

Wireless Communication Systems Laboratory

Lab#0: Introductory Lab

Objective

The objective is to introduce the lab and equipment to the students. TAs will explain the lab rules and how to use the devices. Also, a simple demonstration will be provided in order to show the capabilities of the equipment in the laboratory. The students will be familiar with the following items:

- 1- The safety requirements during the experiments:
 - a- Supervision of TA is required while using equipment.
 - b- Know the limitations of equipment and ensure their safety.
 - c- Personal safety awareness.
 - d- Emergency situations.

- 2- The lab reports:
 - a- How to prepare the lab reports.
 - b- The approval procedure of the lab reports.
 - c- Sample reports from previous semesters.
 - d- Grading.

- 3- How to make accurate measurements and introduction of parameters that effect correctness of the measurements:
 - a- Noise floor, neighboring channels, central frequency, bandwidth, frequency offset, expected power, etc.
 - b- Use of proper equipment: antennas, cables, connectors, etc.
 - c- The environment effect.

- 4- Selected projects from previous semesters.

- 5- Useful tips about the course.

- 6- DEMOS.