

AD-HOC AND SENSOR NETWORKS LAB

Department: Information Technology

Semester: 8th

Paper ID: ETEC - 458

LIST OF EXPERIMENTS:

Note: Implement Experiment No: 1 to 5 using NS2/NS3 Simulation Tool.

Implement Experiment No: 6 to 8 using MATLAB Tool.

1. Create a sample wireless topology using Simulation Tool.
2. Create a mobile Ad-hoc networks using Simulation Tool.
3. Implement an Ad-hoc On-demand Distance Vector protocol using Simulation Tool.
4. Implement a Transmission Control Protocol using Simulation Tool.
5. Implement an User Datagram Protocol using Simulation Tool.
6. Implement a Low Energy Adaptive Hierarchy protocol using Simulation Tool.
7. Implement a Power Efficient Gathering in Sensor Information System using Simulation Tool.
8. Implement a Sensor *Protocol* for Information via Negotiation (SPIN) using Simulation Tool.

ADDITIONAL EXPERIMENTS:

Note: Implement Experiment No: 3 using NS2/NS3 Simulation Tool.

Implement Experiment No: 1,2 and 4 MATLAB Tool.

1. Implement a Power Efficient and Delay Aware MAC protocol using Simulation Tool.
2. Implement a Predictive Wake-up MAC protocol using Simulation Tool.
3. Implement a Proactive and Reactive based MAC protocol using Simulation Tool.
4. Implement a Scheduling based protocol for WSNs using Simulation Tool.