EX210 : Optional units O71

Shared by UV(s) :

M7-C	Partial Derivative Equations - Optional unit O71	page 0

To choose from :

MF208	Free-surface flows	page 0
MS203	Structural analysis	page 0

ECTS credits :

3.00

Number of hours :

Combined lecture and tutorial classes : 36.00

Teacher(s) :

LAC Patrick

Title :

Optional units O71

MF208 : Free-surface flows

Shared by choice module(s) :

EX210 Optional units O71 page 0

ECTS credits :

3.00

Evaluation :

S1: CC x1; S2: ET(2h,E,sd,ca) x1

Number of hours :

Combined lecture and tutorial classes :	36.00
Individual work :	18.00

Teacher(s) :

COQUERELLE Mathieu

Title :

Free-surface flows

Abstract :

This lecture aims at describing the physics involved in free-surface flows, including modeling aspects. Surface tension and capillary effects are introduced. Static and dynamic contact angles are discussed, wetting processes and various laws are demonstrated.

MS203 : Structural analysis

Shared by choice module(s) :

EX210 Optional units O71 page 0

ECTS credits :

3.00

Evaluation :

S1: CC; S2: ET(2h,E,sd,sc)

Number of hours :

Combined lecture and tutorial classes :	36.00
Individual work :	18.00

Teacher(s) :

LAC Patrick

Title :

Structural analysis

Abstract :

Virtual work theorem (VWT) - Formulation of structural models using VWT - Discretization of VWT by Gallerkin method and finite element method - Implementation of 1D and 2D finite elements.

Plan :