

ME353: Mechatronics

Spring 2020

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Schedule

Date	Lecture 1	Lecture 2	Project Progress (Due)	Report
22-Jan	Introduction and Overview	Systems/design	Semester Starts	
29-Jan	Introduction to Boolean Algebra	sketching/elctromechanical elements	form groups, Brainstorming	
5-Feb	Boolean Algebra (CDL/KM)	Motors	Brainstorming, initial sketches	
12-Feb	Boolean Algebra (LBD)	Physical Logic and Transistors	Vendors Spec'ed, refined sketches due	
19-Feb	Boolean Algebra (PAL, PLA,memory)	Sensors	Technical Illustrations and Cost Report	
26-Feb	Synchronous Systems	Drivers	CAD drawings done, and parts received	Rough Outline
4-Mar	DLD Basics	Signals, Data Handling	Machining started	
11-Mar	DLD	DLD	Major machining done / DLD project 1	Detailed Outline
18-Mar	Spring Break			
25-Mar	PIC Basics	Computer Architecture	All machining done / DLD project 2	
1-Apr	Assembly Flow/ Polling	Assembly / Counting Program	Robot assembled /	
8-Apr	Assembly A->D	Assembly Interrupts / PWM	PIC project 1	Rough Draft
15-Apr	Conference	Conference		
22-Apr	C18 libraries	C18 intro	PIC, sensor/motor -driver working	Revised Draft 2
29-Apr	C18 pwm	C18 a/d	Robot avoiding ring edge	
6-May	PID on a PIC	STUDY BREAK		
13-May	Debugging	Demonstrations	Final Robot	Final Report