald Wekesa MIT(KIBU) Thesis Title A framework for adopting Learning analytics in virtual learning environment to support TEL
- (32) Simom Ndogo Ndungu PhD(Thesis Title Model for Sustainable Development CSA for small scale farmers in Kakamega
- (33) Jefwa Charo MSc (TUM). Thesis Title: Route Optimization Model For Solid Waste Collection Using Machine Learning and GIS Techniques

- (34) Nicodemus Aketch Ishmuel PhD(JOOST)Internet of things for Energy Efficient Building
- (35) Laura Cheptegei MSc Kabarak A framework for Design personal health system User Interface .
- (36) Jeremiah Oyana MSc (JOOUST) Networks Security Model for University Networks in Kenya

Consultancy

- (i) Assessors for applicants as Chartered Engineer for Engineering Council (UK)

The Table 1 list of Four applicants assessed as an Associate Professor

Table 2: Engineering Council Assessment

S/No	Name	Applications
1	Alsbbaghi Y	Chartered Engineer
2	Basith M.	Integrated Engineer
3	Hadley J.	Chartered Engineer
4	Matthew Waddingham	Chartered Engineer

- (ii) External examiner for Masinde Muliro University of Science and Technology
- (iii) External examiner for Laikipia University
- (iv) External examiner for Alupe University
- (v) External examiner for Jaramogi Oginga Odinga University of Science and Technology
- (vi) Reviewer of PhD Curriculum in Information Technology of Technical University Mombasa
- (vii) A resource person in Post graduate Workshop at Kabarak University
- (viii) A resource person in Post Graduate Workshop at Masinde Muliro University of Science and Technology
- (ix) A resource person in review of Enterprise application course of Mount Kenya University

- (x) External Examiner for assessing Thesis for Technical University of Mombasa
- (xi) External Examiner in assessing thesis for Muranga University Technical University Mombasa and Mount Kenya University
- (xii) **VAAL** University of South Africa has invited me to be an examiner for their postgraduate students, guest speaker, be part of their technical committee in preparation of their forth coming international conference and be part of team to bid Kenya –South Africa NRF Calls.

Training/Workshops

- (a) Data Protection training by the British Computer Society.
- (b) Chartered Engineering Assessment training a Refresher course
- (c) Vulnerability assessment and Penetration Testing training four weeks
- (d) Attending a Commonwealth of learning training on blended course development on Moodle learning
- (e) Commonwealth of learning workshop on development of the ODEL Policy
- (f) Attended a workshop in writing research funding proposal by Beeline.
- (g) Attended a workshop in Navaisha on implementation state corporation management software system.
- (h) Attended various workshop by NASCOTI on mainstreaming Science Technology and innovation
- (i) Attended a workshop on ICT standards by ICT authority.
- (j) Attended workshop on online teaching and learning by KENET.
- (k) Attended NRF-Resource Mobilization workshop.
- (l) Attended an online training and orientation of Integral University –Indian Learning management System.
- (m) Attended a on training on Python organized by Integral University of Indian.
- (n) Attended a UNESCO workshop on mainstreaming ECD and GCD in Universities.
- (o) Attended workshop in Mainstreaming Gender in workplace.
- (p) Attended workshop on grant research proposal development.
- (q) Participated in a workshop on sensitization of KIBU strategic plan to KIBU Council committee on Strategy, Finance and Development.
- (r) Attended the Strategic Leadership program by Kenya School of Government.

Research Proposals Submitted

- i. Part of team that has submitted a ESDA research proposal as part of consortium of 11 University seeking funding to improve ICT infrastructure funding from African Development bank to mitigate against COVID-19 in learning and teaching at Universities.
- ii. Part of team that submitted a successful proposal for Kibabii University to become a centre of excellence in ICT and Engineering in the Lake region economic block whose one of output in vii below.
- iii. The Principal Investigator on proposal Titled modelling a multi – agent patient management Robot in response to a Call by NRF on Collaborative research on COVID -19
- iv. Deputy Principal investigator in Proposal Academic Mobility for Sustainable Information and Communication Technology Human Capital Development (AMSTHD in response to Call for proposals EACEA/07/2020
- v. Part of team that wrote a proposal to IUEA for international students to hosted in MSc IT and MSc Computers Science.
- vi. Part of team that had written a proposal under the British Council for Use of ICT in preservation of Bukusu Cultural artefacts.

- vii. Part of team that drafted a proposal on how the NRF funded project could be commercialized and we have the Bungoma County negotiating on terms use the facility.

