RF equipment

Component
École Nationale Supérieure d'Électrotechnique d'Électronique

In brief

- **Ametys Code:** N9EE10A
- **Open to exchange students:** Yes

Presentation

Objectives

At the end of this course, students will be able to:
- Implement design methods for complex telecommunications systems that must meet electrical performance criteria.
- Define a system architecture and analyze its performance.
- Develop equipment by applying RF integrated circuit design methods.

Description

Course by S. George, Thales Alenia Space:
General information about satellites:
Satellite missions
Telecommunications payload architecture:
Equipment
Technologies
Future developments: Flexible payloads
Impact on equipment and technologies
Application BE:
Development of satellite payload architecture using COTS (Components On The Shelf) components that must meet the following criteria: gain, noise figure, and linearity

Design of equipment (VGA: Voltage Gain Amplifier) using 12GHz MMIC technology.