

UNIVERSITATEA TEHNICA CLUJ-NAPOCA

FACULTATE FACULTATEA DE INGINERIE A INSTALATIILOR

DOMENIU INGINERIE CIVILA SI INSTALATII

SPECIALIZARE INSTALATII PENTRU ORASE REGENERATIVE (IN LIMBA ENGLEZA)

Nivel de studii MASTER (PROFESIONAL)

PLAN DE INVATAMANT PENTRU PROMOTIA CARE INCEPE CU ANUL UNIVERSITAR 2024-2025

Ardeștin ...13/02/2024... la  
 Sedința nr. 161 din  
 data 23.05.2024

Pag. 1

CODUL SI DENUMIREA DISCIPLINEI	Anul : I										Forma de verificare			Nr.ore/disciplina				Credite/sem		Disciplina	
	SEM 1 14 sapt					SEM 2 14 sapt					E	C	V	Total	C	Apl	St. ind	1	2	cat	tip
	C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce											
1.00 Instalatii avansate pentru constructii - Incalzire,Ventilare,AerConditionat si Distributia Apei	2	0	0	2	0						Nota			125	28	28	69	5.0		DA	DI
2.00 Iluminat centrat pe om	1	0	0	1	0						Nota			75	14	14	47	3.0		DA	DI
3.00 Proiectare si fabricatie digitala	1	0	1	0	0						Nota			75	14	14	47	3.0		DA	DI
4.00 Arhitectura avansata	1	0	1	0	0						Nota			75	14	14	47	3.0		DC	DI
5.00 Cladiri nZeB	1	0	0	1	0						Nota			75	14	14	47	3.0		DA	DI
6.00 Economie circulara	1	0	1	0	0						Nota			75	14	14	47	3.0		DS	DI
7.00 Practica profesionala 1	0	0	0	0	14						Nota			250	0	196	54	10.0		DS	DI
8.00 Evaluarea cladirilor si oraselor						1	0	0	2	0	Nota			100	14	28	58		4.0	DS	DI
9.00 Calitatea mediului interior si starea de bine						2	0	1	0	0	Nota			100	28	14	58		4.0	DS	DI
10.00 Solutii de modernizare a instalatiilor						1	0	0	2	0	Nota			100	14	28	58		4.0	DA	DI
11.00 Analiza energetica a unei cladiri / oras						1	0	1	0	0	Nota			75	14	14	47		3.0	DS	DI
12.00 Analiza ciclului de viata						2	0	0	1	0	Nota			100	28	14	58		4.0	DS	DI
13.00 Etica si integritate academica						1	0	0	0	0	Nota			50	14	0	36		2.0	DC	DI
14.00 Practica profesionala 2						0	0	0	0	13	Nota			225	0	182	43		9.0	DS	DI
TOTAL AN	7	0	3	4	14	8	0	2	5	13	sem1 4 2 1 sem2 4 2 1		1500	210	574	716	30.0	30.0			

201.00 Psihopedagogia adolescentilor, tinerilor si adultilor	2	1	0	0	0						Nota			125	28	14	83	5.0		DC	DFac
301.00 Voluntariat 1	0	1	0	0	0						A/R			50	0	14	36	2.0		DC	DFac
202.00 Proiectarea si managementul programelor educationale						2	1	0	0	0	Nota			125	28	14	83		5.0	DC	DFac
203.10 Comunicare educationala						1	2	0	0	0	Nota			125	14	28	83		5.0	DC	DFac
203.20 Metodologia cercetarii educationale						1	2	0	0	0	Nota			125	14	28	83		5.0	DC	DFac
203.30 Orientari moderne in teoria si practica evaluarii						1	2	0	0	0	Nota			125	14	28	83		5.0	DC	DFac
302.00 Voluntariat 2						0	1	0	0	0	A/R			50	0	14	36		2.0	DC	DFac

