MINISTRY OF EDUCATION AND SCIENTIFIC RESEARCH

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

FIŞA DISCIPLINEI

1. Date despre program

1.1	Institutia de invatamint superior	Technical University of Cluj-Napoca
1.2	Facultatea	Civil Engineering
1.3	Departamentul	Civil Engineering and Management
1.4	Domeniul de studii	Civil Engineering
1.5	Ciclul de studii	Licence
1.6	Programul de studii/Calificarea	Civil Engineering
1.7	Forma de invatamint	IF – învăţământ cu frecvenţă
1.8	Codul disciplinei	46.00

2. Date despre disciplina

2.1	Denumirea disciplinei					Technology of Constructions (I)					
2.2	Aria tematica (subject area)					Civil Engineering					
2.3	Responsabili de curs					Prof. Eng. PhD Andrei MOGA					
2.4	Titularul disciplinei					Prof. Eng. PhD Andrei MOGA					
2.5	Anul de studii	III	2.6	Semestrul	II	2.7	Evaluarea	Coloqvium	2.8	Regimul disciplinei	DOB

3. Timpul total estimat

An/ Sem	Denumirea disciplinei	Nr. sapt.	Curs	Aplicaţii			Curs	Aplicaţii			Stud. Ind.	TOTAL	Credit
			[ore/săpt.]				[ore/sem.]						
				S	L	P		S	L	P			
III/2	Technology of Construction (I)	14	1		1		14		14		24	52	2

3.1	Numar de ore pe saptamina	2	3.2	din care curs	1	3.3	aplicatii	1
3.4	Total ore din planul de inv.	52	3.5	din care curs	14	3.6	aplicatii	14
Studiul individual								Ore
Studiul dupa manual, suport de curs, bibliografie si notite								8
Documentara suplimentara in biblioteca, pe platformele electronice si pe teren								5
Pregatire seminarii/laboratore, teme, referate, portofolii, eseuri								3
Tutoriat								3
Examinari								3
Alte activitati								-

3.7	Total ore studiul individual	24
3.8	Total ore pe semestru	28
3.9	Numar de credite	2

4. Preconditii (acolo unde este cazul)

4.1	De curriculum	Nu este cazul
4.2	De competente	Nu este cazul

5. Conditii (acolo unde este cazul)

5.1	De desfasurare a cursului	Nu este cazul
5.2	De desfasurare a aplicatiilor	Nu este cazul

6 Competente specifice acumulate

Competente profesionale	Cunoştinţe teoretice, (Ce trebuie sa cunoască)	- to understand the importance of technology in constructions - to understand the importance of the methods and techniques in technology - to understand the importance of preparatory works in constructions
	Deprinderi dobândite: (Ce ştie să facă)	After studying the discipline, the students will be able: - to determine the work quantities for a certain activity - to determinee the plan of digging - to estimate the quantities for earthworks - to calculate the number of vehicols for digging
	Abilităţi dobândite: (Ce instrumente ştie să mânuiască)	After studying the discipline, the students will be able: - to determine the quantities for earthworks - to use modern methods for construction technology - to be familiarized with the work regulation for earthworks
Competenţe transversale		

7 Obiectivele disciplinei (reiesind din grila competentelor specific acumulate)

7.1	Obiectivul general al disciplinei	Developing the competencies regarding the technologies for earthworks in constructions.
7.2	Obiectivele specifice	Accomplishing theoretical knowledges concerning the technologies of construction works.

8. Continuturi

8.1. Curs (programa analitica)		Metode de predare	Observatii
1	Types and mechanized methods for earthworks	Interactive Projector	
2	Preparatory and auxiliary works		
3	Digging excavation with excavators		
4	Soil compaction and stabilization		
5	Grading sites with bulldozers and graders		
6	Concrete mix preparation		
7	Concrete mix preparation		
8.2. Aplicatii (seminar/lucrari/proiect)		Metode de predare	Observatii
1	Plan of digging – part 1	Application	
2	Plan of digging – part 2	Application	
3	Estimating quantities of earthwork – part 1	Application	
4	Estimating quantities of earthwork – part 2	Application	
5	Excavation and vehicle calculation – part 1	Application	
6	Excavation and vehicle calculation – part 2	Application	

7	Working instruction	Application	

Bibliografie

Moga, A., – *Course notes*
Chudley, R., Greeno, R., – *Construction Technology*, Pearson, 2005
Blankenbaker, E., – *Construction and Building Technology*, Tech Lab Workbook, 2012

9. Coroborarea continuturilor disciplinei cu asteptarile reprezentantilor comunitatii epistemice, asociatiilor, profesionale si angajatori din domeniul aferent programului

The aquired competences will help the employees who work in design or execution companies (site works or supplying).

10. Evaluare

Tip activitate	10.1	Criterii de evaluare	10.2	Metode de evaluare	10.3	Ponderea din nota finala
Course		Solving 2 theory subjects		Written exam – 1 h		75%
Application		Mark for project				25%
10.4 Standard minim de performanta						
Solving 2 theory subjects						

Data completării Titularul de Disciplină Responsabil de curs
Sept 2016 Prof. Dr. ing. Andrei MOGA Prof. Dr. ing. Andrei MOGA

Data avizării în departament Director departament
Sept 2016 Conf.dr.ing. Claudiu ACIU