

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	13/7/15	E's defn, E's vs MCPS, History of E.S	I	Black board		
2	15/7	classification of Embedded Systems	"	"		
3	17/7	major application areas, purpose of Embedded Systems.	"	"		
4	17/7	Core of the embedded system	"	"		
5	20/7	memory	"	"		
6	22/7	sensors & Actuators	"	"		
7	24/7	Communication interfaces, Embedded s/w.	"	"		
8	24/7		"	"		
9	27/7	other system components & PCB & passive components	"	"		
10	29/7	Characteristics of E.S.	II	"		

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11	31/7	Quality Attributes of E.S	"	Black-board		
12	31/7		"	"		
13	3/8	Application specific Air-washing machine	"	"		
14	5/8	Domain specific Example of TSC Automotive	"	PPT		
15	7/8	Embedded Hardware: Analog & Digital	III	PPT		
16	7/8		"	"		
17	10/8	I/O Types & Examples	"	"		
18	12/8	Serial Communication devices	"	"		
19	14/8	Parallel device Ports Wireless devices	"	Black-board		
20	14/8	Timer & Counting devices	"	"		
21	17/8	Watch Dog timer Real time clock	"	"		
22	19/8	VLSI & IC Design	"	"		

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23	21/8	EDA Tools, ORCAD	"	PPT		
24	21/8	EDA Tool / PCB Layout design	"	"		
25	24/8	Embedded FM design approaches	IV	Slide board		
26	26/8	Embedded FW development Languages, ISL Concept	"	"		
27	29/8	Interrupt Sources, Interrupt servicing mechanisms,	"	"		
28	28/8	multiple interrupts	"	"		
29	31/8	DMA (Direct memory Access)	"	"		
30	2/9	Device Driven programming	"	"		
31	4/9	C Vs Embedded C	"	"		
32	4/9	Compiler Vs Cross- Compiler	"	"		
7/9/15 -			12/9/15 →	I MID EXAMNS.		

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33	14/9	<u>RTOS</u> O.S Basics, Types & O.S. Tasks.	<u>IV</u>	PIT		
34	16/9	Process & Threads	"	"		
35	18/9	Multi-processing & Multi-tasking.	"	PPT		
36	18/9	Task Scheduling.	"	"		
37	21/9	Threads, Processes, & Scheduling	"	"		
38	23/9	Task Communication	"	"		
39	25/9	Task Synchronisation Device Drivers	"	"		
40	25/9	How to Code RTOS.	"	"		
		H/W-S/W Co-Design	<u>VI</u>			
41	28/9	Fundamental Issues in H/W-S/W Co-design	<u>VI</u>	PPT		
42	30/9	Computational Models in E.S design.	"	"		
43	5/10	H/W-S/W Trade offs.	"	BB		

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44	7/10	Incremental emulation	"	PPT		
45	9/10	Integration of Hardware and Firmware	"	PPT		
46	9/10		"	"		
47	12/10	Issues in Embedded System design.	"	PPT		
48	14/10	—	"	"		
		<u>E-S development</u>				
49	16/10	The Integrated development Environment, Target H/w debugging	VII	PPT		
50	16/10		"	"		
51	19/10	Types of files generated on cross- compilation.	"	"		
52	21/10		"	"		
53	23/10	De assembler/debugger	"	"		
54	23/10	Simulator/Emulator debugging	"	"		
55	26/10	Embedded S/W	"	PPT		

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