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Key Elements of

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System

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Tour with Sarah

What is

Mechatronics ?

The Very Basics

In 7 Minutes:

Tutorial 1 **How**

to Setup a

Robotics and

Mechatronics Lab

in a Small Room:

Time-lapse,

Organization,

and Tour

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bulb with a
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Mechanical Vs.

Electrical

Engineering: How

to Pick the

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B: Operational

Amplifiers,

Active Lead /

Lag Controllers,

and Active

Filters

Introduction:

This lab is an introduction to the most versatile linear integrated circuit (IC)

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used: the operational amplifier. You will also become familiar in this lab with active controllers and active filters.

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will often find
yourself in need
of customized
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systems to fit

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the plant and
control scheme
that you are
attempting to
implement. Lab
Windows is a
software

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Exercise #1,
Analog
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Read PDF Introduction To Mechanics,

Part A:

Resistors,

Capacitors,

DC/AC Circuits,

RC (Filter)

Circuits,

Lead/Lag

Controllers,

Input/Output

Impedance,

Loading Effects

Introduction:

This lab is a

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review of the
two most
fundamental
electronic
components, the
resistor and
capacitor,
together

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Experience: You
are required to
complete the
following: 1.

Electronics

Exercise 1:

Overview of

Electronics Test

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Introduction To Mechatronics Equipment, Soldering, and RC Filters (No Report) (1 week)

2. Electronics
Exercise 2: 555
Timer and its
applications (No
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- 3.

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ME 3200
Mechatronics
Laboratory. Lab
Exercices 4:

Introduction to
Handy Board.

Introduction.

The purpose of
this lab is to
give you
experience with
microcontrollers
. Their small
size, relatively

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price, and ever
increasing speed
makes them ideal
for control
applications
where a large
computer is not
necessary or the
space is not ...

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~~Exercise 3~~

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Exercise #1,
Analog
Electronics,

Part B:

Operational
Amplifiers,
Active Lead /
Lag Controllers,
and Active
Filters

Introduction:

This lab is an
introduction to

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the most

versatile linear

integrated

circuit (IC)

used: the operational amplifier. You will also become familiar in this lab with active controllers and active filters.

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Description.

This book
contains
mechatronics
laboratory
exercises
designed to give
the student

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hands-on

experience with
applications of
the concepts
covered in a
mechatronics
course. 14
laboratory
exercises are
included plus a
section that has
a list of
suggested
extended or

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final projects.

The first six
laboratory
exercises are

designed to
illustrate basic
measurements,
electrical
circuits and
electronic
concepts.

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The clips show
and describe
electronic
components,
mechatronic
device and
system examples,
and laboratory
exercise
demonstrations.
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uses a custom-
written C
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serial port code
(ser.c/h) is
based on Regulus
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from
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opportunity to
understand and
apply
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concepts to
actual problems
encountered in

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ways to examine
the behaviour of
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a variety of
physical systems
commonly used in
control

applications.

And you'll
develop an
understanding of
the operational
behaviour of
control systems.

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Lab Session:

Spring Semester

(FS). Mo,

12.00-14.00; Mo,

14.00-16.00,

Tue,

13.00-15.00;

Tue,

15.00-17.00. The

exercise

sessions will

take place in

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CLA H16

Language:
English ECTS
credits: 4

Prerequisites:
Students are
expected to be
familiar with C
programming.
Registration is
mandatory and
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students.

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