(B) Course information in English

General course information:

Course title:	Modelling of civil engineering structures	**Course code:**	CE10_S03
Credits:	6	**Work load (hours):**	120
Course level:	Undergraduate ☒	Graduate ☐	
Course type:	Mandatory ☐	Selective ☒	
Course category:	Basic ☐	Orientation ☒	
Semester:	4th	**Hours per week:**	4

Course objectives (capabilities pursued and learning results):

The main objective is the comprehension of modeling methods for civil engineering structures. The course is taught through computer software and includes characteristic cases of civil engineering structures. Special attention is given to points where the unsuccessful modeling may lead to significant mistakes. The course contains the following:

Structural types

- Framed structures
- Plate structures
- Structures with both frame and planar elements (plates, walls, etc)
- Foundations.

Analysis types

- Static analysis
- Dynamic analysis
- Soil-structure interaction

Materials

- Concrete
- Structural steel
- Composite members
- Mixed structures (containing elements of different materials)

The course contains also the following:

- Methods for quick error identification
- Results interpretation
- Connection of structural analysis with design

Prerequisites:

Structural Analysis I
Structural Analysis I I
Structural Analysis I II

Instructor's data:

Name:	Euripidis Mistakidis
Level:	Professor
Office:	101
Tel. – email:	24210 74171 – emistaki@uth.gr
Other tutors:	

Additional hours for:			
Class project	**Examinations**	**Preparation for examinations**	**Educational visit**
20	3	20	-

Suggested literature:
1. Αβραμίδης. Ι., Αθανατοπούλου, Μ., Αναστασιάδης, Κ. Μορφίδης, Κ., Πρότυπα Αριθμητικά Παραδείγματα Ανάλυσης Κατασκευών, ΕΚΔΟΣΕΙΣ ΑΙΒΑΖΗΣ 2. Π.Κ. Κολιόπουλος, Γ.Δ. Μανώλης , Δυναμική των κατασκευών με εφαρμογές στην αντισεισμική μηχανική, Εκδόσεις Γκιούρδα.

Teaching method *(select and describe if necessary* - **weight***):*		
Teaching	☒	40 %
Seminars	☐	
Demonstrations	☐	
Laboratory	☒	40 %
Exercises	☒	30 %
Visits at facilities	☐	
Other *(describe):* …….	☐	
Total		100%

Evaluation method *(select)*- **weight:**				
	written	*%*	*Oral*	*%*
Homework	☐		☐	
Class project	☒	50%	☐	50%
Interim examination	☐		☐	
Final examinations	☒		☐	
Other *(describe):* ……	☐		☐	