The semester summary
        The summaries at the end of each chapter.
        Course outcomes from the class syllabus- below:

Course Outcomes
Calculate and use Fourier Series and Transforms, Energy Spectral Density and Power Spectral Density of signals.
Explain the basics of line-coding and baseband digital transmission.
Calculate the required bandwidth for baseband digital signals.
Explain the basics of analog modulation, DSB-SC, DSB-LC, SSB, VSB, FM and PM.
Compare analog modulation in terms of bandwidth and power efficiency/requirements.
Explain the operation of a superheterodyne receiver.
Use TDM, FDM, TDMA, FDMA, TDD, FDD to combine signals and calculate required bandwidth.
Explain the basics of digital modulation, ASK, FSK, PSK, QPSK, MPSK, and M-QAM, OFDM
Compare digital modulation techniques in terms of bandwidth requirements and energy/bit.
Calculate signal-to-noise ratios and perform system trade-offs using link budgets.
Compare the noise performance of DSB-SC, DSB-LC, SSB, and FM.
        Understand the system trade-offs for analog modulation techniques.
Calculate bit error rate for BPSK, QPSK, MPSK M-QAM.
        Explain system trade-offs for digital modulation techniques.
Explain the operation of OFDM/LTE systems, calculate bit rates, role of CP, and AMC.