

Wireless Communications System Laboratory

What is the objective?

The objective of this course is to teach wireless communication concepts through hands-on experiments.

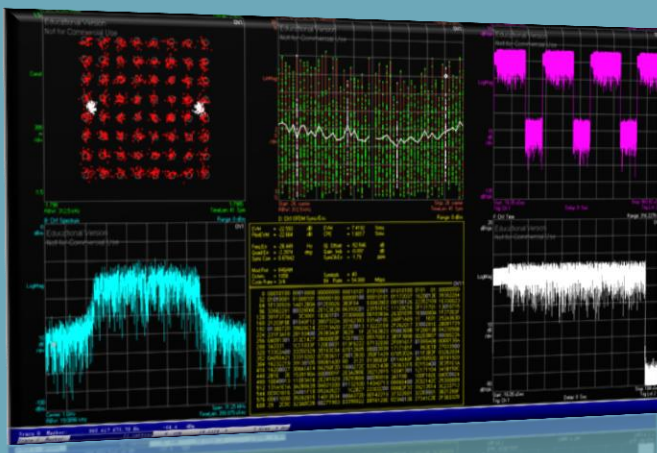
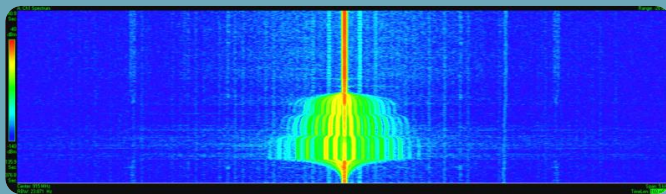
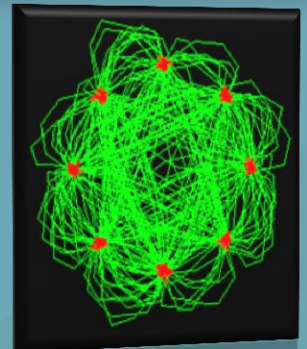
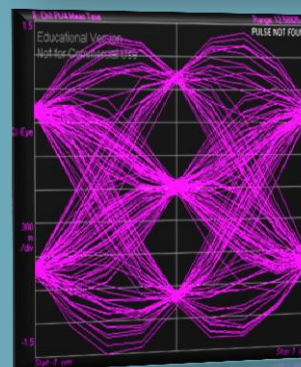
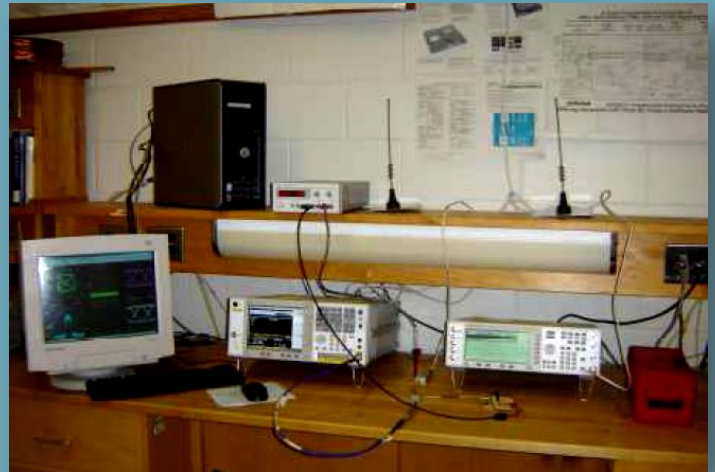
What will you learn?

Lab1) Digital baseband communication through MATLAB® simulations

Lab2) Understanding waveforms and their properties

Lab3) Introduction to wireless front end

Lab4) Modulation domain analysis



Lab5) Effects of filters in wireless communication systems

Lab6) Multidimensional signal analysis

Lab7) Synchronization in wireless systems

Lab8) Channel effects in wireless communication systems

Lab9) Distortions in RF front-end*,
Analysis of interference*,
Introduction to OFDM*

*: optional