CT303 - Digital Communications Lecture 1 - 24 August 2020
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Image Processing, Signal Tracessing, geometry 100cess
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- Notes are important. All exams will be Open-notes
- Analog Communication - Probability and Statistics
- Communication System
1. Transmitter
2. Receiver
3. Channel
4. Information Source.
5. Noise
6. Destination
Information The Source The Charnell Rus Destination.
Analog Vs- Digital Cammunication
Analog Vs- Digital Communication

Continuous ve Discrete information. # Message ~ 00 | # Message ~ finite (Analog)

Rx: Recarstruct the merroge signal exactly (Analog)

DCS: frinte number of messages. my Signal Space

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mn;

mn; Rx: Classification Advantage of DCS 1) More noise tolerant compared to ACS. - Repeater (Rx-Tx) Repeater Repeater 2 Mersages are digital signals - encrypt (Socure Communication). 3 Digital ekts to process digital signals.

- Cheaper, compact.

- More reliable - Flexibility / Programmable Day disadvantages? 1. Synchronigation - Detide a bit rate - 50 bps - Clocks (Oscillators). P To - Synchranization of clocke. Kx 2. Under more noise - a lot of errors.

errors | lagradation in degradation.

noise noise noise noise