Community Service

- i. Donated story books to Mau summit Primary School.
- ii. Met the cost of splitting two pair of fibre cable to link the data centre to videoconference facility at KES 6000.
- iii. Bought Five Extension cables (KES 3750) that used in connecting equipment in the Mobile computing laboratory, none were available in procurement stores.
- iv. Contributed KES 18900 toward assisting Covid-19 mitigation.
- v. Contributed KES 10,000 for construction of a concrete bench for use by KIBU students in the fields.
- vi. Donated construction material worthy Kes 50,000 to PCEA Mirimaini Church Juja.
- vii. Contributed some in support of Prisoners welfare in Bungoma Prison service.
- viii. Contributed KES 5,000 to Kibabii University endowment fund.
- ix. Supported two student to participate in Kibabii International conference at cost KES 6000.
- x. Contributed Kes 12000 in construction material for PCEA Mirimaini Church vestry.
- xi. Guest of Honour in Fundraising for PCEA Unity Church where personal and friends contribution was Ksh 100,000.
- xii. Contributed KES 4000 in support of Kibabii University International Conference.

Other Publication as Senior Lecturer/ Lecturer/ Ast. Lecturer

Table 3: Others Publications/Supervision & Thesis assessment as Senior Lecturer/Lecturer/Ast. Lecturer

S/NO	Item -description	Number
1	Publications in referred journals/Books/Book chapters/ Conference proceeding/Teaching Modules	46
2	Post graduate students supervised to completion	13
3	Postgraduate thesis marked from various universities	17

- i. Published a paper Security issues in virtualized environments for small and medium enterprises International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 06, Issue 05, May 2017, ISSN: 2278 – 1323..M Vincent, **M Samuel**, M Shem Angolo
- ii. Published a paper on Factors that influence the choice of virtualized environments in small medium enterprises. International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 06, Issue 05, May 2017, ISSN: 2278 – 1323.M Vincent, **M Samuel**, M Shem, Angolo

- iii. Published a paper Titled Application Lifecycle Management Activities for Quality Assurance in Software Development in International journal of trends in research and developments (ISSN:2394-9333) Vol 4 Issue 2 March _April 2017.O Tobias,, **M Samuel**, K Juma, T Harriet, Loice
- iv. Published a paper titled Discoverability a new Learnability Principle for Children application software International journal of Computer Science & Information Technology (ISSN: 0975-3826) Vol 8 No 4 August 2016. BK Okelo, **SM Mbuguah**
- v. Published a paper entitled a review of mobile social Software Awareness and Utilization in international Journal of Science & Research Vol 5 issue 10 October 2016 ISSN:2319-7064.N Masese, **M Samuel**, M Geoffrey, Muchiri
- vi. Published a paper titled Interface features, Program Complexity and Memorability as indicators of Learnability of Mobile Social Software in International journal of Science and Research Vol 6 Issue 10, October 2017 ISSN: 2319-7064. N Masese, **M Samuel**, M Geoffrey, Muchiri
- vii. Published a paper titled factors influencing the selection of mobile phone among Universities students in Kenya. In the International Journal of innovative Research and Advanced studies Vol 5 issue 5, May 2018 ISSN 2394-4404. R Richard, K., **M Samuel**, W Franklin
- viii. Published a paper Innovative features driving mobile phone usage by students in Kenya. In the International Journal of Modern Trends in Engineering and Research, in 2018 ISSN 2349-9745, R Richard, K., **M Samuel**, W Franklin
- ix. Published a paper titled Evaluation Guidelines for Security threats in Mobile –Phone Banking In the International Journal of Engineering and Mathematical Sciences June 2018, Volume 13, Issue 1 ISSN 2319-4545. P Ngomeh, **M Samuel**, K Omieno
- x. Published a paper titled Facilitating Factors for CyberSecurity Vulnerabilities in Kenya County Governments In the Asian Journal of research in Computer Science , Vol11, Issue 1,2018 ,V Kadima, **M Samuel**, K Omieno
- xi. Published paper titled Implementation Evaluation Metrics for Enterprise Resource Planning Solutions published in Current Journal of Applied Science and Technology Vol 32 Issue 3 2019 ISSN 2457-1024. **SM Mbuguah**, F Wabwoba, CK Wanjala
- xii. Published a paper titled trends in information security in Universities in International Journal of Innovative Research and Advanced Studies (IJIRAS) Volume 4 Issue 11, November 2017. D Otanga, **S Mbugua**
- xiii. Published the paper titled Hotel Branding using Facebook and Dialogic Principles of Internet Communication in International Journal of Advanced Research in Computer Engineering & Technology, Volume..8...Issue....2...February-2019.., pp..38..-..46.. ISSN 2278-1323. O Patrick, **M Samuel**, I Anselemo
- xiv. Published a paper titled Factors Affecting Information Systems user Satisfaction in Kenyan Universities Journal of Emerging Trends in Computing and Information

