

The Principal, College of Engineering, Design, Art and Technology to present the following for the Conferment of the Doctor of Philosophy (Mechanical Engineering)

MUTAMBI Joshua

"Stimulating Industrial Development in Uganda through Open Innovation Incubators"

Mr. Mutambi's study focused on innovation systems and industrial development process. Micro, Small and Medium scale enterprises (MSMEs) are key actors in the process of innovation systems and industrial development. Understanding how MSMEs can better be supported and nurtured for survival and growth in Uganda as a developing country is needed. An open innovation incubator model was designed based on clusters and innovation systems approach as an appropriate model for Uganda and other low income countries aimed at stimulating industrial development through promotion of sustainable micro, small and medium scale enterprises. The model will enhance the performance of incubation systems, innovation performances within firms and the interactions between the triple helix actors in Uganda. This study funded by Mak-Sida research programme. Supervisors; Prof. Joseph K. Byaruhanga (Mak) and Prof. Lena Trojer (Blekinge Institute of Technology-Sweden).

The Principal, College of Engineering, Design, Art and Technology to present the following for the Conferment of the Doctor of Philosophy (Electrical Engineering)

ECURU Julius

"Unlocking potentials of innovation systems in low resource settings"

Mr. Ecuru investigated the dynamics, challenges and opportunities of developing innovation systems in low resource settings, particularly in Uganda and eastern Africa in general. A key feature of innovation systems is the interaction and learning, which occur among different actors in the production, use and diffusion of knowledge. A model was developed, and used to map the structure and analyze functions of innovation systems at the macro and micro level. From this, enabling conditions for and barriers to growth of particular innovation systems in the country were elucidated. Suggestions are made on how to improve functionality of innovation systems in low resource settings. The findings point to a need for a systems approach to investment in science, technology and innovation for increased economic growth and sustainable development. Supervisors; Prof. Lena Trojer (BTH Sweden), Dr. Yasin Naku Ziraba (Mak) and Dr. Peter O. Lating (Mak).

The Principal, College of Engineering, Design, Art and Technology to present the following for the Conferment of the Doctor of Philosophy (Fine Art)

KATENDE Nabiteeko Sylvia Violet (Ms)

Expression of Children's Experiences and needs through Visual Art: The Case of Orphaned Children in Uganda

Ms. Katende explored Visual Art as a potential mode of communication for orphaned children to express their experiences and needs to caregivers in institutional homes, foster households and NGOs in Uganda. The findings from children's artworks; interviews and questionnaires to adult caregivers, through an interpretive Phenomenological Approach significantly contributed to the knowledge of addressing and better understanding of communication of psycho social experiences and needs through Visual Art. She developed and recommended a Child-Centred Visual Art Communication Model to Rehabilitation Centres, Institutional Homes, Communities, Hospitals, Schools and NGOs; and proposed Art Therapy for Curriculum Development in Higher Institutions of Learning. Financial support was obtained from: CIDA/Sarec Female Staff Initiative Ph.D Scholarships. Supervisor: Dr. Bro. Andrew Yiga

Conferment of the Doctor of Philosophy (Fine Art)

SENGENDO Pilkington George Erastus Nsibambi

"The Individual Artist's Cultural Identity via Artifactual Mix at the Margaret Trowell School of Industrial and Fine Art, Makerere University".

Mr. Sengendo carried out an investigation on the 'individual artist' using the artifacture-mix theory to create modernist art of cultural identity. The artifacture-mix theory postulates that deliberate artifacture is a form of self expression as well as a form of knowledge-dissemination on the notion of cultural consciousness. Through a studio-based research approach, Sengendo created a body of visual representations which critically assess and re-evaluate the aesthetic value and meaning inherent in the East African traditional cultures, particularly the material culture of the Baganda people of central and Southern Uganda. Sengendo's study has culminated in a new innovation of creating woven fabric out of bark-cloth material, and this work has been patented. Financial support was obtained from the Makerere University Staff Development Programme. Supervisors; Prof. Peter Baguma and Prof. F. X Nnaggenda.