| Course Code | | TKEE163245P | |
|--------------------------------|--|--|---|
| Course Name | | Management of Telecommunication System Lab Work | |
| Course Instructors | | Budi Setiyanto | |
| Course Type | | Required | |
| Course Classification | | Engineering Topics | |
| Credit / Contact Hour per Week | | 1 / 150 minutes per Week | |
| Course Description | | In this Lab Work, the students learn about the operations of a digital telephony systems, digital transmission process, radio communication systems, the concepts in code division multiple access, building a computer network using a UNIX-based operating system, as well as routing and switching processes. | |
| Prerequisites Courses | | - | |
| Covered Student Outcome | | Data and Experiment (d) Modern Tools Utilization (e) Multidisciplinary Teamwork (h) | |
| Learning Outcome Topic | The students are able to show and demonstrate the operations of a digital telephony system using an advanced telephony tutorial The students are able to perform analysis on digital transmission process using an analyzer equipment The students are able to show and demonstrate radio communication systems, which include transmitter and receiver equipment The studets are able to explain the fundamental concepts in code division multiple access within a cellular communication systems The students are able to build a computer network using a UNIX-based operating system The students are able to explain routing and switching processes using packet tracer Digital Central Telephone Digital Transmission Analysis Radio System Testing CDMA simulator Computer Network with Linux | | |
| Discret Assessment | 12. Package Tracer | | |
| Direct Asessment | Direct Assess Lab Work Rep Pretest Post Test | | Measured Learning Outcome LO1 LO2 LO3 LO4 LO5 LO6 LO1 LO2 LO3 LO4 LO5 LO6 LO1 LO2 LO3 LO4 LO5 LO6 |
| Indirect Assesment | Questionnaire (EDOM) | | |
| References | [1] B. Setiyanto, 2010, Dasar-dasar Telekomunikasi, Sakti | | |
| | [2] A. Goldsmith, 2005, Wireless Communications, Cambridge University | | |
| | Press | | |
| | [3] W. Stallings, 2013, Data and Communications, Pearson | | |