Smart mobility: Ethics and Legal Issues, Transport Engineering and spatial development

ECTS
4 crédits

Composante
INSA Hauts-de-France, UPHF

Présentation

Description

Goal :

After the course the student :
• have acquired knowledge in the field of transport, which is necessary to develop IT solutions
• understands moral conflicts and their underlying issues in smart mobility, is able to develop courses of action and make decisions on moral conflicts in smart mobility
• is able to assess the consequences of the use of ICT in smart mobility
• understands policies concerning equity, inclusion and sustainability in transport and mobility
• understands the difference between law and ethics

List of subjects to be presented to the students :

Transport-related subjects :

- Definitions and basic characteristics of various modes of transport
- Transport & IT development trends
- GIS in transport
- Collection of transport data
- Basics of traffic engineering Ethics and law-related subjects:
- Characteristics of Computing and Computer Ethics
- Ethics of Algorithms • Ethics of Cyber-Physical Systems
- Thinking tools for decision-making
- Professionalism and Codes of Ethics
- Ethics and Law: relation between ethics and law; whistle blowing
- Legal aspects: legal framework in mobility; personal rights and obligations
- Transport policy and equity
- Extent of transport's influence on environment – ethical aspect