

BB → Black board

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(1)	20/1/15	Introduction	I	BB		
(2)	21/1/15	IC technologies Comparison Moore's law etc.	I	"		
(3)	22/1/15	Basic MOS transistor dep.	I	"		
(4)	23/1/15	Enhancement mode operation	I	"		
(5)	23/1/15	IC production process	I	"		
		N-MOS fabrication P-MOS fabrication				
(6)	23/1/15	CMOS fabrication	I	"		
(7)	27/1/15	Bicmos technology discussion	I	"		
(8)	29/1/15	comparison of various IC technologies	I	"		
(9)	29/1/15	I_{AS} , V_i , V_{AS} relationship	II	"		
(10)	30/1/15	Aspects of MOS transistor threshold voltage	I	"		
(11)	30/1/15	MOS transistor transconductance and figure of merit	II	BB		
(12)	3/2/15	Pass transistor, N-MOS inverter	II	BB		
(13)	5/2/15	pull up to pull down ratio	II	BB		
(14)	5/2/15	pull up to pull down ratio with two pass transistors	II	BB		

with two pass transistors

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Period	Date (dd/mm)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
15	9/2/15	Alternative forms of push-up	II	RS		
(16)	10/2/15	Crises				
		Investor				
(17)	10/2/15	SEMP	II	RS		
		Quarter				
(18)	12/2/15	Logarithmic Pa	II	RS		
		Exponential				
		and logarithmic				
(19)	13/2/15	Stock diagrams	II	RS		
		Stock diagrams				
(20)	13/2/15	Design rules and layout	II	RS		
(21)	17/2/15	Standard Method of laying out	II	RS		
		Rules				
(22)	20/2/15	Chassis layouts	II	RS		
		Rules				
(23)	20/2/15	Metals, poly	II	RS		
(24)		Chassis layout				
(25)	24/2/15	Layout diagrams of simple circuit	II	RS		
(26)	24/2/15	Layout diagrams of complex	II	RS		
(27)	26/2/15	Symbolic Diagram - Translation to pictorial	II	RS		
(28)	28/2/15	Sheet resistance, applied to	II	RS		
		MC + transistor				
(29)	31/3/15	Sheet resistance applied to diodes	II	RS		
(30)	31/3/15	Area capacitance of square and	II	RS		
		Standard circuit of capacitance				

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Period	Date (tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(31)	5/3/15	Area capacitance calculations per unit	IV	BB		
(32)	5/3/15	Inverter delay	IV	BB		
(33)	6/3/15	Driving large capacitance loads	III	BB		
(34)	12/3/15	propagation delays driving capacitance	IV	BB		
(35)	10/3/15	fan-in and fan-out of logic gates	IV	BB		
(36)	12/3/15	Realization of logic circuits using CMOS	IV	BB		
(37)	17/3/15	Scaling of logic transistors Models and factors affecting parameters	IV	BB		
(38)	17/3/15	Scaling with area	IV	BB		
(39)	19/3/15	Limitations of scaling due to increasing density	IV	BB		
(40)	19/3/15	On-chip supply networks, buffers, etc.	IV	BB		

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Period	Date (Month)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(1)	26/3/15	architecture Issues	I	BB		
(2)	24/3/15	Introduction to to digital logic and gate logic	I	BB		
(3)	24/3/15	Introduction to PLA	VI	BB		
(4)	24/3/15	PLA, PLA with multiplexer	VI	BB		
(5)	24/3/15	Implementation	VI	BB		
		approach in VLSI design				
(6)	29/3/15	Full custom design	VI	BB		
(7)	31/3/15	Semi custom design	VI	BB		
(8)	31/3/15	Gate arrays and reprogrammable	VI	BB		
(9)	2/4/15	CPLDs	VI	BB		
(10)	2/4/15	FPGAs, design issues	VI	BB		
(11)	3/4/15	Digital system design process	VI	BB		
(12)	7/4/15	VLSI CKT design process	VI	BB		
(13)	7/4/15	HDL Simulation	VI	BB		
		Synthesis				
(14)	9/4/15	Introduction to VHDL	VI	BB		
(15)	9/4/15	Requirements, abstraction, elements of VHDL	VI	BB		
(16)	10/4/15	Libraries, objects and classes	VI	BB		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
68	30/4/15	Revision of		BB		
		cent - V, VI		BB		
69	30/4/15	Revision of		BB		
		VII, VIII				
70	1/5/15	Discussion of		BB		
		previous yr's paper				8/10/1