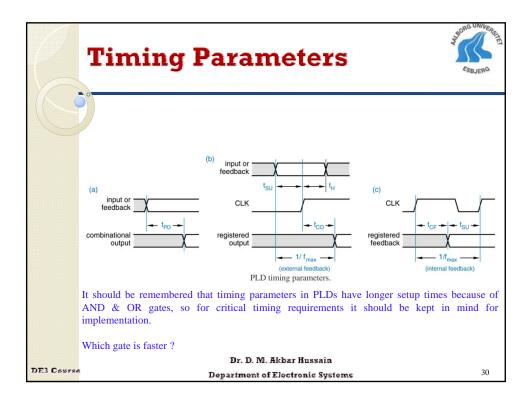
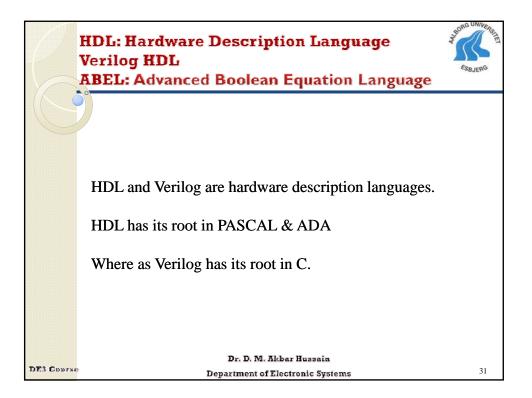
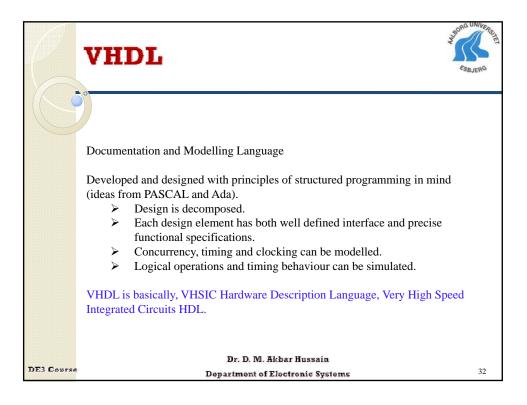
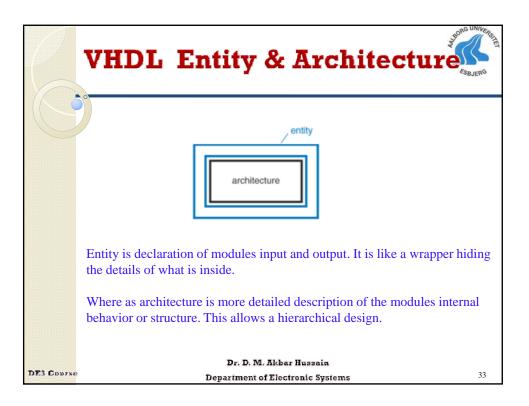


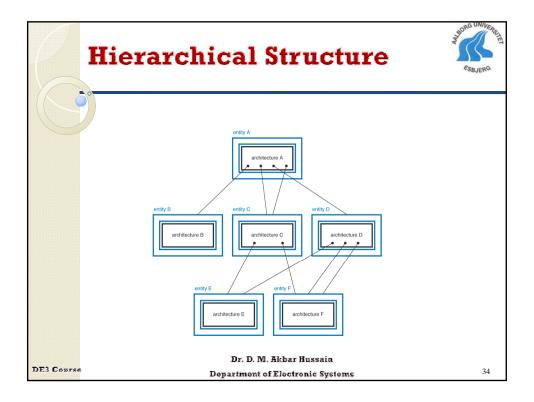
]	liming Spec	ific	ca	tic	n	S	Corres	ESBJER
5	Part numbers	Suffix	t <sub>PD</sub>	t <sub>co</sub>	t <sub>CF</sub>	t <sub>SU</sub>	t <sub>H</sub>	
	GAL16V8D, GAL20V8B	-7	7.5	5	3	7	0	
	GAL16V8D, GAL20V8B	-10	10	7	6	10	0	
	GAL16V8D, GAL20V8B	-15	15	10	8	12	0	
	GAL16V8D, GAL20V8B	-25	25	12	10	15	0	
	GAL22V10D	-7	7.5	4.5	3	4.5	0	
	GAL22V10D	-10	10	7	2.5	7	0	
	GAL22V10D	-15	15	8	2.5	10	0	
	GAL22V10D	-25	25	15	13	15	0	
	$\label{eq:product} \begin{array}{l} \text{Timing specifications, in nanosed} \\ t_{\text{PD}}: Propogation delay \\ t_{\text{CO}}: Propagation delay from the rising edge of the cloc \\ t_{\text{SU}}: Setup time during which signal mu \\ t_{\text{H}}: Signal at D input must be hold for t \end{array}$	dge of the k to the ma st be stable	clock crocell			evices	in DIPs.	
GDD758	Dr. E Deparime	). M. Akba						2

