Course Code	TKEE161104P
Course Name	Fundamental of Electrical Engineering Lab Work
Course Instructors	Bondhan Winduratna, Eka Firmansyah, Suharyanto, Priyatmadi, Harry Prabowo
Course Type	Required
Course Classification	Engineering Topics
Credit / Contact Hour per Week	1 / 150 minutes per Week
Course Description	This course aims to introduce students to electrical measurement devices and to demonstrate the basic phenomena in electrical circuits
Prerequisites Courses	Fundamentals of Electrical Engineering (TKEE161104)
Covered Student Outcome	**Data and Experiment (d)** **Multidisciplinary Teamwork (h)**
Learning Outcome	1. Students are able to demonstrate and empirically verify basic electrical law and phenomena. 2. Students are able to conduct measurement of electrical quantities. 3. Students are able to perform measurement in groups and divide work appropriately
Topic	1. Oscilloscope Measurement 2. DC Circuit (Ohm's Law and Kirchoff's Law) 3. AC Circuits 4. Voltage Regulator (Zener Diode and Clipping) 5. Transient Response
Direct Asessment	

Direct Asessment Plan	Measured Learning Outcome
Pretest	LO1, LO2, LO3
Labwork Report	LO1, LO2, LO3

Indirect Assesment	Questionnaire and direct communication
References	[1] Robertson, L. Anne, 2012, Simple Program Design, Thomson Course Technology, United States of America. [2] B. Tucker, 1995, Fundamentals of Computing I, McGraw-Hill, Inc., United States of America. [3] L. Wear, 1991, "Computers", McGraw-Hill, Inc., United States of America. [4] Hanly, Jeri R., et.al., 1993, Problem Solving and Program Design in C, Addison Wesley Publishing Company.