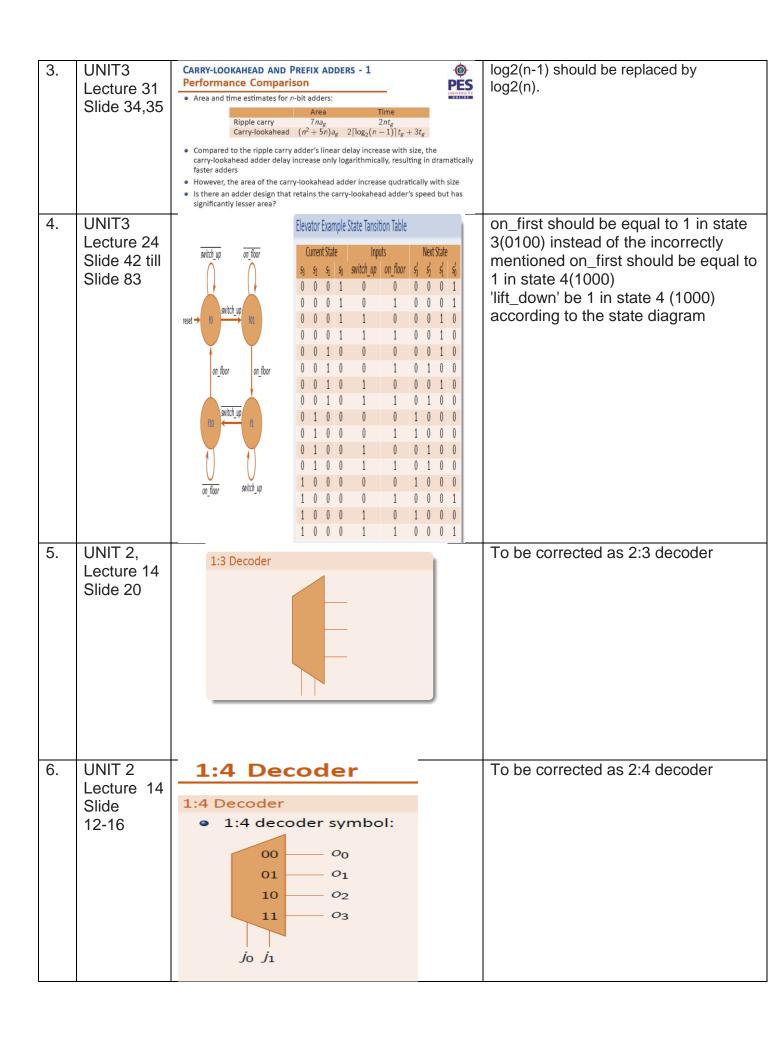
PES UNIVERSITY 3rd SEMESTER

Errata for DIGITAL DESIGN AND COMPUTER ORGANISATION Slides Uploaded to PESU ACADEMY Portal

Errata Last updated 27th October 2020

This list is a work in progress. Some of the following corrections may be revised, and additional corrections will probably be added.

SI. No	Lecture Number	Content in the slide	To be Corrected as
1.	UNIT3 Lecture 34 Slide 16	CARRY-LOOKAHEAD AND PREFIX ADDERS - 4 Associative Ripple Carry? Ripple Carry Adder • $c_{i+1} = ab + bc_i + c_i a$ • Generate and Propagate: • p_i carry generated in position i • p_i carry propagated in positions 0 to i • $p_{0:i}$ carry propagated in positions 0 to i • $p_{0:i}$ carry propagated in positions 0 to i	In the figure the labels p0: i and g0:1 need to be interchanged.
2.	UNIT3 Lecture 31 Slide 5	 Time requirements: For an n-bit ripple carry adder, critical path delay is composed of: ▶ Propagation delay from c₀ to c_{n-1} ★ Signal passes through two gates in each of the n - 1 stages ★ 2(n - 1)t_g time required ▶ Sum computation ★ 2t_g time required for three input XOR gate ♠ An n-bit ripple carry adder thus occupies 2nt_g time 	Propagation delay from c0 to c(n-1) should be 3(n-1)tg instead of 2(n-1) tg because although the carry signal passes through two gates in each stage, one of the gates has three inputs which counts as two 2 input gates



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7.	UNIT1,	а	Ь		1.6	-		а	a b	a b c
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			ruth	tabl	e				I I	1 1
8.	UNIT1,	Boolean	Algebra					Set f0: 1	Set f0; 1g	Set f0: 1g
	Lecture 4, Slide 13	0 Set	√n 1\							
	Silue 13	U Jet	χυ, τς							Operations AND, OR, NOT
		Operations AND, OR, NOT				Identity	Identity elements	Identity elements 1 (for AND),		
						0 (for O	0 (for OR)	0 (for OR)		
		(i) Ide	Identity elements 0 (for AND), 1 (for OR)					•	1 1	The state of the s
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9.	UNIT1,	а	b с	d	y		_			1.
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	Ī	he min terms for table are $F(a,b,c,d)=\Sigma(0,2,5,7,8,10,13,15)$