

## **Abstract**

E-learning is a distance learning technique which is mix communication, self-motivation, efficiency, and technology. One of the developments of e-learning is the emergence of e-learning 2.0. From several sources that can be a web that has the characteristics of web 2.0 and utilized for the purpose of education, the category can be included in the e-learning 2.0

Distance learning, if implemented, would be better if standardized. IEEE 1484 has making this, the Learning Technology System Architecture (LTSA). LTSA is an architecture that regulates a learning system and its relation to the environmental system.

In this final project, the authors implement KBK Rekayasa Perangkat Lunak Informatics Faculty of IT TELKOM as a case study through the LMS MOODLE. The implementation of LTSA which consists of several components will be analyzed based on the perception of stakeholders on the study case.

Analysis conducted with the level of usability of e-learning 2.0 implementation which is standardized with LTSA system compared with a lecture system that has been applied in KBK Rekayasa Perangkat Lunak Informatics Faculty of IT TELKOM. After analysis and testing is done, then it can be concluded that when using e-learning 2.0 with LTSA standardization can increase usability of learning.

**Key words** : e-learning 2.0, LMS MOODLE, LTSA, usability