

CONSTRUCTIONS

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Lecturers: Eric VINCENS, Francesco FROIIO | Lecturers : 14.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 16.0 | Project : 0.0 | Language : FR

Objectives

Through this course, three construction technologies most representative of current practices are approached, namely reinforced concrete, prestressed concrete and steel construction.

The aim of this course is to provide tools for making technological choices, and calculation techniques for dimensioning beams, floors, columns as well as load-bearing walls. The European regulatory framework which should guide the engineer in the design is also addressed. All the Practical Sessions associated with these courses are supervised by professional engineers.

Keywords : reinforced concrete, prestressed concrete, steel construction



Learning outcomes

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

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

Core texts

Assessment

Jean Perchat, TRAITÉ DE BÉTON ARMÉ - SELON L'EUROCODE 2, Le Moniteur, 2010 Henry Thonier CONCEPTION ET CALCUL DES STRUCTURES DE BÂTIMENT : L'EUROCODE 2 PRATIQUE, Presses de l'École nationale des ponts et chaussée, 2006 Jean-Pierre Muzeau, APKMANUEL DE CONSTRUCTION MÉTALLIQUE, Eyrolles Afnor éd., 2012

1 grade from the final exam*0.75 + 1 grade from practical sessions*0.25