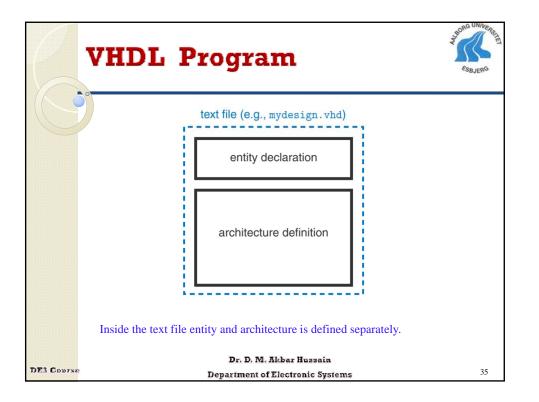


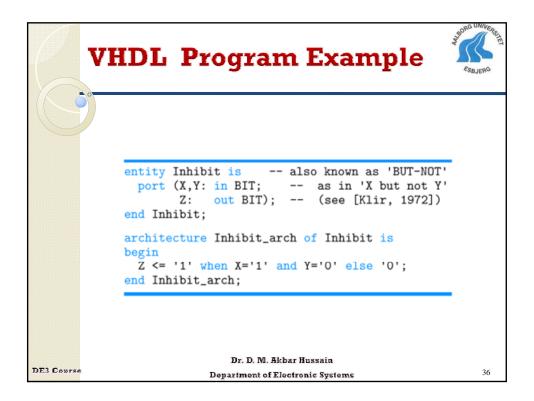


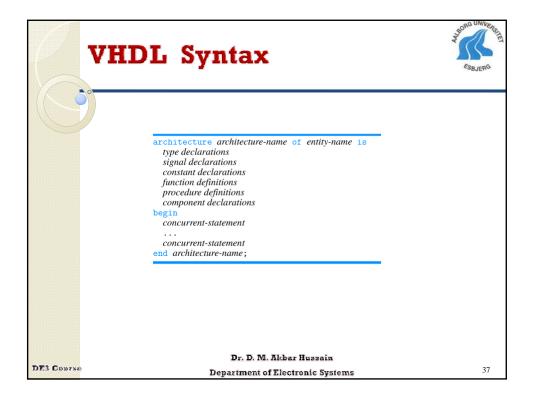








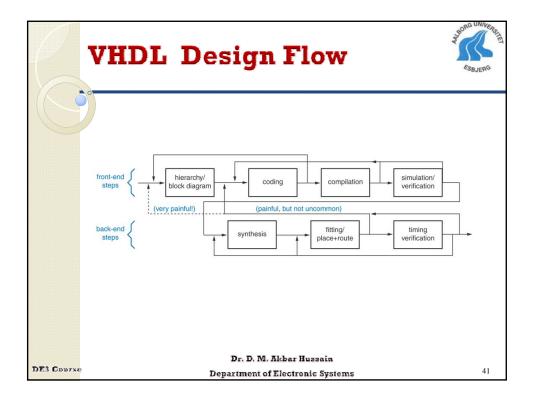


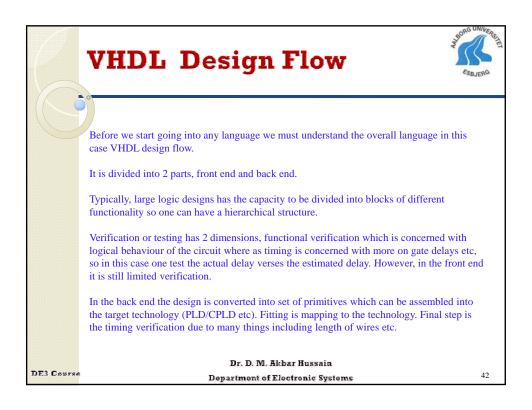


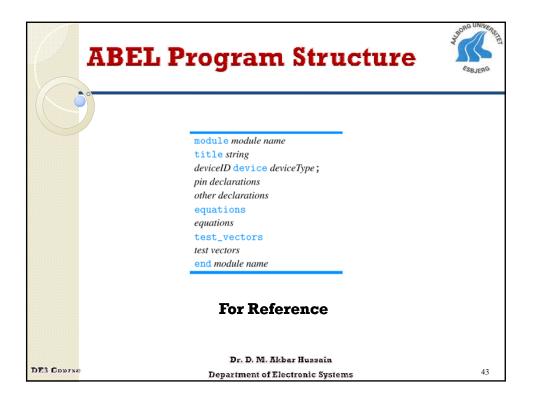
VE	IDL Pr	edefin	ed Types	ESBJERG
	bit bit_vector boolean	character integer real	severity_level string time	
		ion or cation nam division xor remainder xnc e value not	MRD MAND NOR Exclusive OR Mr Exclusive NOR	
DE3 Course	Г	Dr. D. M. Akbar Department of Electu		38

V	HDL Function Declerat	ion essuero
	<pre>function function-name (     signal-names : signal-type;     signal-names : signal-type;      signal-names : signal-type ) return return-type is     type declarations     constant declarations     variable declarations     function definitions     procedure definitions begin     sequential-statement      sequential-statement end function-name;</pre>	
DE3 Course	Dr. D. M. Akbar Hussain Department of Electronic Systems	39

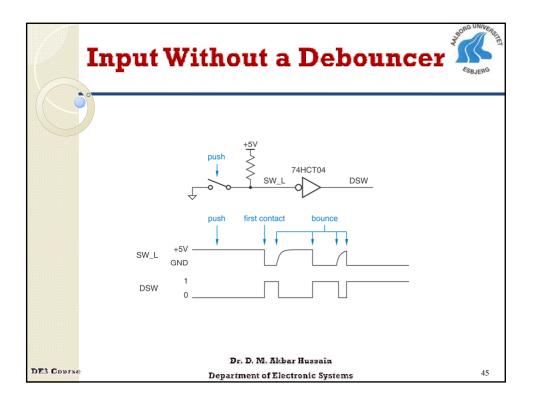
V	HDL Program with Fur	
	<pre>architecture Inhibit_archf of Inhibit is function ButNot (A, B: bit) return bit is begin     if B = '0' then return A;     else return '0';     end if; end ButNot; begin     Z &lt;= ButNot(X,Y); end Inhibit_archf;</pre>	_
DE3 Course	Dr. D. M. Akbar Hussain Department of Electronic Systems	40