- Sciences Vol. 7, No. 2 February 2016 ISSN 2079-8407. P.Nelima, **S.M.Mbuguah**, K.Omieno
- xv. Published a paper titled Using Twitter in Branding Hotel Strategies in Kenya in the International Journal of Advanced Research in Communication and Computer engineering Vol April 2019 ISSN 2278-1021.O Patrick, **M Samuel**, I Anselemo
 - xvi. Published a paper in Security Shortcomings of Electronic Web Based Voting Systems for Universities in Kenya IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 21, Issue 5, Ser. II (Sep - Oct 2019), PP 01-09 www.iosrjournals.org P. Simiyu, **Dr. Samuel Mbuguah**
 - xvii. Published a paper on Challenges facing the disposal of E-waste in Kenya Public Universities IOSR Journal of Engineering (IOSRJEN) www.iosrjen.orgISSN (e): 2250-3021, ISSN (p): 2278-8719Vol. 09, Issue 4 (April. 2019), K R. Nakhanu, **M Samuel**, K Juma
 - xviii. Map of the various configuration attributes from IPv4 to IPv6 networks for dual stack, 6to4 tunnelling and NAT: modelling designs in OPNET modeller International Journal of Computer Science and Mobile Computing, 2018. SW Barasa, **SM Mbugua**, SM Karume
 - xix. Published a paper titled a conceptual model of a holistic predictive attackability metrics model for secure service oriented softwares in *International journal of information technology research* ISSN-2223-4985.Vol.7 pp: 579-585. July 2012. **SM Mbuguah**, W Mwangi, PC Song, GM Muchiri
 - xx. Published a paper titled Social attackability metrics in the *International journal of information technology research* ISSN-2223-4985 Volume 3 No. 6 June 2013. **SM Mbuguah**, W Mwangi, PC Song, GM Muchiri
 - xxi. Published a paper titled Experimental Validation of attackability model has been accepted for publishing by *International journal of information technology research* ISSN-2223-4985Volume 3 No. 6 June 2013.**SM Mbuguah**, W Mwangi, PC Song, GM Muchiri
 - xxii. Published a paper titled Trends in Adoption of Open Source Software in Africa Journal of Emerging Trends in Computing and Information sciences ISSN 2079-8407 pg 69-78 January 2013 **S Karume**, **SM Mbuguah**,
 - xxiii. Published a paper titled Integrating Virtual Worlds and Virtual Learning Environments in Schools in Developing Economies. *International Journal of Information and Communication Technology Research. ISSN-2223-4985.Vol.2 (1) pp:17-22* K Omieno, G Wanyembi, **S Mbugua**
 - xxiv. Published a paper titled Determination of Information Systems service Quality Attributes in Banking Industry International Journal of Technology in Computer Science & Engineering, Volume 1(2), June 2014, pp 40-51 Available online at <http://www.ijtcse.com> ISSN 2349-1582SW Njoroge, **SM Mbuguah**, GM Muketha

- xxv. Published a paper titled ICT personnel maturity towards green ICT in Kenya. International Journal of Computers & Technology. 13(3):4319-4328 ISSN 2277-3061. 2014. W Franklin, **M Samuel**, I Anselemo, Peters, S Dorcus, Arshley
- xxvi. Published a paper titled A Review of Algorithms for Determination of Attackability Metrics in Journal of Emerging Trends in Computing and Information Sciences Vol. 5, No. 4 April 2014 ISSN 2079-8407 **SM Mbuguah**, M Geoffrey, Muchiri, W Franklin
- xxvii. Published a paper titled Intervention Measures towards Successful Implementation of Software Projects in Public Universities in Kenya In Journal of Emerging Trends in Computing and Information Sciences Vol. 5, No. 4 April 2014 ISSN 2079-8407. PW Soita, **SM Mbuguah**, MO Ujunju, G Wanyembi
- xxviii. Published a paper on Environmental implications of cell phones penetration and disposal in Kenya. *International Journal of Computers & Technology* 2014. 13(7):4647-4652 ISSN 2277-3061. F Wabwoba, T Sakwa, **S Mbugua**, HJ Kilwake
- xxix. Published a paper on Effect of real time settlement of financial performance of public universities in Kenya. Global journal of commerce and management. vol 4(2) 2015. ISSN 2319-7285. A. Nangila, **S. Mbuguah**, R, Fwamba
- xxx. Published a paper titled Evaluation of the learnability principles of mobile wireless information systems application software for children in Kenya Vol. 6, No 6 June 2015 ISSN 2079-8407 BK Okelo, **SM Mbuguah**
- xxxi. Published a paper Information Security Risks Posed by the Bluetooth Security Weaknesses to the Bluetooth-Enabled Phones Journal of Emerging Trends in Computing and Information Sciences Vol. 6, No. 12 December 2015 ISSN 2079-8407 ©2009-2015 CIS Journal. All rights reserved. <http://www.cisjournal.org> C.K.Wanjala, **SM Mbuguah**, SM. Karume