Rector,  
Prof.Dr.Ing.Vasile Toma

Decan,  
Conf. pr. ing. Florin Vasile Domnita

Director departament,  
Conf. dr. ing. Carmen Marza

**EXEMPLAR UNIC**

Originalul se află la PRORECTORATUL DIDACTIC

Data: 09.04.2024 - VAR.0

Semnătura: \_\_\_\_\_

UNIVERSITATEA TEHNICA CLUJ-NAPOCA

FACULTATE FACULTATEA DE INGINERIE A INSTALATIILOR

Listat la : 13/02/2024

DOMENIU INGINERIE CIVILA SI INSTALATII

SPECIALIZARE INSTALATII PENTRU ORASE REGENERATIVE (IN LIMBA ENGLEZA)

Nivel de studii MASTER (PROFESIONAL)

PLAN DE INVATAMANT PENTRU PROMOTIA CARE INCEPE CU ANUL UNIVERSITAR 2024-2025

Pag. 2

TOTAL AN	2	2	0	0	0	3	4	0	0	0	sem1	1	0	1	475	70	84	321	7.0	12.0	
			4.00					7.00			sem2	2	0	1							

Rector,  
Prof.Dr.Ing. Vasile Toga

Decan,  
Conf. dr. ing. Florin Vasile Domnita

Director departament,  
Conf. dr. Ing. Carmen Marza

**EXEMPLAR UNIC**

Originalul se află la PRORECTORATUL DIDACTIC

Data: 09.04.2024- VAR.0

Semnătura: \_\_\_\_\_



CODUL SI DENUMIREA DISCIPLINEI	Anul : II										Forma de verificare	Nr.ore/disciplina				Credite/sem		Disciplina				
	SEM 1 14 sapt					SEM 2 14 sapt						E	C	V	Total	C	Apl	St. ind	1	2	cat	tip
	C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce												
15.00 Managementul retelelor urbane	2	0	2	0	0						Nota	125	28	28	69	5.0		DA	DI			
16.00 Instrumente si programe de management energetic pentru orase regenerative	1	0	0	1	0						Nota	75	14	14	47	3.0		DS	DI			
17.00 Abilitati de comunicare	1	0	1	0	0						Nota	75	14	14	47	3.0		DC	DI			
18.00 Surse de energie regenerabila	1	0	1	0	0						Nota	75	14	14	47	3.0		DA	DI			
19.10 Infrastructura electrica urbana	1	0	1	0	0						Nota	75	14	14	47	3.0		DA	DO			
19.20 Sisteme de control pentru cladiri si orase inteligente	1	0	1	0	0						Nota	75	14	14	47	3.0		DA	DO			
20.10 Managementul proiectelor	1	0	1	0	0						Nota	75	14	14	47	3.0		DS	DO			
20.20 Politici locale, nationale si europene	1	0	1	0	0						Nota	75	14	14	47	3.0		DS	DO			
21.00 Practica profesionala 3	0	0	0	0	14						Nota	250	0	196	54	10.0		DS	DI			
22.00 Practica profesionala 4						0	0	0	0	14	A/R	250	0	196	54		10.0	DS	DI			
23.00 Elaborare lucrare de disertatie						0	0	0	7	0	A/R	250	0	98	152		10.0	DS	DI			
24.00 Practica pentru elaborarea disertatiei						0	0	0	0	7	A/R	250	0	98	152		10.0	DS	DI			
25.00 Sustinere lucrare de disertatie						0	0	0	0	0	Nota	0	0	0	0		10.0	DS	DI			
<b>TOTAL AN</b>	<b>7</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>14</b>	sem1 4 2 1 sem2 0 0 3	<b>1500</b>	<b>98</b>	<b>686</b>	<b>716</b>	<b>30.0</b>	<b>30.0</b>					
																				+ 10		

204.00 Didactica domeniului si dezvoltari in didactica specializarii (invatamant liceal, postliceal, dupa caz)	2	1	0	0	0						Nota	125	28	14	83	5.0		DC	DFac
205.10 Managementul organizatiei scolare	1	2	0	0	0						Nota	125	14	28	83	5.0		DC	DFac
205.20 Educatie metacognitiva	1	2	0	0	0						Nota	125	14	28	83	5.0		DC	DFac
205.30 Educatie interculturala	1	2	0	0	0						Nota	125	14	28	83	5.0		DC	DFac
303.00 Voluntariat 3	0	1	0	0	0						A/R	50	0	14	36	2.0		DC	DFac
206.00 Practica pedagogica de specialitate in invatamantul preuniversitar (invatamant liceal, postliceal, dupa caz)						0	0	0	0	3	Nota	125	0	42	83		5.0	DC	DFac
207.00 Examen de absolvire: nivelul II						0	0	0	0	0	Nota	125	0	0	125		5.0	DC	DFac
304.00 Voluntariat 4						0	1	0	0	0	A/R	50	0	14	36		2.0	DC	DFac

