

ME353: Mechatronics

Spring 2018

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Schedule

Date	Lecture 1	Lecture 2	Project Progress (Due)	Report
17-Jan	Introduction and Overview	Systems/design	Semester Starts	
24-Jan	Introduction to Boolean Algebra	sketching/elctromechanical elements	form groups, Brainstorming	
31-Jan	Boolean Algebra (CDL/KM)	Motors	Brainstorming, initial sketches	
8-Feb	Boolean Algebra (LBD)	Physical Logic and Transistors	Vendors Spec'ed, refined sketches due	
14-Feb	Boolean Algebra (PAL, PLA,memory)	Sensors	Technical Illustrations and Cost Report	
21-Feb	Synchronous Systems	Drivers	CAD drawings done, and parts received	Rough Outline
1-Mar	DLD Basics	Signals, Data Handling	Machining started	
7-Mar	DLD	DLD	Major machining done / DLD project 1	Detailed Outline
14-Mar	Spring Break			
21-Mar	PIC Basics	Computer Architecture	All machining done / DLD project 2	Rough Draft
28-Mar	Assembly Flow/ Polling	Assembly / Counting Program	Robot assembled / PIC project 1	
4-Apr	Assembly A->D	Assembly Interrupts / PWM	PIC project 2	Revised Draft 1
11-Apr	C18 libraries	C18 intro	PIC project 3	Revised Draft 2
18-Apr	C18 pwm	C18 a/d	PIC, sensor/motor -driver working	
25-Apr	PID on a PIC	demonstrations	Robot avoiding ring edge	
2-May	finals	finals	Final Robot	Final Report