Short Term Course on MedelSystems Lesing Roganning

Time	Topic / Event	Remarks
Day-1	New registrations if any, distribution of course material,	
	Inauguration, finalization of Time table, overview of	Venue –VLSI Lab.
	course activities.	
Day-2	Introduction to Embedded Systems, hardware/software	
	co-design, Embedded micro controller cores (ARM,	
	RISC, CISC, SOC), embedded memories, Examples of	
Dary 2	embedded systems.	
Day-3	Real-time concepts, Real-Time Operating Systems,	
	traditional OS) A rabitactures of Embadded systems	
	traditional OS). Architectures of Embedded systems.	
Day-4	AVRRISC controllers, parallel I/O, external interrupts.	
Day-5	Development Tools (assembler, simulator, Code vision	Extensively on
	"C" complier, loader)	Embedded "C"
		programming
Day-6	Practical on above topics	Hands on practice
Day-7	Serial communications: SCI, SPI, Timing generation	
	and measurements. Data acquisition.	
Day-8	Practical on above topics	Hands on practice
Day-9	Interfacing with Switches, Keyboards, LED's, LCD's,	
	Transistors for uc - controlled switches, uc - controlled	
	relays, solenoids, DC, AC motors and stepper motors	
Day-10	Practical on above topics	Hands on practice
Day-11	Introduction to PCB design (EAGLE software)	Free to every
	AVRRISC Controller minimum system design,	participant
	components distribution (PCB, Atmega8535, LCD,	
Day 12	KBD, MAX232, power supply etc.)	La dividual
Day-12	Memory and High graad I/O Interfacing Analag	Individual
Day-15	interfacing and Data Acquisition Systems, Transducers	
	used in embedded systems. Digital Control Systems	
	Fuzzy logic control systems. Digital Filters	
Day-14	Project demonstration and certificate distribution	Softcopy not more than
		five pages