



UNIVERSITY OF EMBU

Dr. FAITH MUENI MUSYOKA

Name: Dr. Faith Mueni Musyoka

Title/Qualification: PhD. in Information Technology

Position: Lecturer

Department: Mathematics Computing and Information Technology

School: Pure and Applied Sciences

Area of Specialization: Information Technology

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Career Objective:

To be a successful consultant in Information Technology field (Health Informatics) as well as work in a reputable institution, where my expertise and intellect would facilitate the realization of its mission and vision as I expand my scope in training, research, and professional growth

Short Biography:

Dr Faith Mueni Musyoka is a holder of Doctor of Philosophy in Information Technology from Kabarak University, Kenya, Master of Science in Information Technology and Bachelor of Science in Computer Science both from Masinde Muliro University of Science & Technology, Kenya. Dr. Faith is currently a Lecturer in the Department of Mathematics, Computing and Information Technology University of Embu, Kenya. She has served as a Tutorial Fellow for two years at the same institution. Dr. Faith has previously worked as an Assistant Lecturer at Greta University, Kenya.

Dr. Faith Mueni Musyoka has research interest in the application of Internet of Things Technology in addressing healthcare challenges. She has developed a solution on detection of blood pressure fluctuations using smart arm watches and then triggering alerts to caregivers then, conducted the evaluation on the solution. Other research interests include; Software Quality and Software Metrics.

Conference and workshops participation:

1. **25th October 2018, Kabarak University 8th Annual International Research Conference: Translational and Preventive HealthCare.**
Faith Mueni Musyoka, Dr. Moses Thiga, Prof. Geoffrey Muchiri: A Blood Pressure Monitoring Prototype for Preeclampsia Management in Antenatal Care, Kenya.
2. **23rd January 2018, University of Embu.**
Attended Training workshop on Effective Examination Setting, Administration, and Processing
3. **Nov 2017, International Multidisciplinary Conference Gretsia University:**
Faith Mueni Musyoka: User acceptance on mobile apps as an effective medium to learn C++ programming language: Conceptual study
4. **Nov 2017, International Multidisciplinary Conference Gretsia University:**
Beatrice Kairo, Faith Mueni Musyoka: Alert messaging system for Gatunguru Tea Factory Farmers in Murang'a County, Kenya
5. **October 2017, Kabarak University 7th Annual International Research Conference: Micro Research Workshop**
Faith Mueni Musyoka: SMS-based technology for maternal health outcome improvement in the informal settlement a case study of Rhonda slums, Nakuru County
6. **May, 2016, Gretsia University Training Workshop**
Presented on Team Building

Publications in Journals:

1. Faith Mueni Musyoka, Moses Mwangi Thiga, Geoffrey Muchiri Muketha “A 24-hour ambulatory blood pressure monitoring system for preeclampsia management in antenatal care”. *Informatics in Medicine-Unlocked*, Elsevier. Volume 16 2019. <https://doi.org/10.1016/j.imu.2019.100199>
2. Faith Mueni Musyoka, Moses Mwangi Thiga, Geoffrey Muchiri Muketha “An Assessment of Suitable and Affordable Smart armband for preeclampsia Management in Antenatal Care”. *International Journal of Information Technology*, Volume 3, Issue 6, June, 2019
3. Musyoka Faith Mueni “Analysis of Static Code Techniques for Vulnerability Detection: A reviewed Literature” *International Journal of Modern Computer Science (IJMCS)*, ISSN: 2320-7868. Volume 5, Issue 5, October, 2017, pp 29-31

4. Musyoka Faith Mueni “Determinants of Mobile Apps in C++ Programming Course: A reviewed Literature” *International Journal of Modern Computer Science (IJMCS)*, ISSN: 2320-7868. Volume 5, Issue 5, October, 2017, pp 26-28
5. Musyoka Faith Mueni, Muketha Geoffrey Muchiri, Anselemo Peters Ikoha. “An Assessment framework for Internet banking system reliability” *International Journal of Technology in Computer Science & Engineering*” (ISSN 2349-1582). Volume 1(3), September 2014 , pp 88-100