Course Announcement !!

RF/Microwave Circuits I – EEL 4421/6426
New Format – Expanded Applications Coverage

FALL 2010

Wireless/microwave technology enables many types of radars, sensors and electronic communications. This includes ubiquitous mobile communications and emerging applications such as smart grid, distributed sensor networks, biomedical sensing and satellite communications technology. RF/Microwave Circuits I provides the basic knowledge for advanced study in this field.

RF/Microwave Circuits I is a senior level/graduate elective that provides the fundamentals on microwave circuit and system design and analysis. In this course you will study distributed networks, gain experience with industry-standard CAD tools, and have a chance to design/build/test microwave circuits.

Many enhancements are being added to this course for the Fall 2010 semester. We will look at modern applications of wireless technology, including wireless sensor networks, GPS, and RFID while learning the principles of such complex-engineered systems. In studying these systems we will also touch upon related topics such as digital communications, wireless channels and antenna design.

The course combines traditional lectures with several on-line modules that will be reviewed in open-format in-class discussions.