

Manipal University Jaipur

Department of Computer and Communication Engineering

Subject: Data Communication (CC2102)

Assignment-1

1. Explain three techniques of digital-to-digital conversion. CO-2
2. Distinguish between a signal element and a data element. CO-2
3. Distinguish between data rate and signal rate with a suitable example. CO-2
4. Define baseline wandering and its effect on digital transmission. CO-2
5. Define a DC component and its effect on digital transmission. CO-2
6. Explain five-line coding schemes. CO-2
7. Which characteristics of an analog signal are changed to represent the digital signal in each of the following digital-to-analog conversions? CO-2
 - a. ASK
 - b. FSK
 - c. PSK
 - d. QAM
8. Which of the four digital-to-analog conversion techniques (ASK, FSK, PSK or QAM) is the most susceptible to noise? Defend your answer. CO-2