

CENG-336 Syllabus (Spring'06)

Weeks	Lectures	Recitations / Labs	Others
Week - I Feb 19, 2007	(i) Course Objectives (ii) Introduction to Embedded Systems	Introduction to PIC Lab Boards	Lab schedule, Introduction to PIC16 series microcontrollers and tools (Board and winPic).
Week - II Feb 26, 2007	Basic Microprocessor Architecture	PIC Assembly Language and MpLab	Lab Groups to be determined. Lab Boards to be handed over to each group.
Week - III Mar 05, 2007	Assembly Language Programming	PIC Assembly Language and MpLab	Assignment of Homework-1 Due Date: Mar 16
Week - IV Mar 12, 2007	Input / Output	PIC's I/O ports	Assignment of Homework-2 Due Date: Mar 25
Week - V Mar 19, 2007	Input / Output	C Compiler for PIC (SDCC)	Demo for Homework2
Week - VI Mar 26, 2007	Interrupts	PIC's Interrupts	Assignment of Homework-3 Due Date: Apr 8
Week - VII Apr 02, 2007	Interrupts	PIC's ADC (Analog/Digital Convertor)	Demo for Homework3
Week - VIII Apr 09, 2007	Timers	PIC's Timers	
Week - IX Apr 16, 2007	Serial Communication	§ Serial Communication § Introduction to PIC18 series microcontrollers and tools	Assignment of Homework-4 Due Date: Apr 29
Week - X Apr 23, 2007	Analog/Digital Conversion (ADC)	Introduction to FreeRTOS	Assignment of Term Project Due Date: May 20
Week - XI Apr 30, 2007	Operating Systems / Scheduling	MpLab C18 Compiler	Midterm Demo for Homework4
Week - XII May 07, 2007	Real-Time Operating Systems	Q&A Session	
Week - XIII May 14, 2007	Real-Time Operating Systems	Q&A Session	
Week - XIV May 21, 2007	Real-Time Operating Systems		Demo Days for Term Project

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Class Schedule:		Tue 13:40-15:30	BMB-2 & 3 (Lecture)	
		Thu 12:40-13:30	BMB-2 & 3 (Recitation / Lab)	
Midterm:	25%	Quizes:	10% (Bonus)	
Final Exam:	35%	Homeworks:	25% (4, 6, 7, 8)	
		Term Project:	15%	