Introductory Course on Microwave filters

**Purpose of the course**: To introduce the concepts behind microwave filters highlighting the potential and limitations of these devices in the practical applications

**Hours**: 8 (4 lessons of 2h)

**Program**


**Lesson 3**: Why to introduce transmission zeros in the filter response. Approximating characteristic including transmission zeros (Generalized Chebycheff). Topological solutions (cross-coupled and extracted-pole topologies). The normalized coupling matrix. Practical examples (coaxial & waveguide) and discussion.

**Lesson 4**: Introduction to microwave filters dimensioning (with the aid of circuit and EM simulators)