Lec- 1, CT303, 24-25, Sec-A Digital Communication (3-0-2-4) - follow up course to CT216 Introduction to Communication In addition to modules 1,2,3, we systems (ICS) will try to cover Basebound representation of parsbound signal CT:- continuo us time DT:- Discrete time CV:- Conti. Value DV:- Discrete value & Rondom processes CT-W 4 Diff. categories of signal 2 Analog vs Digital

16

26-66-DT-CV (3)

T (4)

DT-DV

Analog signal: - (1) & (2) Digital signal: - (4) roughly.

Meaning of the english word "Analog". Analogue Analogous.

malog egnel: - 9t is a quite similer

(witifedia) continuous time signal expressenting some other quantity. For ex, in an analog audio signal, the instantaneous signal voltage varies continuously with the pressure of the sound wave.

1. Continuous time (CT):- defined for every value of time & they signals or analog take on values in the continuous signals interval [a,b], where a can be - so & b

com be so. ex, rult= cas (Tt)

2. Disvecte-time signal: - defined only at certain "time instants which need not be equidistant "but in practice they are usually talem at equally spaced intervals for computational convenience & tractability.

ex- seg. of real or complex nos.

x(n) or x(nT) $ex_2 - x(n) = \begin{cases} (0.8)^n, n > 0 \end{cases}$