

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: ENERGY, COMFORT AND SUSTAINABLE DEVELOPMENT

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	Advanced 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.	Signaling installations for transmitting information	2.DS.DI.01	2	-	1	-	4	7	6		E
2.	Optional discipline A: A.1. Radiant heating and cooling of residential and industrial buildings A.2. Electrical energy supply systems for high power receivers	2.DS.DO.02	1	-	1	-	3	5	3		C
3	A.3. Quality of electrical energy A.4. Magnetic Compatibility	2.DS.DI.03	2	-	1	-	4	7	6		E
4	Air-conditioning for industrial and special destinations buildings	2.DS.DI.04	1	-	2	-	4	7	5		E
5	Equipment for special fluids	2.DS.DI.05	1	-	1	-	3	5	3		C

6	Thermal equipment for combustion and heat transfer	2.DD.DI.06	2		1	-	4	7	6		E
7	Ethics and academic integrity	2.DC.DI.07	1	-	-	-	1	2	1		C
TOTAL			10		7	-	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	Special installations for low temperatures	3.DS.DI.01	2	-	1	-	4	7	6		E
2	High performance systems for thermal energy production	3.DS.DI.02	1	-	1	-	3	5	4		C
3	Domotic, imotic and building management systems	3.DS.DI.03	1	-	1	-	4	6	5		E
4	Management of systems for fluid transport	3.DD.DI.04	1	-	1	-	3	5	3		C
5	Fire protection systems	3.DS.DI.05	1	-	2	-	4	7	5		E
6.	Optional discipline B: B.1. Industrial heat recovery systems; B.2. Momentum, heat, and mass transfer processes and thermal applications.	3.DS.DO.06	1	-	1	-	3	5	3		C
7	Urban lighting	3.DS.DI.07	1	-	1	-	3	5	4		E
TOTAL			8	-	8	-	24	40	30		4E+3C

SEMESTER 4-

Nr Crt .	Name of the discipline	Cod	C	Applications			SI	TO	CR	Prerequisites	Form of examination
				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	Prerequisites	Form of examination
				S	L	Pr					
	Dissertation paper presentation								10	120 ECTS	E

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

RECTOR

Prof. univ. dr. ing. Radu Sorin VĂCĂREANU

DEAN,

Prof. univ. dr. ing. Sorin BURCHIU