

Course Code	TKEE163211P									
Course Name	Advanced Power Machine Lab Work									
Course Instructors	Budi Setiyanto									
Course Type	Selected Elective									
Course Classification	Engineering Topics									
Credit / Contact Hour per Week	1 / 150 minutes per Week									
Course Description	This labwork continues the sequence of test and measurement from the Basic Electric Machine Labwork by introducing further measurement instrument and more advanced electric machine.									
Prerequisites Courses	Advanced Power Machines (TKEE163211)									
<b>Covered Student Outcome</b>	<b>Engineering Design (c)</b> <b>Data and Experiment (d)</b> <b>Modern Tools Utilization ( e )</b> <b>Multidisciplinary Teamwork (h)</b>									
Learning Outcome	1. Students are able to identify performance indicator necessary for the design of electromechanical system 2. Students are able to measure the performance indicator of advanced electric machines 3. Students are able to operate in team to perform measurement of advanced electric machine									
Topic	1. Pengujian Efisiensi dan Regulasi Trafo 2. Hubungan Primer-Sekunder Trafo dan Bilangan Jam 3. Pengujian Torsi Mesin Arus Searah DC 4. Pengujian Torsi Mesin AC Asinkron/Induksi 3 Fase 5. Generator Induksi 6. Simulasi Transformasi Clarke dan Transformasi Park									
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> <tr> <td>Post Test</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	Post Test	LO1 LO2 LO3
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Lab Work Report	LO1 LO2 LO3									
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Indirect Assesment	Questionnaire (EDOM)									
References	[1] Chapman, Stephen J., 2005, Electric Machinery Fundamentals, 4th., McGraw-Hill [2] Wildi, Theodore. 2002. Electrical Machines, Drives, and Power Systems, 5th., Prentice Hall [3] Paul C. Krause, 1986, "Analysis of Electric Machinery", McGraw-Hill Series in Electrical Engineering ISBN 0-07-035436-7									