

# Analog to Digital Conversion

- The *Analog-to-digital Converter (ADC)* performs three functions:

- **Sampling**

- Makes the signal discrete in time.
- If the analog input has a bandwidth of  $W$  Hz, then the *minimum sample frequency* such that the signal can be reconstructed without distortion.

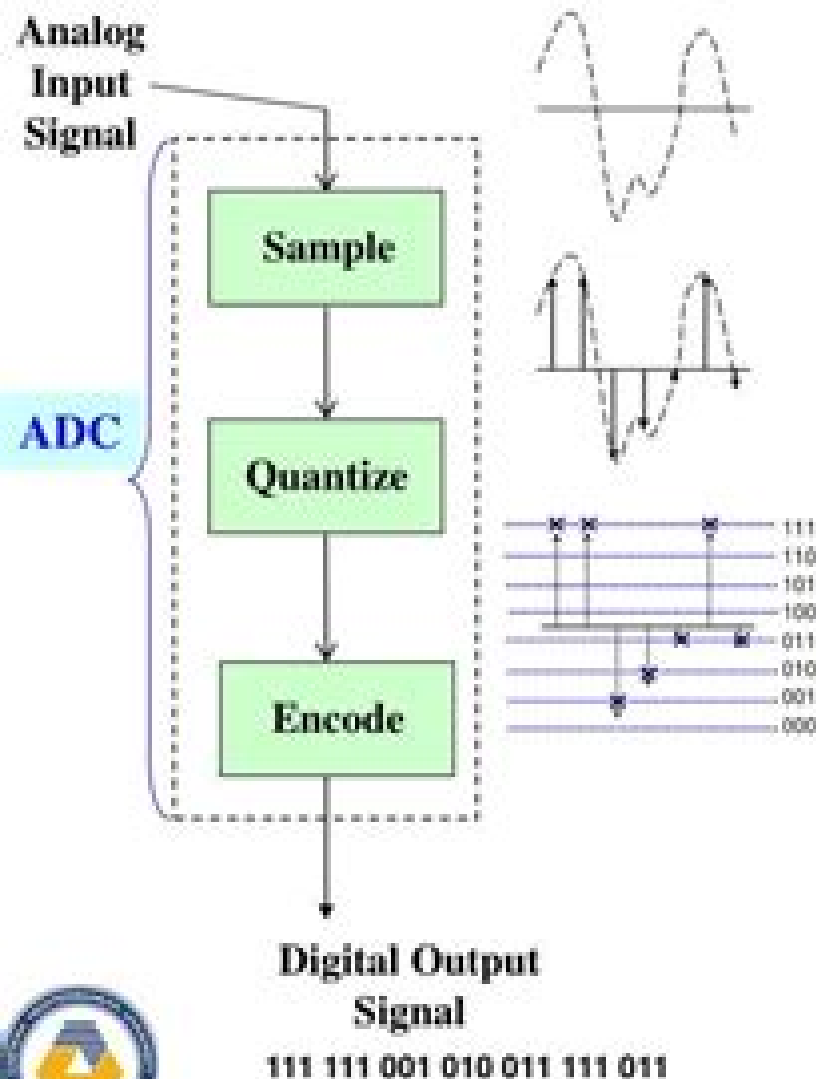
- **Quantization**

- Makes the signal discrete in amplitude.
- Round off to one of  $q$  discrete levels.

- **Encode**

- Maps the quantized values to digital words that are  $v$  bits long.

- If the (Nyquist) *Sampling Theorem* is satisfied, then only quantization introduces distortion to the system.



# Being Digital Electronification Then Analog To Digital

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