

Digital communications and media



Component
Institut
universitaire de
technologie (IUT
1)

- > **Teaching language(s):** French
- > **Open to exchange students:** Yes

Presentation

Description

Upgrade (Introduction to Telecommunication Systems, Voice-Data-Image Signals and Signal Transmission Methods)

To be able: To recognize the architecture of a telecommunications system, To understand the different analog and digital modulations, To understand the transmission protocols, To choose and implement a transmission medium, To characterize, measure the signals in time and in frequency, to use the measuring instruments associated with the transmission systems.

Programme :

- Introduction et histoire des télécommunications
- Notion de signal et de puissance
- La relation temps fréquence
- Transmission d'un signal
- Câbles
- Fibres optiques (Principes, atténuation, bande passante, soudure, connecteur ...)
- Réflectométrie optique pour analyser des liens optiques

- Modulations d'amplitude analogique
- Modulations numériques
- Multiplexage des signaux
- Notions pour les systèmes de transmission haut débit (SDH, OWDM, FTTx)

Mots-Clefs : Systèmes de télécommunications (telecommunication systems) - Modulations numériques et analogiques (Digital and analog modulations) - Câbles, fibres optiques

Useful info

Place

- › Grenoble
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Campus

- › Grenoble - University campus