

Project: Modelling of structures in EM



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

- > **Amety's Code:** N8EE07F
- > **Open to exchange students:** Yes

Presentation

Objectives

Implementation of theoretical modelling skills and software skills in a given application. Each group has a different topic relating to line characterisation in terms of propagation (particularly dispersion equations).

Description

During this project, students must put into practice the skills they have acquired in electromagnetic modelling. This project consists of five sessions. The first three sessions are generally devoted to the analytical solution of the problem posed. The following two sessions allow students to program the equations obtained in MATLAB and compare the results with those obtained using 3D electromagnetic simulation software: Ansoft-HFSS. A critical and comparative analysis of the results obtained is expected.

Pre-requisites

Electromagnetism course

Transmission line course

Physical analysis of guided structures course Use of Ansoft-HFSS and Matlab tools.