

Graphs and Scheduling



Component

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

In brief

- **Ametys Code:** N8EE16B
- **Open to exchange students:** Yes

Presentation

Objectives

- Understand the basic concepts and terminology of graphs
 - Identify and model issues from different fields or specifications in the form of identification, enumeration or optimisation problems in a graph.
 - Master methods for identifying and enumerating paths, trees, circuits and stable points in a graph.
 - Solve polynomial optimisation problems on graphs: finding the shortest path, minimum weight spanning tree, maximum matching, etc.
 - Apply graph algorithms to real-world problems from different fields, including project management
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Description

This course provides an introduction to graphs and related algorithms, with an emphasis on their application to concrete problems from different fields.

Pre-requisites

None