Rector,  
Prof.Dr.Ing.Vasile TopaDecan,  
Conf. dr. Ing. Florin Vasile DomnitaDirector departament,  
Conf. dr. Ing. Carmen Marza

Originalul se află la PROCTORATUL DIDACTIC

Data: 19.05.2023 - V4 R.0

Semnătura: \_\_\_\_\_

TOTAL AN	3	4	0	0	0	0	1	0	0	3	sem1	2	0	1	600	42	112	446	12.0	7.0	
			7.00					1.00			sem2	0	1	1						+ 5	

Rector,  
Prof.Dr.Ing.Vasile Topa

Decan,  
Conf. dr. ing. Florin Vasile Domnita

Director departament,  
Conf. dr. Ing. Carmen Marza

**EXEMPLAR UNIC**  
Originalul se află la PRORECTORATUL DIDACTIC  
Data: 19.05.2023-VAR.0  
Semnătura: \_\_\_\_\_



Domain  
Program Name **BUILDING SERVICES FOR REGENERATIVE CITIES (IN ENGLISH LANGUAGE)**  
Study Level **PROFSSIONAL MASTERS**

Listat la : 13/02/2024

Anexa nr. 11 la  
Ședința nr. 161 din  
data 23.05.2024 Pag. 1

**CURRICULA** Valid for the Academic Year **2024-2025**

COURSE CODE AND TITLE	Year I					Methods of Assessment			Nr.of Hours/Discipline				ECTS/Sem		Discipline						
	SEM 1 14 weeks					SEM 2 14 weeks					E	C	V	Total	C	Apl	Indiv. St.	1	2	cat	type
	C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce											
1.00 Advanced Building Services - HVAC and Water Distribution	2	0	0	2	0						Gr	125	28	28	69	5.0		DA	DI		
2.00 Human Centric Lighting	1	0	0	1	0						Gr	75	14	14	47	3.0		DA	DI		
3.00 Digital Design and Fabrication	1	0	1	0	0						Gr	75	14	14	47	3.0		DA	DI		
4.00 Advanced Architecture	1	0	1	0	0						Gr	75	14	14	47	3.0		DC	DI		
5.00 nZeB buildings	1	0	0	1	0						Gr	75	14	14	47	3.0		DA	DI		
6.00 Circular Economy	1	0	1	0	0						Gr	75	14	14	47	3.0		DS	DI		
7.00 Professional Practice 1	0	0	0	0	14						Gr	250	0	196	54	10.0		DS	DI		
8.00 Building and City Assessment						1	0	0	2	0	Gr	100	14	28	58		4.0	DS	DI		
9.00 Indoor Environment Quality and Well-being						2	0	1	0	0	Gr	100	28	14	58		4.0	DS	DI		
10.00 Building Services Retrofit Solutions						1	0	0	2	0	Gr	100	14	28	58		4.0	DA	DI		
11.00 Energy Analysis of a Building / City						1	0	1	0	0	Gr	75	14	14	47		3.0	DS	DI		
12.00 Lifecycle Analysis						2	0	0	1	0	Gr	100	28	14	58		4.0	DS	DI		
13.00 Ethics and Academic Integrity						1	0	0	0	0	Gr	50	14	0	36		2.0	DC	DI		
14.00 Professional practice 2						0	0	0	0	13	Gr	225	0	182	43		9.0	DS	DI		
<b>TOTAL AN</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>14</b>	<b>8</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>13</b>	sem1 4 2 1 sem2 4 2 1	<b>1500</b>	<b>210</b>	<b>574</b>	<b>716</b>	<b>30.0</b>	<b>30.0</b>				

