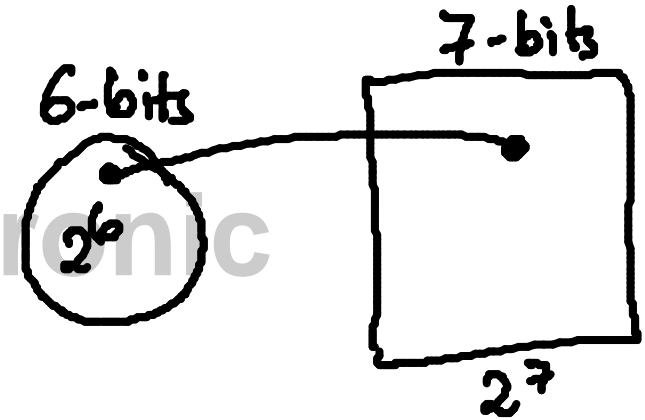


Memory — a form of communication

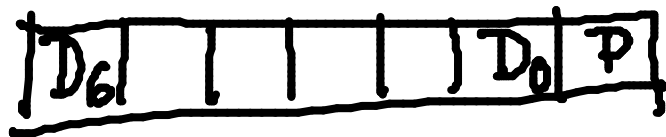


How to detect an error?

→ **redundancy**

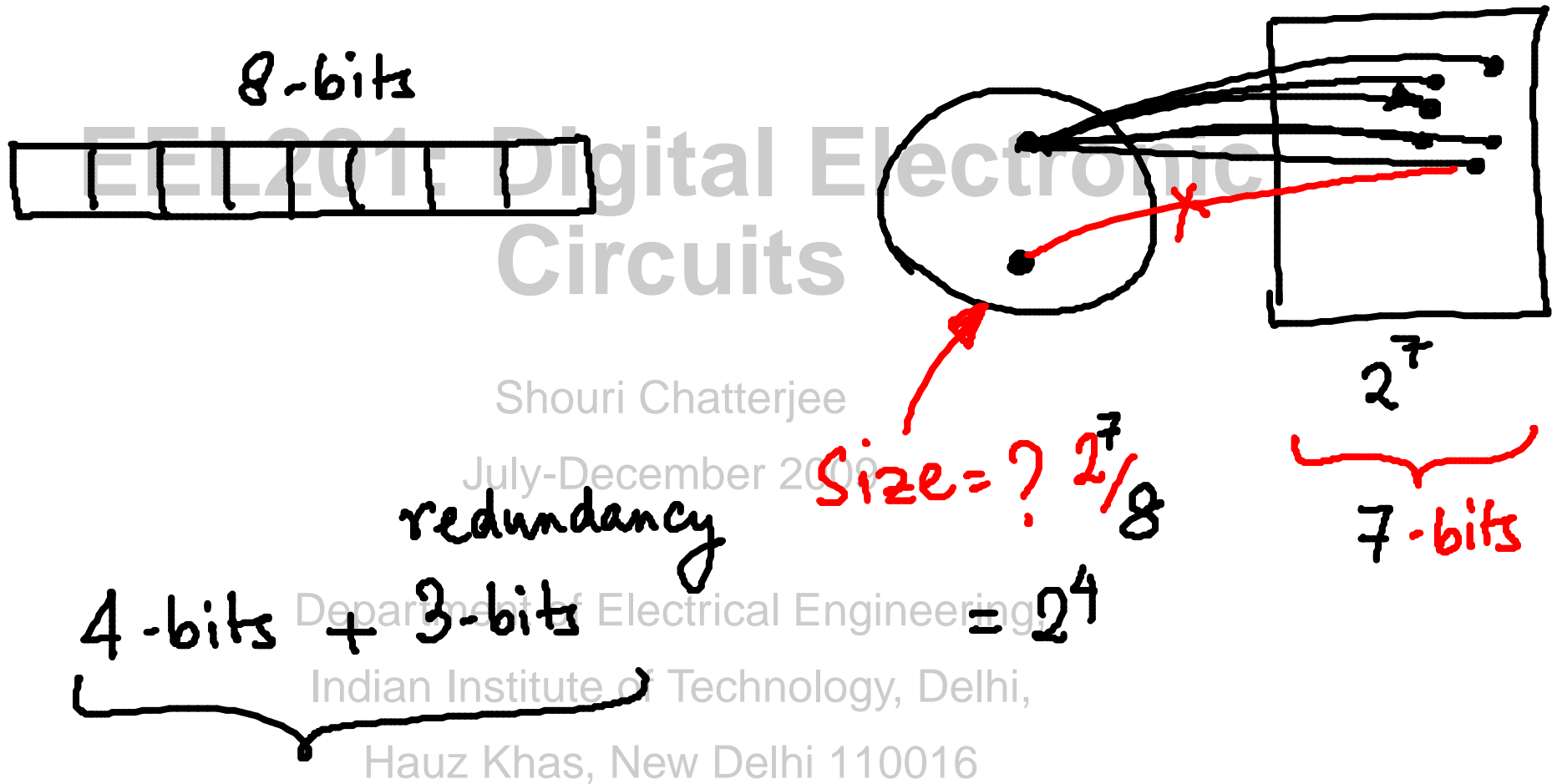
parity-bit

$$P = \text{XOR}(D_5, D_4, \dots, D_0)$$



$$\text{Error} = \text{XOR}(D_5, D_4, \dots, D_0, P)$$

# Error correction



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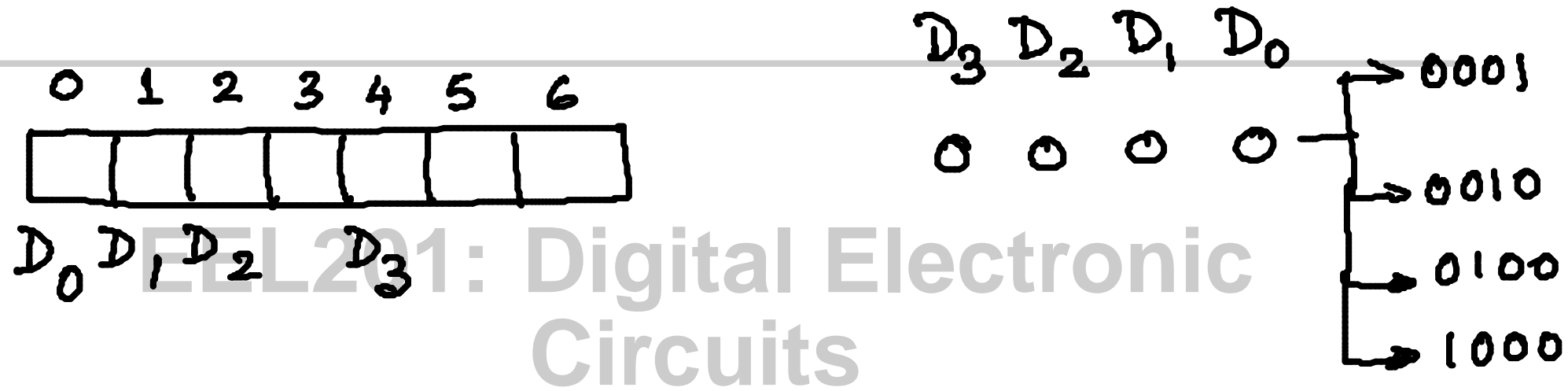
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# EEEL201: Digital Electronic Circuits

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