

## **ELEC366 COMMUNICATIONS LABORATORY**

### **EXPERIMENT-5 PRE-STUDY QUESTIONS**

- 1)** Draw the modulation and demodulation circuits of 4-PSK modulation and describe their procedure. Please, write the advantages and disadvantages of 4-PSK over BPSK.
- 2)** Compare M-PSK, M-ASK, M-QAM and M-FSK modulations in terms of BW efficiency and power efficiency.
- 3)** Write the purpose of expressing the communication system in vector form. Find the basis functions for QPSK modulation and determine the vectors corresponding to the modulated signals. Draw the signal constellation.