

THESIS ABSTRACT

1. Title:
**AN INFORMATION SYSTEM/INFORMATION TECHNOLOGY
PLAN FOR BENGUET STATE UNIVERSITY**

Total Number of Pages: 397
Text Number of Pages: 257
2. Author: **Daniel-Rey M. Bayog** and **Angelito Peralta**
3. Type of Document: **Thesis**
4. Type of Publication: **Unpublished**
5. Host/ Accrediting Institution:

Saint Louis University (Private)
Bonifacio Street, Baguio City
CHED-CAR
6. Sponsor (for funded research): not applicable
7. Keywords:

**INFORMATION SYSTEM, INFORMATION TECHNOLOGY,
TECHNOLOGY PLANNING, APPLICATION DEVELOPMENT,
NETWORK DESIGN**
8. Abstract:
 - 8.1. **Summary:** The research detailed an Information System/Information Technology plan for Benguet State University, taking into consideration the applications portfolio and development plan, network infrastructure and IT technical development plan and a human resource and skills plan. Basically, the study is an action research. Unstructured interviews and document analyses were used as a data gathering tools. The respondents

for the interviews included 3 personnel from BSU from top (President and Vice Presidents) and middle management (Directors, Chief Sections). And close interaction with the staff of the RITC provided much of the needed information. The study involved three phases namely IS/IT planning through critical success factor analysis, application development planning, IT Technical planning and human resource planning.

- 8.2. **Findings:** The study revealed that in terms of Information Systems, most of the existing IS of BSU barely meet the demands of the University. It presently has an assortment of software mostly for office automation. The ratio for computer to employee ration is much higher than the computer to student ratio and that there are some local area network in the University. There are six technical personnel in BSU with only three directly related in the management of the IT operations. Additionally, the critical success factors analysis showed that BSU requires 18-application system, with corresponding sub-modules, to effectively meet the goals and objectives set by the management. For the It technical infrastructure, the University requires Internet access, multi-building links and connectivity within buildings. Finally, BSU has to setup a viable IS personnel structure to manage its resources.
- 8.3. **Conclusions:** In terms of IS/IT profile, the existing Information Systems in Benguet State University need to be improves there is limited computers for students but adequate for the employees and there is an assorted collections of licensed software although unlicensed software still proliferate. There is presently a minimal network infrastructure as limited number of Information System Personnel to sustain a productive use of its IS and IT resources. In terms of the development plans, an extensive applications portfolio and applications development plan involves the implementation of application systems towards promoting a productive workforce and efficient management of information. A comprehensive network infrastructure and IT technical development plan for Benguet State University incorporates all equipment, hardware and software requires for internet access to world-wide information, backbone for multi-building connectivity and a local area network for linking workstations within buildings. An effective human resource and skills development plan covers a viable Information Systems personnel structure with pre-defines qualification standards, functions and training.

8.4. **Recommendation:** A continuing commitment between the management of Benguet State University, the IS group (RITC) and the BSU community in general is recommended to implement the proposed development plans for the University. A new study should be undertaken after the implementation of the development plan primarily to assess its effectivity and propose changes as needed. The Regional Information Technology Center should be officially commissioned as the central office for applications development. Information processing and network management and provided with the necessary personnel support structure. Additionally, the IT academic community should design and adopt a suitable format for Information Technology research papers. Finally, the study should serve as guide for future researchers and technology planners who wish to undertake work along the area of Information Systems and Information Technology Planning.