

DPT TELECOMMUNICATIONS SERVICES ET USAGES TELECOMMUNICATIONS, SERVICES & USAGES

INSA Campus LyonTech - Bâtiment Hedy Lamarr 6 avenue des Arts - 69621 VILLEURBANNE Phone 0472436060

Network

Advanced Network Simulation

IDENTIFICATION

CODE: TC-5-S1-EC-SAR ECTS: 2.0

HOURS

Lectures :0.0 hSeminars :32.0 hLaboratory :0.0 hProject :0.0 h

Teacher-student

contact : 32.0 h
Personal work : 0.0 h
Total : 32.0 h

ASSESSMENT METHOD

The evaluation will be based on two grades:

- an oral presentation on the simulation methodology used in the project [50%].
- a written report focusing on the simulation results (50%).

TEACHING AIDS

TEACHING LANGUAGE

English

CONTACT

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AIMS

Simulation represents one of the main tools to evaluate the performance of a network, to dimension it, or to configure it. However, network simulation tools are not easy to manipulate, which impacts their adoption in the industrial world. The objective of this course is to familiarise you with the network simulation field more in depth than a classical performance evaluation class.

CONTENT

The class will be organised in a project format. Students will be divided in project groups, and each group will be associated to an instructor and a simulation scenario. Here are some possible scenario examples:

- WiFi deployment in an office building;
- IoT network for public lighting;
- a fleet of autonomous vehicles;
- an operator core network;
- server deployment at the mobile network edge.

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