

## EE311 - Matlab Assignment III

In this assignment, you will design a more detailed version of an active noise control system in simulink. Adaptive filters change the coefficients of the filter continuously while operating. You do not have to use the same model page for all of them. Submit your models and report to sucourse

- a) Design an ANC update subsystem and (30pts)
- b) Design an ANC filter subsystem and use them on a color of noise. Observe how the coefficients changed during the operation.(30pts)
- c) Create a channel subsystem and simulate a random channel in your design. (30pts)
- d) Design a secondary path estimator to estimate your channel. (10pts) (Try your best)