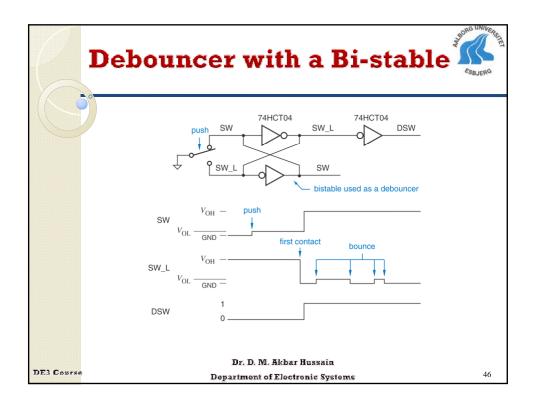


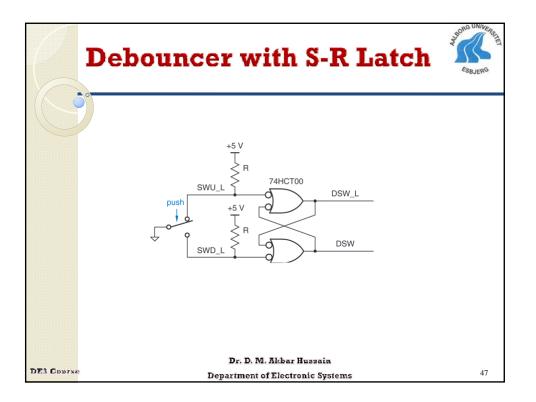


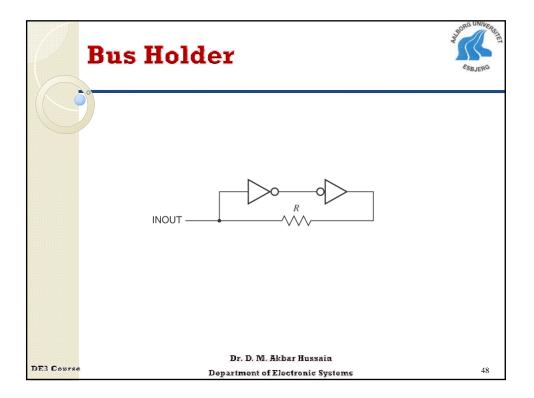


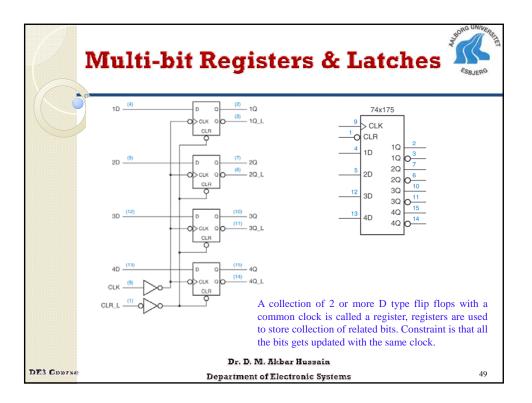
<pre>module Alarm_Circuit title 'Alarm Circuit Example J. Wakerly, Micro Systems Engineering' ALARWCK device 'Pi6V8C'; " Input pins PANIC, ENABLEA, EXITING pin 1, 2, 3; WINDOW, DOR, GARAGE pin 4, 5, 6; " Output pins ALARM pin 11 istype 'com'; " Constant definition X = .X.; " Intermediate equation SECURE = WINDOW &amp; DOOR &amp; GARAGE;</pre>	<pre>test_vectors (input-list -&gt; output-list)     input-value -&gt; output-value;      input-value -&gt; output-value;</pre>
$ \begin{bmatrix} 0 & 0 & X_1, & X_2, & X_3, & X_4, & X_5 \end{bmatrix} > \begin{bmatrix} 0 & 0 & X_1, & X_4, & X_5, & X_5 \end{bmatrix} > \begin{bmatrix} 0 & 0 \\ 0 & 1, & 1, & X_5, & X_5, & X_5 \end{bmatrix} > \begin{bmatrix} 1 \\ 0 & 1, & 0 & X_5, & X_5 \end{bmatrix} > \begin{bmatrix} 1 \\ 0 & 1, & 0 & X_5, & 0 & X_1 \end{bmatrix} > \begin{bmatrix} 1 \\ 0 & 1, & 0 & X_5, & 0 \end{bmatrix} $	For Reference

