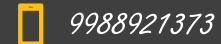
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ECE213: Digital Electronics





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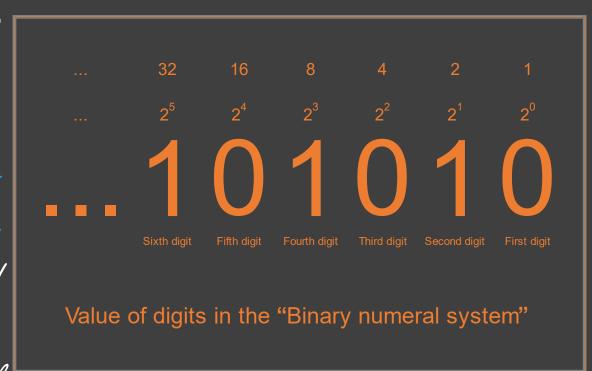




The Course Contents

Unit 1

Digital Systems, Number Systems : representation and coding, Logic Implementation of digital systems, Number Systems, Codes- Positional number system, Binary number system, Methods of base conversions, Binary arithmetic, Representation of signed numbers, Fixed numbers, Binary coded decimal codes, Gray codes, Error detection code, Parity check codes, octal number system, Hexadecimal number system, Error correction code, Hamming code, Octal arithmetic, Hexadecimal arithmetic, Floating point numbers



Number Systems Arithmetic - Addition (+, -, +, /) pu EZF 3-9 1414111

Arithmetic - Addition 101 001 11000 1.1.01.01. |· 0 |· |. | · | · 000 . 0 0 | 0 00011100

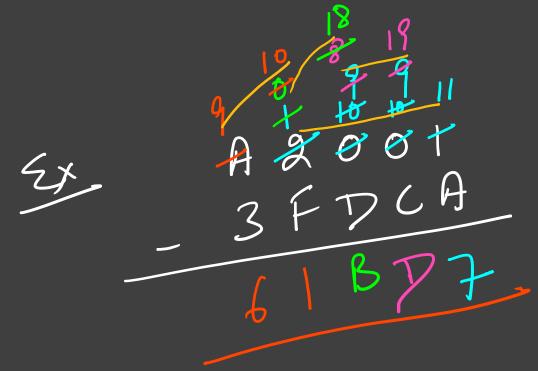
Arithmetic - Subtraction

12

36756 32256



Arithmetic - Subtraction



Arithmetic - Subtraction

Bin of to 10 11:11 10:10 Arithmetic - Multiplication

Arithmetic - Multiplication

147

47/2 = 116 47 + 4 = 234 47+5 = 363 47+6 = 352 47+7 = 421