

Course Code	TKIE162102P											
Course Name	Signals and System Lab Work											
Course Instructors	Indah Soesanti											
Course Type	Required											
Course Classification	Engineering Topics											
Credit / Contact Hour per Week	1 /50 minutes per Week											
Course Description	This lab work goal is to improve the understanding of student on fundamental signal and system theory, for example convolution, ODE, frequency response, LTI system, and Discrete Time-based System											
Prerequisites Courses	TKIE162102 - Signal and System											
Covered Student Outcome	Development of Engineering Solution (b) Engineering Design (c) Modern Tools Utilization (e) Multidisciplinary Teamwork (h) Sustainable Learning (k)											
Learning Outcome	1. Students are able to analyze the system to know the character of the system 2. Students are able to develop LTI system based on system character (frequency response, impulse response, or transfer function) 3. Students are able to motivated to continue the learning process to the continuation course and apply the mindset of this course in daily life											
Topic	1. Convolution 2. Ordinary Differential Equation 3. Frequency Response of Continuous LTI System Time 4. Discrete Time System											
Direct Asessment	<table border="1"> <thead> <tr> <th>Direct Asessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Weekly Lab Report</td> <td>LO1, LO2</td> </tr> <tr> <td>Lab Activity</td> <td>LO3</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Direct Asessment Plan	Measured Learning Outcome	Weekly Lab Report	LO1, LO2	Lab Activity	LO3				
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Lab Activity	LO3											
Indirect Assesment	Questionnaire and direct communication											
References	[1] Oppenheim, Allan V.; Willsky, Ian, 1987, Signals and Systems, New Delhi, Prentice Hall of India [2] Kamen, Edward W. ; Heck, Bonnie S., 1997, Fundamentals of Signals and systems using Matlab, New Jersey, Printice Hall											