

3.1. Information Technology and Computing

In an age of information overload and information explosion, decision makers and researchers require a suitable knowledge management system, applications of statistical methods and data mining studies to get valuable information to improve the day to day life of the community. Knowledge Managgment (KM) system refer to any kind of information technology system that stores and retrieves knowledge, improves collaboration, locates knowledge sources, mines repositories for hidden knowledge, captures, uses and shares knowledge, or in some way enhances the KM process. Haramaya University (HU), in its entire journeys created more than thousands of knowledge in different forms either in printed or electronic format. Huge numbers of data are stored offline in every department, faculty and institute, but it is not properly used and remains as grey literature. Therefore, this research is initiated to address the problem of exploring/mining the unique type of data that come from many educational settings, to develop applications of statistical methods, to capture the existing data for institutional knowledge and to put its Management System in place. The main focus areas in this sub-theme are:

- Developing a knowledge managment system: The application of ICT and web technology for creating a suitable knowledge management system for HU; identification and prioritization of knowledge to be captured and preserved in HU and developing a suitable knowledge sharing system for HU;
- Development and applications of statistical methods in any fields;
- Analysis and visualization of data for mining;
- Predicting students academic performance.