

# EE161 – RF Comm Lab radio experimental demos – 1/3

- The lab demos will be **in person** in the RF Comm Lab (room ENG238)
- Door access code will be sent as a group Canvas announcement  
**Please do not share this code with anyone other than group members**
- Please respect other groups. Do the experiment **within your time slot**
- When in the lab, **DO NOT operate/touch anything except your computers**
- There will be two lab demos:
  - **Noise measurements** (Spectrum and histogram)
  - **QPSK** modulation system **and BER** measurements

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- Use ONLY the computers assigned to your group
- Put bags and drinks BELOW the table so that instruments are not damaged
- **DO NOT EAT IN OR BRING FOOD TO THE LAB**
- Keep the door closed at all times
- Make sure that the door locks behind you when you leave
- Press ENTER or ctrl-alt-del to log in to the computer.  
(Computers 2 and 5 may need to be turned off (hold power button until it is off) and turned on again if no window pops)

Software radio  
(ADALM-PLUTO)  
Computer name



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**IMPORTANT:** The radios do not communicate with the computer until you connect them via the USB cables next to them. **Before you go, make sure that you disconnect them**

**YOU MUST QUIT MATLAB BEFORE YOU LOGOUT OR THE RADIO WILL BE BLOCKED**

In case of running **two simultaneous links** (two lab groups), use the following frequencies:

Link 1: **fc=899e6** (899 MHz)

Link 2: **fc=901e6** (901 MHz)

