UNIVERSITATEA TEHNICĂ DE CONSTRUCȚII BUCUREȘTI

FACULTATEA DE INGINERIE ÎN LIMBI STRĂINE

DOMENIUL: INGINERIE CIVILĂ ȘI INSTALAȚII

SPECIALIZAREA: AQUATIC ENVIRONMENT ENGINEERING AND SCIENCE

TIP PROGRAM: Master

COD : U02.07.ICV.IZ.M32

Study Plan

1st Semester

No	Name of the course	Code of the course	С	S	L	Ρ	Pr	IS	ТН	CR	Exam Form
	Compulsory Courses										
1	Hydrology and Geomorphology	1.DD.OB.01	2	2		1		5	10	8	E
2	Geology and Hydrogeology	1.DD.OB.02	2	2		1		5	10	8	E
3	Chemical / physical and biological processes for Water Resources	1.DD.OB.03	2		3			3	8	7	E
	Ethics and Academic Integrity		1					1	2	1	С
	Optional Courses										
4.a	Data acquisition in Water Resources Engineering	1.DS.OP.01									
4.b	Applied Mathematics and Statistics in Water Resources	1.DS.OP.02	2	2				6	10	5	С
	Total number of hours per week (13 weeks)		9	6	3	2		20	40	29	3E+1C
5	Practical applications – 1 week stage	1.DS.OB.04					30			1	С
	Total number of hours per semester		104	78	52	26	30	260	550	30	3E+2C
	Facultative Courses										
6	English for water resources	1.DC.FC. 01	2	2				4	8	5	С

2nd Semester

No	Name of the course	Code of the course	С	S	L	Ρ		IS	ΤН	CR	Exam Form
	Compulsory Courses										
1	GIS for Water Resources	2.DD.OB.05	1		2	2		5	9	6	E
2	Risk and Vulnerability in water management	2.DD.OB.06	2	1				3	6	4	С
3	Water Resources Management and Legislation	2.DSOB.07	2	1				3	6	4	С
	Optional Courses										
4.a	Advanced Hydrology - Fluvial Hydraulics	2.DS.OP.03	2		2	1		5	10	7	F
4.b	Applied Hydrogeology - Water abstraction	2.DS.OP.04			2			5	10	'	E
5.a	Coastal Engineering	2.DS.OP.05	- 1		2	1		5	9	6	E
5.b	Groundwater Modeling	2.DS.OP.06			2	I					
	Total number of hours per week (12 weeks)		8	2	6	4		20	40	27	3E+2C
6	Practical applications – 2 weeks stage	2.DS.OB.08					60			3	С
	Total number of hours per semester		96	24	72	48	60	260	540	30	3E+3C
	Facultative Courses										
7	Watershed Modelling	2.DC.FC. 02	2		2	1		5	10	8	E

3rd Semester

No	Name of the course	Code of the course	С	S	L	Р	Pr	IS	ΤН	CR	Exam Form
	Compulsory Courses										
1	Remote Sensing in water engineering	3.DD.OB.09	2		2			4	8	6	E
2	Aquatic Ecosystems / Aquatic Ecology	3.DS.OB.10	2	1				3	6	5	E
3	Urban Water	3.DS.OB.11	2	1				3	6	3	С
	Optional Courses										
4.a	Advanced Hydrology - Urban Hydrology	3.DS.OP.07	- 2		2	1		5	10	8	Е
4.b	Applied Hydrogeology - Urban Hydrogeology	3.DS.OP.08									L
5.a	Groundwater Contamination and Remediation	3.DS.OP.09	2		2	1		5	10	8	E
5.b	Surface water quality and remediation	3.DS.OP.10								δ	
	Total number of hours per week (14 weeks)		10	2	6	2		20	40	30	4E+1C
	Total number of hours per semester		140	28	84	28		280	560	30	4E+1C
	Facultative Courses										
6	Numerical Modeling in water engineering	3.DC.FC. 03	2	3				5	10	8	E

4th Semester

No	Name of the course	Code of the	С	s	L	Р	IS	Pr	ТН	CR	Exam
INU	Name of the course	course	C	3	L		15	FI	п	UK	Form
	Compulsory Courses										
1	Design and research activities: (1). Hydrological processes modeling; (2). Aquatic environment remediation (3). Integrated assessment for uban waters (4). Surface and groundwater monitoring and assessment.	4.DS.OB.12				4	16		20	15	С
2	Practical stage for disertation preparation	4.DS.OB.13					15	5	20	15	С
	Total number of hours per week (14 weeks)					4	31	5	40	30	2C
	Total number of hours per semester					56	434	70	560	30	2C
	Dissertation defense									10	

F.I.L.S. Dean, S.I. dr. ing. Daniela ȚĂPUȘI