Course Outline:
This course covers the analysis and design of antennas which are often used in modern communication devices and radars. Students will be exposed to the antenna design methods and measurement techniques.

Course materials:
1. Introduction to antennas
   - Definitions and radiation patterns
2. Review of TL and cavity resonators
3. Introduction to microstrip antennas (MSA)
4. Green's function technique applied for MSA
5. Circularly polarized MSA
6. Broadband and dual-band MSA
7. Array antennas and feeding network
8. Inverted-F antennas
9. Meanderline dipole and monopole antennas
10. Tapered slot antennas
11. Printed Yagi and bowtie antennas
12. Far- and near-fields antenna measurement techniques

Project and homework:
Six antenna design projects will be assigned. The final grade will be based on the projects. No exam.

Tapered and non-tapered series-fed patch array antenna (from 2016)