

TECHNICAL UNIVERSITY OF CIVIL ENGINEERING BUCHAREST
FACULTY OF BUILDING SERVICES ENGINEERING
DOMAIN: CIVIL ENGINEERING AND BUILDING SERVICES
EDUCATION: EVENING CLASSES
EDUCATION CYCLE: MASTER
MASTER'S PROGRAM: PERFORMING TECHNOLOGIES FOR PROTECTION OF THE URBAN ENVIRONMENT

EDUCATIONAL PLAN (2018 – 2020)

SEMESTER 1 - YEAR I 2018 /2019

Nr. Crt	Name of the discipline	Cod	C	Applications			SI	TO	CR	Prerequisites	Form of examination
				S	L	Pr					
1	Numerical analysis. Programming languages and environments	1.DF.DI.01	2	2	-	-	4	8	6		C
2	Techniques of acquiring and processing data	1.DD.DI.02	2	-	1	-	5	8	6		E
3	Advanced Engineering Thermodynamics	1.DD.DO.03	2	-	1	-	5	8	6		E
4	Applied Electrical Engineering	1.DD.DO.04	2	-	1	-	5	8	6		E
5	Fluid Mechanics	1.DD.DO.05	2	-	1	-	5	8	6		E
TOTAL			10	2	4	-	24	40	30		4E+1C

SEMESTER 2

Nr Crt.	Name of the discipline	Cod	C	Applications			SI	TO	CR	Prerequisites	Form of examination
				S	L	Pr					
1	Waste treatment systems	2.DS.DI.01	1.5	-	1.5	-	2	5	6		E
2	Optional discipline A: A.1. Unconventional energy resources in thermal systems A.2. Wave phenomena and oscillations	2.DD.DO.02	1.5	-	1.5	-	3	6	5		E
3	Capturing and converting energy from wind and waves	2.DD.DI.03	1	1	-	-	2	4	3		C
4	Environmental impact of thermal systems	2.DS.DI.04	1.5	1.5	-	-	2	5	6		E
5	Enhanced combustion processes, primary emissions reduction	2.DS.DI.05	1.5	-	1.5	-	2	5	6		E

6	Optional discipline B: B.1. Wastewater management in urban areas B.2. Dynamic thermal behavior of buildings	2.DD.DO.06	1	1	-	-	2	4	3		C
7	Academic integrity and ethics	2.DC.DI.07	1	-	-	-	1	2	1		C
TOTAL			9	3,5	4,5	-	23	40	30		4E+3C

Crossing first year to second year Master studies required obtaining 30 credits.

SEMESTER 3

YEA

R II 2019/2020

Nr Crt.	Name of the discipline	Cod	C	Applications			SI	TO	CR	Prerequisites	Form of examination
				S	L	Pr					
1	Energy management in urban environment	3.DS.DI.01	1.5	1.5	-	-	4	8	6		E
2	Urban comfort	3.DS.DI.02	2	2	-	-	4	8	6		E
3	Impact and risk (management of environmental quality)	3.DD.DI.03	1	1	-	-	6	12	4		C
4	Management of water resources in an urban environment	3.DD.DI.04	1	1	-	-	2	6	4		C
5	Monitoring the quality of the urban environment	3.DS.DI.05	1.5	-	1.5	-	6	9	6		E
6.	Optional discipline C: C.1. Building and design of buildings with reduced environmental impact C.2. Noise and vibration proofing of buildings and building services	3.DS.DO.06	1	-	1	-	2	6	4		E
TOTAL			8	5.5	2.5	-	24	40	30		4E+2C

SEMESTER 4

Nr Crt	Name of the discipline	Cod	C	Applications			SI	TO	CR	Pre requisi tes	Form of examinati on
				S	L	Pr					
1	Research and design activities		-	-	-	7	13	20	15	-	C
2	Accomplishment and completion of the Master thesis		-	-	-	7	13	20	15	-	C
	TOTAL		-	-	-	14	26	40	30		2C

Notes to the disciplines: "Research activities - design" and "Finalization and elaboration of the dissertation work" are received from the coordinating didactic framework of the dissertation work, during the summer session.

The support of the Dissertation Work for the acquisition of the Master's Degree is subject to obtaining 120 credits.

Nr Crt	Name of the discipline	Cod	C	Applications			SI	TO	CR	Pre requisi tes	Form of examinati on
				S	L	Pr					
	Dissertation paper support								10	120 ECTS	E

**TOTAL CREDITS FOR OBTAINING THE MASTER'S DEGREE: 130
CREDITS**

RECTOR

DEAN,

Prof. univ. dr. ing. Radu Sorin VĂCĂREANU

Prof. univ. dr. ing. Sorin BURCHIU