Conference

- i. Presented a paper titled Evolving information technology: opportunities and challenges in *First information Communication Technology (ICT) conference at Multimedia University College University in Kenya 2012*. A. Shiradula, **SM. Mbuguah**
- ii. Presented a paper on Hotel website evaluation model in the context of web 3.0 paradigm in IFTT_Doctoral summer school proceeding – June 2017
- iii. Presented a paper of Evoting in Kenya in I ST international Conference in Kibabii University held in June 2016. **M Samuel, Mungai**, M Geoffrey, Muchiri, M Samuel
- iv. Presented a Paper on Social engineering attacks awareness in Kibabii University in Second international conference held in Kibabii in June **2017**. **SM, Mbuguah**, T. Otibine
- v. Presented a Paper Factors Influencing the Selection of Mobile Phone among University Students in Kenya Proceedings of 3rd Interdisciplinary International Scientific Conference .2018 R Richard, K., **M Samuel**, W Franklin

- vi. Presented a paper Energy Efficient Programming Attributes in Mobile Applications Environment 3rd International Conference held in Kibabii University in June 2018. M Adeline, **M Samuel**, W Franklin
- vii. Presented a paper on Implementation of BitTorrent for peer ompeer sharing of information on 4th international Conference held in Kibabii University in June 2019 N. Sikombe, **SM. Mbuguah** , M. Micheni
- viii. Presented a paper on Framework for evaluating the effectiveness of integrated financial management system in Kenya Public Hospitals on 4th international Conference held in Kibabii University in June 2019. M Afwande, **SMbuguah**, J.Kilwake
- ix. Presented a paper Mobile applications energy efficient programming practices and energy profiling tools at *2nd JOOST international Conference 2019*
M Adeline, **M Samuel**, W Franklin

University level Books

- i. Co –authored a book Green ICT Implementation Developing Nation published by Lambert ISBN 978-3-639-66773-8 -2014. F.Wabwoba, **S,Mbuguah**
- ii. Co –authored a book Attackability Metrics Model for Secure Service oriented Architecture published by Lambert ISBN 978-3-659-66885-2-2014. **SM.Mbuguah** F.Wabwoba
- iii. Co-authored a book Computer Basic at your fingertips, published by Lambert ISBN 978-3-659-68624-5-2014. **SM.Mbuguah** F.Wabwoba

Book Chapters

- i. E-Voting Challenges for Kenya is a Chapter in Book Titled current trends in Social and Educational Development : a Multi-Discipline approach Published Kibabii in 2016 University ISSN 978-9966-59-006-0 **S.Mbuguah**, GM.Muketha S,Maragia

Teaching Modules and others

- i. Co-authored a module Computer application for E-learning -2019. **SM.Mbuguah**, F Wabwoba, & DA. Shisoka
- ii. Co-authored a module fundamentals of Computing for E-learning -2019 DA. Shisoka, F.Wabwoba **& SM, Mbuguah**

Others publications

- i. Produced a report of USF sponsored Research finding on topic titled “E-Voting as possible solution to the Kenyan Election debate”.
- ii. A reviewer of the African journal of Information technology.
- iii. A reviewer for politics and policy in the information age.
- iv. Lead writing the ICT policy among other policies.
- v. Lead in writing four ISO procedures for the department.
- vi. Lead in developing the ICT strategic plan (2018 -2022).

- vii. Lead in Documentation of ISMS Quality policy, Assets, procedures and risk.
- viii. An Assessor for applicants for Chartered and Integrated Engineers for Engineering Council UK.

