Assessment: ICT Infrastructure in Support for E-Learning Environment at Isabela State University System: Management, Learning and Improvement

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***Abstract*— This is a study on the assessment of e-learning services and how it is learned, managed and improved in order to gain enriching ICT e-services of the Isabela State University (ISU) system aided by its ICT Infrastructure. It aimed at determining the status of ICT Infrastructure of ISU Campuses in terms of peopleware, hardware, software and network; it also assessed the quality of the ICT infrastructure in terms of efficiency, reliability, speed and accuracy as per assessment of the respondents; and it identified innovative plans than can strengthen the ICT infrastructure.**

The researcher used the descriptive correlation research method. It is in this method that demographic data of the deans, chairmen, and ICT faculty members of the nine campuses of ISU and the data on the leveling of ICT infrastructures and e-learning environment are considered and correlated and took the form of survey questionnaires and actual inventory to verify the infrastructure. Considered in the assessment of the e-services are factors for the success of e-learning or flip classroom such as finance, executive support, readiness of the lecturers and students, readiness of technicians and evaluation and follow-up (as cited in Rueangprathum A.(2005).

As per result of the study, it revealed that ISU System's ICT Infrastructures to e-learning services had the above standard but with minor issue as to licensed software; below standard in hardware; and above standard in peopleware. Likewise, there is a well-established local area network at ISU Systems even without the connection of internet. Conversely, the main server used the two-layered characteristic of the CISCO network model. Additional findings revealed that ISU system had already acquired servers and CISCO routers and switches and ready for deployment to other mother cluster. However, it was found that interconnectivity for the nine (9) campuses is NOT POSSIBLE due to a weak internet provider.

***Index Terms*— E-Learning, ICT infrastructure, Networking.**

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