Network, Signals & Systems (EC5.101)

Assignment – 01

Released – 9th December 2021
Due date – 16th December 2021 (11:59 pm IST)

- Solve and submit solutions to the following problems:
  - (SAS) **Chapter 1:** 1.23(a), 1.32
  - (SAS) **Chapter 3:** 3.5, 3.22(b),
  - (SAS) **Chapter 3:** Let d_k be the FS coefficients of the signal shown in Figure P3.34. Find FS coefficients of the signal shown in Figure P3.22 (f) in terms of d_k. These figures are in the Problems part of the chapter. You don't have to explicitly find expression for d_k.
  - (ECA) **Chapter 18:** 7, 26 (for problem 7, also compute and sketch exponential FS coefficients)
  - Note that the FS coefficient terminology is different in each book (which is different from the terminology used in the class notes)

- The handwritten assignments are to be submitted individually. Compile all your scans in the right order into a single pdf file. Moodle submission portal will be opened soon.

- Students are free to refer to class notes and textbooks while working on the problems. Student discussions are allowed but copying and plagiarism will NOT be tolerated and attract strict penalty.

- At the beginning of the assignment, each student must declare the honor code:
  "I affirm that I have neither given nor received help or used any means which would make this assignment unfair."
  - YOUR Signature

- Assignments submitted without honor code and signature will have a 10% penalty.

- Late submission: 10% penalty per day of late submission (will be accepted up to at most 3 days after deadline).