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Lab Exercises

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2.63 % 1 of 38 topics complete

00-Lab Reports - requirements and help



00c4-Sample Report-2026

PDF document



Technical Report Writing Guide

Word Document



Report Writing Guidelines

Word Document



Lab Report Grading

Word Document



00-Safety Quiz-Jan 14,15,16



ECET Laboratory Safety Rules

Word Document



ECET Lab Safety Quiz

External Learning Tool



01-Lab-Basic Circuits-Jan 14,15,16



01-Lab-Basic Op Amps-+&-5V-2025-b

Word Document



01-Video-Lab-Basic Op Amps Demo

External Learning Tool



Station and cables layout - Photos


Word Document



01-Lab-Basic Circuits-Report Submission

Assignment



 Due January 19 at 8:00 AM

02-Lab-Impedance Combination-Jan 21,22,23



02-Lab-Impedance Combination Procedures



PDF document

02-Lab-Full Video-Impedance Combination




External Learning Tool

02-Lab-Impedance Combination-Report Submission



Assignment

 Due January 26 at 8:00 AM

03-Lab-RC with Differential Equations-Jan28,29,30



03-Lab-RC With Diff Eq - Procedures

PDF document



Measuring Transient Grain and Time Constant-new scope


PDF document



03-Lab-RC with Diff Eq - Report Submission

Assignment



 Due February 2 at 11:59 PM

04-Lab-RL with Differential Equations-Feb4,5,6



04-Lab-RL with Diff Eq Procedures


PDF document



04-Lab-RL with Diff Eq Report Submission

Assignment



 Due February 9 at 8:00 AM

05-Lab-RC with Laplace Transforms-Feb12,13,18



05-Lab-RC Laplace Procedures



PDF document

Prelab tutorial



PDF document

Lab prep-Lag NI -seed



MS14 File

Lab prep-Lead-INV-seed




MS14 File

05-Lab-RC Laplace Report Submission



Assignment

 Due February 17 at 8:00 AM

06-Lab-RLC Circuits-Feb19,20,25



06-Lab-Series RLC Procedures

PDF document



06-Lab-Series RLC Report Submission

Assignment



Due February 24 at 11:59 PM

07-Lab-LC Filters-Feb26,27,Mar4



07-Lab-LC Low Pass Filter Procedures

PDF document



07-Lab-LC Filters Report Submission



Assignment

 Due March 3 at 8:00 AM

08-Lab- Wednesday lab - Mar4-LC Filters - NO lab for Thursday and Friday lab sections



09-Lab-2nd Order Butterworth Filter-Mar11,12,13- May be completed EARLY.



9-Lab-Second Order Butterworth Filters Procedures



PDF document

9-video demo-Butterworth LP Filter



Video

Frequency Response Analysis

PDF document



09-Lab-2nd Order Butterworth Report Submission

Assignment



Due March 23 at 8:00 AM

10,11,12,13-Lab-Filter Project-Mar 25-Apr 17



11-12-13-Filter Design Project-Spring 2026

PDF document



14-Lab-Motor Characteristics- April 22,23,24



13-Arduino-Shield Motor Driver and Sensor-2026

PDF document



1-shield drives motor-motor static characteristics - new motor-10msec

Text File



2-shield drives motor-motor step test - new motor-10msec

Text File



15-Lab-PI Motor Control-Apr29, 30, May1



15-Arduino PI Motor Speed Control

PDF document



3-shield drives motor-motor PI control-step
test-new motor-10msec

Text File



4-shield drives motor-motor PI control-
statictest-new motor-10msec1

Text File