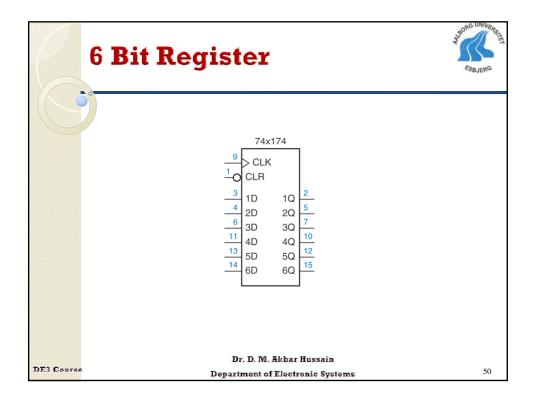


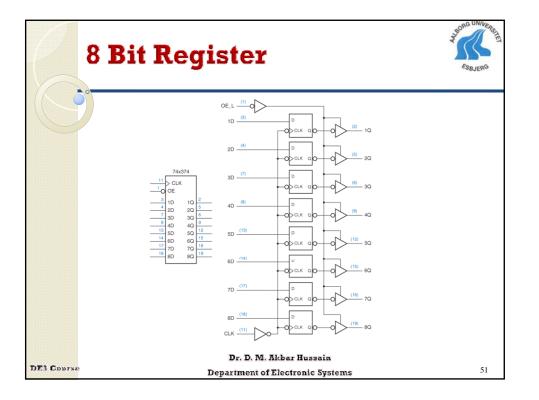


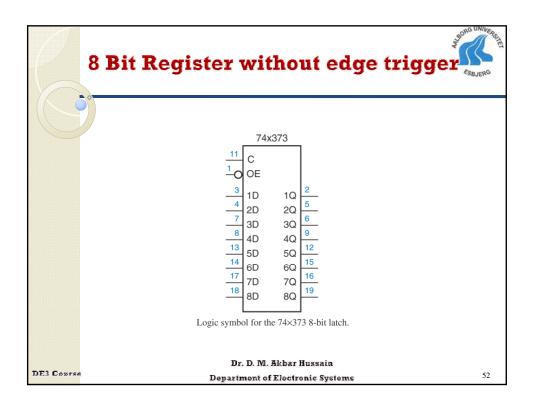


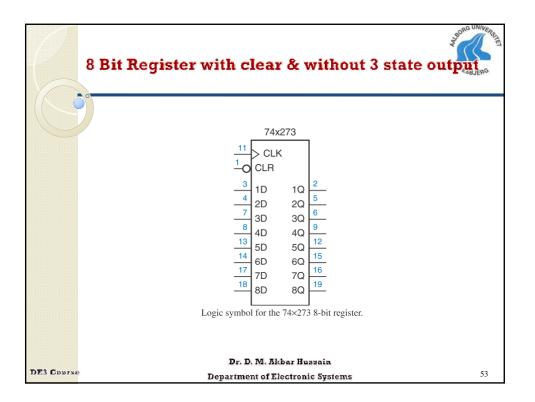


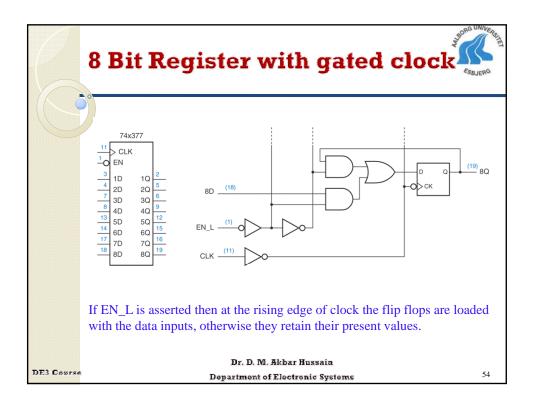


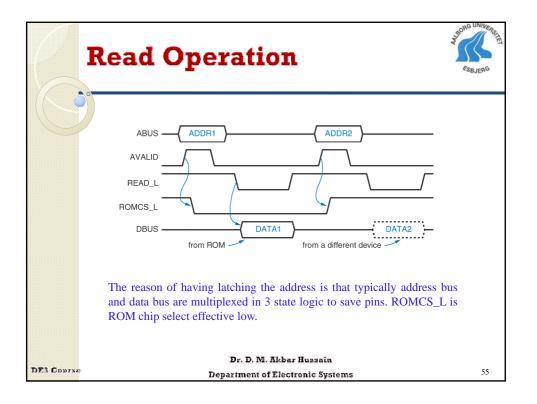


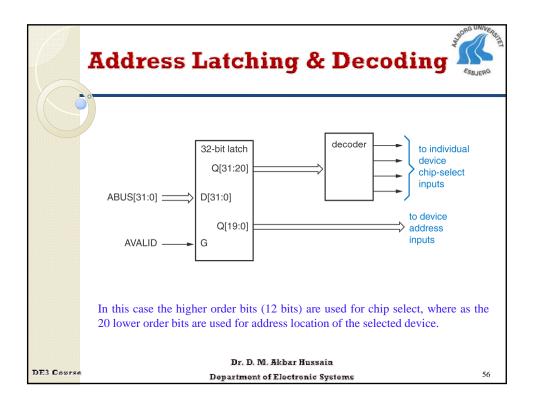


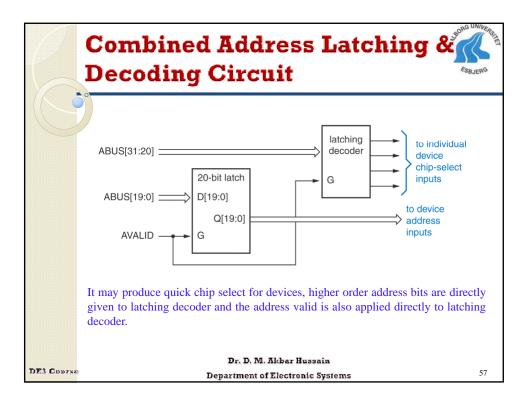


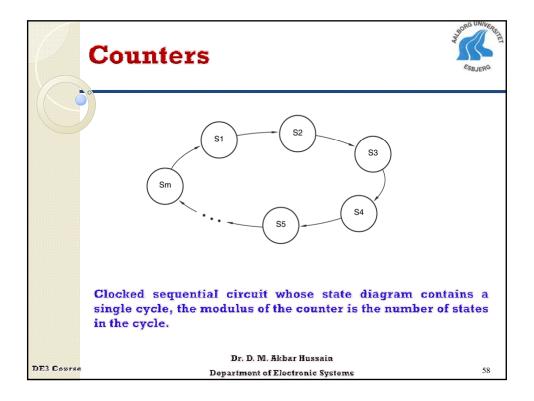


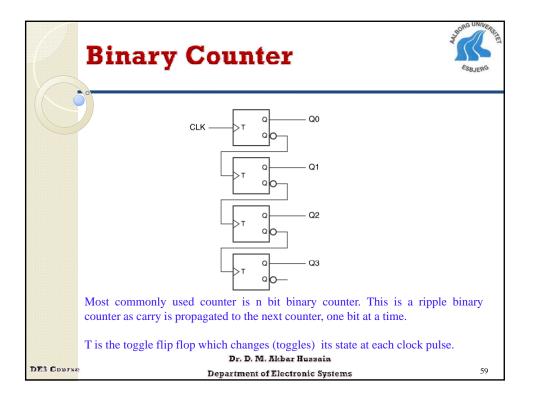


