

Graphes



Component

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

In brief

- > **plugin.odf-inp:PLUGINS_ODF_COURSE_NBHOURS_TXT:** 5 cours-TD, 5 TP
- > **Code:** N7EN10B

Presentation

Objectives

The student must master the principal concepts and results of Graph Theory and is able to apply them to real life problems and situations. He can implement and test classical algorithms of graph theory, such as Euler's circuit, Disjkstra's shortest path, Welsh-Powell's coloring, etc.

Description

Chapter 1 : Definitions and basic concepts

Chapter 2 : Graph connexity

Chapter 3 : Euler and Hamilton graphs

Chapter 4 : Exploring graphs

Chapter 5 : Graph coloring and Planar graphs

Each chapter is studied in class and related exercises are proposed.

5 labs are dedicated to the project.

Pre-requisites

Programming skills in ocaml

Useful info

Place

➤ Toulouse