



OUVRAGES POUR LA MOBILITÉ

TRANSPORTATION WORKS AND STRUCTURES

Lecturers: **Eric VINCENS**

| Lecturers : 12 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 8 | Project : 0.0 | Language : FR

Objectives

Transportation facilities are characterised by a long linear of works in an environment often more aggressive than for buildings or by non-standard geometries requiring technological solutions which are specific to them.

Among them, we can cite works of art, railway infrastructures as well as tunnels. Here, the main principles of design and monitoring of these structures will be given to fully understand the issues specific to their mechanical behavior and their durability. The speakers are all engineers, specialists in the field.

Keywords : bridge, railway, tunnel

Programme

Bridges: CM 4h + 1BE 4h
Tunnels: CM 4h + 1BE 4h
Railways: CM 4h

Learning outcomes

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méthodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Bernard-Gely, Jean-Armand Calgaro, *CONCEPTION DES PONTS*, Presses de l'École nationale des ponts et chaussées, 1994
Michel Leboeuf *GRANDE VITESSE FERROVIAIRE.*, Cherche midi, 2014
Jean Sulem , Marc Panet *LE CALCUL DES TUNNELS PAR LA MÉTHODE CONVERGENCE-CONFINEMENT*, Presses de l'École nationale des ponts et chaussées, 2021

Assessment

Continuous evaluation, in particular through the Practical Sessions