

**Developing a Framework for Open Source Software Adoption in a
Higher Education Institution in Uganda'**

A case of KIU

A thesis

**Presented to the College of
Higher Degrees and Research
Kampala International University
Kampala, Uganda**

**In Partial Fulfillment of the Requirements for the Degree of
Master of Science in Systems Software engineering**

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SEPTEMBER, 2012.



ABSTRACT

This study aimed at developing a frame work for open source software adoption in an institution of higher learning in Uganda with the case of KIU as a study area. There were mainly four research questions based on; individual staff interaction with open source software forum, perceived FOSS characteristics, organizational characteristics and external characteristics as factors that affect open source software adoption. The researcher used causal-correlation research design to study effects of these variables on open source software adoption. A quantitative approach was used in this study with self administered questionnaire on a purposively and randomly sampled sample of university ICT staff. Resultant data was analyzed using means, correlation coefficients and multivariate multiple regression analysis as statistical tools. The study reveals that individual staff interaction with open source software forum and perceived FOSS characteristics were the primary factors that significantly affect FOSS adoption while organizational and external factors were secondary with no significant effect but significant correlation to open source software adoption. It was concluded that for effective open source software adoption to occur there must be more effort on primary factors with subsequent reinforcement of secondary factors to fulfill the primary factors and adoption of open source software. Lastly recommendations were made in line with conclusions for coming up with Maganda frame work for open source software adoption in institutions of higher learning. Areas of further research recommended include; Stakeholders' analysis of open source software adoption in Uganda; Challenges and way forward. Evaluation of Maganda frame work for open source software adoption in institutions of higher learning. Framework development for cloud computing adoption in Ugandan universities. Framework for FOSS development in Uganda IT industry.