

Wireless Sensor Networks (CSD337) Lab 5

Instructions

For this lab, you will understand and analyze WSN protocols – with emphasis on physical layer and MAC layer – to be done on Matlab.

Grading

- This assignment carries 0 points, however, you are required to submit it.

Submission

- Put the Matlab functions and resulting graphs.
- Name the document as NGLA1_WSN2017_John_Doe.pdf in case your name is John Doe.
- Upload the document by due date and time.

Question

Download Matlab implementation of LEACH protocol from the following link:

<https://in.mathworks.com/matlabcentral/fileexchange/44073-low-energy-adaptive-clustering-hierarchy-protocol--leach->

- Understand how LEACH is implemented – energy model, randomized rotation of CH
- Write functions in Matlab to generate the following graphs:
 - ✓ No. of rounds vs Energy Consumed
 - ✓ No. of rounds vs Dead nodes
- Repeat part b) with 'p' = 0.4.
- Comment on the results obtained by changing the value of 'p'.