



Course Outlines

Course Details:

Course Code : CSE 435 Credit hours: 3.0
 Course Title : Data Communication
 Program : CSE
 Semester : Summer- 2016
 Course Teacher : Tanusree Sharma, Lecturer of CSE

Course Assessment:

The assessment components for evaluation of students are as follows:

Item/Activity	Marks (%)
Work Sheet (including class attendance and class tests)	25%
Assignment/ Presentation	10%
Mid-Term Test	25%
Final Examination	40%
Total	100%

Course Contents:

Lectures	Contents (Each lecture will be 1.5 hours duration)
Lecture-1	Analog signal
Lecture-2	Digital signal
Lecture -3	Digital transmission
Lecture -4	Digital to analog conversion
Lecture -5	Performance measure
	Assignment/Presentation
Lecture -6	Baseband Pulse and digital signaling
Lecture -7	Pulse code modulation
Lecture -8	PCM noise and companding
Lecture -9	Digital signaling
	Class Test
Lecture -10	Line code and spectra
Lecture -11	Differential encoding
Lecture -12	Parallel and serial transmission
	Class Test
	Mid-Term

Lecture -13	Multiplexing
Lecture -14	Telephone network for data communication
Lecture -15	Transmitter And Receiver
Lecture -16	Linear wave Shaping
	Assignment/Presentation
Lecture -17	Network model
Lecture -18	Pulse transformation
	Class Test
Lecture -19	Detection and correction
Lecture -20	Data link
Lecture -21	Switching Networks
Lecture -22	Bandwidth utilization
Lecture -23	Transmission media
	Class Test
Lecture -24	Overview
	Final Examination

Textbooks: Data Communications and Networking 5e · Forouzan

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