

Course Code	TKEE163102P							
Course Name	Electrical Wiring and Installation Labwork							
Course Instructors	Tiyono, Harnoko							
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 digital modulation techniques, digital communication systems, sampling theory and the related concept, advanced analogue communication systems, antennas and wave propagations, as well as data communications using RS-232-C cable							
Prerequisites Courses	Electrical Wiring and Installation (TKEE163102)							
Covered Student Outcome	Engineering Design (c) Data and Experiment (d) Multidisciplinary Teamwork (h)							
Learning Outcome	<ol style="list-style-type: none"> Students are able to understand the basics of installation engineerin and electrical wiring. Students are able to implement installation engineering plan and gather data regarding their compliance with the standard Students are able to perform group projects regarding electrical wiring and installation. 							
Topic	<ol style="list-style-type: none"> Perencanaan Instalasi Pemanfaatan Tenaga Listrik Sederhana (Autocad) Perencanaan Sistem Pencahayaan (Revit) Simulasi Sistem Kelistrikan (Etap) Instalasi Panel Motor Sistem Pembumian/Grounding Perencanaan Mekanikal, Elektrikal, dan Plumbing /MEP Tugas Akhir Praktikum 							
Direct Asessment	<table border="1"> <thead> <tr> <th>Direct Asessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Lab Work Report</td> <td>LO1 LO2 LO3</td> </tr> <tr> <td>Pretest</td> <td>LO1 LO2 LO3</td> </tr> </tbody> </table>		Direct Asessment Plan	Measured Learning Outcome	Lab Work Report	LO1 LO2 LO3	Pretest	LO1 LO2 LO3
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Lab Work Report	LO1 LO2 LO3							
Pretest	LO1 LO2 LO3							
Indirect Assesment	Questionnaire (EDOM)							
References	<p>[1] Guinness, Mc., Stein, Reynold, 1989, Mechanical and Electrical Equipment for Building, 6th edition, John Wiley and Sons, New York</p> <p>[2] Panitia Revisi PUIL, 2000, PUIL 2000, Jakarta</p> <p>[3] Reeves, EA., Howell, AG., 1988, Handbook of Electrical Installation Practice, Granada Publishing Company</p> <p>[4] Stetyawan, E., Harten, van., 1987, Instalasi Listrik Arus Kuat, Jilid I, II, III, Bina Cipta, Bandung.</p>							