Supervision to graduation of Post Graduate Students as Senior Lecturer or Lecturer

- i. Ronoh Richard PhD (KIBU) – Graduated in 2018
- ii. Nelson Masese PhD (KIBU) - Graduated in 2018
- iii. Bethwell Okello MSc (MMUST) – Graduated in 2016
- iv. ChrispusWanjala MSc (MMUST) – Graduated in 2016
- v. Perez Nelima MSc (MMUST) – Graduated in 2017
- vi. Tobias Otibine MSc (KIBU) – Graduated in 2016
- vii. Sarah KapukhaMSc (KIBU) – Graduated.in 2018
- viii. Andrew Chekulesi MSc (KIBU) - Graduated.in 2018
- ix. Augustine Ngome MSc (MMUST) – Graduated in 2018
- x. Edward WakoliMSc(KIBU) – Graduated in 2018
- xi. Victor Kadima MSc(MMUST) – Graduated in 2018
- xii. Sarah Wanja MSc (MMUST) – Graduated in 2015
- xiii. Peter Soita MSc (MMUST) - Graduated in 2015

PhD Thesis of students listed below were examined as Senior Lecturer / Lecturer

- (i) John Ndia PhD MMUST
- (ii) Peter Anselmo PhD MMUST
- (iii) Elly Muthoni PhD MMUST
- (iv) James Abila PhD KIBU
- (v) Nicholas Kiget PhD KIBU
- (vi) Ratemo Cyprian PhD KIBU
- (vii) Daniel Otanga PhD KIBU
- (viii) Stanley Mwangi PhD MKU
- (ix) Alice Nambiro PhD KIBU

MSc thesis for students listed below were examined as Senior Lecturer / Lecturer

- i. Stephen Ngure Gitonga MMUST
- ii. Hussein Shirandula MMUST
- iii. Ndukuyu Arnold KIBU
- iv. Dorcas Gicuku Mwigereri MMUST
- v. Rono K Hillary MMUST
- vi. Samuel Khayo MMUST
- vii. Harriet Loice Thsanale KIBU
- viii. Gichuki Dennis KIBU
- ix. Asenahabi Bostley KIBU

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|-------|--------------|-------|
| x. | Lilian Rono | MMUST |
| xi. | Batoya Isaac | KIBU |
| xii. | Okwemba Rose | KIBU |
| xiii. | Wafula John | KIBU |

Funding

- i. Deputy Project leader for Kibabii University Team that won KSh 64.6 Million for ICT infrastructure in 2018
- ii. Won NACOSTI funding during PHD research worthy KSH 500, 000 in 2012
- iii. Won KSh 200,000 from MMUST research fund 2010
- iv. My students have also won NRF funding under my Guidance
- v. Rose Kapukha MSc student a supervising won Ksh 120, 000 From NACOSTI
- vi. Samuel Barasa a PhD student I am supervising won KSh 600,000 from NACOSTI
- vii. Patrick Owoche a PhD student I am supervision won KSh 500,000 from NRF

Community Service,

- i. Donated story books and Gave Motivation speech to Laboot Primary School Mount Elgon
- ii. Donated Text books to Kiroboni Girls High School
- iii. Donated Text books to Njoro Boys High School
- iv. A committee member for Mwiki Primary School
- v. Participates in Church Funding raising activities
- vi. Been a treasurer for Langata Phase II Jirani Mwema Welfare Association
- vii. Been Treasury Langata Phase II Rural Electrification Project
- viii. Contributed financially to various Kibabii University activities

Consultancy

- i. External Examiner for Muranga University.
- ii. External Examiner for Alupe University College.
- iii. External Examiner for Masinde Muliro University of Science and Technology
- iv. External Examiner for Laikipia University.
- v. Reviewer of Curriculum for Enterprise Computing for Mount Kenya University.
- vi. Reviewer of Curriculum for PhD in Information Technology of Technical University of Mombasa.
- vii. An assessor for candidates applying for Chartered Engineering status for the Engineering Council.
- viii. An Editorial Advisory board member for a book titled Metrics and models for evaluating the effectiveness of the quality and effectiveness of ERP Software published

Date of Birth&Marital status 10/10/1964 and Married with Children

Referees

- (i) Prof. Shem Aywa Kibabii University 0721204913 saywa@kibu.ac.ke
- (ii) Prof. D. Siamba Kibabii University [No.0722238039](tel:0722238039), dsiamba@kibu.ac.ke
- (iii) Prof. Solomon Ogara JOOUST No. 0733282523 Solomon.ogara@gmail.com

