

ABSTRACT

Practicum is a structured and scheduled teaching activity for students to practice directly the theory that has been learned. One of the courses that carry out practicum activities in D3 Telecommunications Technology is Optical Communications System, which is this activity must be attended by students who take the course in the specified semester. Practicum implementation is based on a predetermined schedule which has a value and attendance that set manually by practicum assistant. This can lead to several obstacles, such as the loss of data or practical values, which hinder communication between lectures, assistants, and practical at the end of semester.

Therefor, in this research will make an Information Management System related to Optical Communications System practicum activities, so the students and lecturer get accurately and quickly information. This system is design to distribute information related to Optical Communication System Laboratory such as assignments, practicum schedules, and students value by website that integrate with database as a storage. In this system, lab assistants acts as an admin who can manage and process the information that contained on the website. Lectures and students as users and have to make an account to log in when they need to access information from the website. In addition, there are other menus on the website such as information relate to training and SKO learning videos that can be access by public.

The Information Management System designed in this Final Project can be accessed by an internet connection via the URL www.skolaboratory.000webhostapp.com on computer and smartphone search engines. Based on the functionality test, it was found that this application can run and function as it should. The level of web performance based on the stresstool test is quite good if accessed by multiple users simultaneously in a large number of maximum 1000 users. In addition, the level of delay in the process of uploading files to the website has an average delay of 1.48 seconds, based on the ITU-T standard is good enough.

Keywords : *Information Management System, Practicum, Optical Communication System Laboratory, Website, Database.*