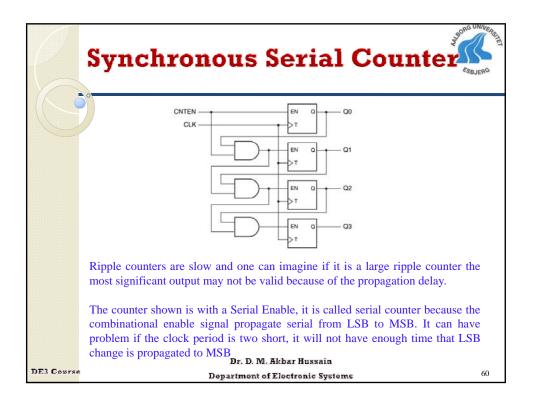


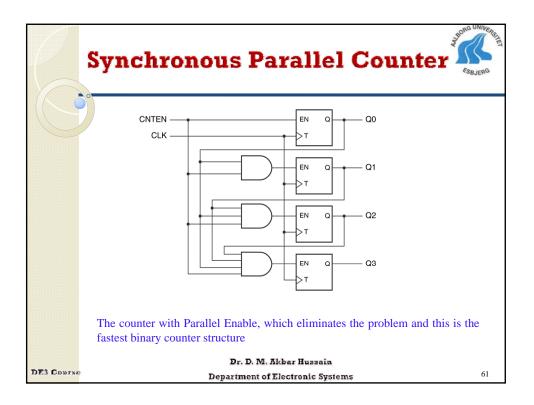












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	74x	163	_		1	0	х	х	х	х	х	х	D	С	в	A
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	L B	QB	13		1	1	1	1	0	1	1	1	1	0	0	0
Ę	5	QC	12		1	1	1	1	1	0	0	0	1	0	0	1
	-l c		11		1	1	1	1	1	0	0	1	1	0	1	0
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					1	1	1	1	1	1	1	1	0	0	0	0
Course				Dr	. D. M	Ak	bar	Huss	ain			-				-