201.00 Psychopedagogy of Adolescents, Youngs and Adults	2	1	0	0	0						Gr	125	28	14	83	5.0		DC	DFac
301.00 Volunteering 1	0	1	0	0	0						A/R	50	0	14	36	2.0		DC	DFac
202.00 Design and Management of Educational Programs						2	1	0	0	0	Gr	125	28	14	83		5.0	DC	DFac
203.10 Educational Communication						1	2	0	0	0	Gr	125	14	28	83		5.0	DC	DFac
203.20 Educational Research Methodology						1	2	0	0	0	Gr	125	14	28	83		5.0	DC	DFac
203.30 Modern Orientations in Evaluation Theory and Practice						1	2	0	0	0	Gr	125	14	28	83		5.0	DC	DFac
302.00 Volunteering 2						0	1	0	0	0	A/R	50	0	14	36		2.0	DC	DFac

Rector,  
Prof.Dr.Ina.Vasile Topa

Dean,  
Conf. dr. ing. Florin Vasile Domnita

Department Director,  
Conf. dr. ing. Carmen Marza

**EXEMPLAR UNIC**

Originalul se află la PRORECTORATUL DIDACTIC

Data: 09.04.2024-VAR.0

Semnătura: \_\_\_\_\_

Domain

Program Name BUILDING SERVICES FOR REGENERATIVE CITIES (IN ENGLISH LANGUAGE)

Study Level PROFSSIONAL MASTERS

**CURRICULA**

Valid for the Academic Year

2024-2025

Pag. 2

TOTAL AN	2	2	0	0	0	3	4	0	0	0	sem1	1	0	1	475	70	84	321	7.0	12.0	
	4.00					7.00					sem2	2	0	1							

Rector,  
 Prof.Dr.Ing.Vasile Topa

Dean,  
 Conf. dr. ing. Florin Vasile Domnita

Department Director,  
 Conf. dr. ing. Carmen Marza

**EXEMPLAR UNIC**

Originalul se află la PRORECTORATUL DIDACTIC

Data: 09.04.2024 - VAR.0

Semnătura: \_\_\_\_\_



Domain

Program Name BUILDING SERVICES FOR REGENERATIVE CITIES (IN ENGLISH LANGUAGE)

Study Level PROFESSIONAL MASTERS

CURRICULA

Valid for the Academic Year

2023-2024

Pag. 3

COURSE CODE AND TITLE	Year II										Methods of Assessment			Nr.of Hours/Discipline				ECTS/Sem		Discipline		
	SEM 1 14 weeks					SEM 2 14 weeks					E	C	V	Total	C	Apl	Indiv. St.	1	2	cat	type	
	C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce												
15.00 Urban Network Management	2	0	2	0	0						Gr			125	28	28	69	5.0		DA	DI	
16.00 Energy Management tools and Programs for Regenerative Cities	1	0	0	1	0						Gr			75	14	14	47	3.0		DS	DI	
17.00 Communication Skills	1	0	1	0	0						Gr			75	14	14	47	3.0		DC	DI	
18.00 Renewable Energy Sources	1	0	1	0	0						Gr			75	14	14	47	3.0		DA	DI	
19.10 Urban Electric Infrastructure	1	0	1	0	0						Gr			75	14	14	47	3.0		DA	DO	
19.20 Control Systems for Smart Homes and Cities	1	0	1	0	0						Gr			75	14	14	47	3.0		DA	DO	
20.10 Project Management	1	0	1	0	0						Gr			75	14	14	47	3.0		DS	DO	
20.20 Local, National and European Policies	1	0	1	0	0						Gr			75	14	14	47	3.0		DS	DO	
21.00 Professional practice 3	0	0	0	0	14						Gr			250	0	196	54	10.0		DS	DI	
22.00 Professional Practice 4						0	0	0	0	14	A/R			250	0	196	54		10.0	DS	DI	
23.00 Dissertation Project Work						0	0	0	7	0	A/R			250	0	98	152		10.0	DS	DI	
24.00 Practice for Dissertation						0	0	0	0	7	A/R			250	0	98	152		10.0	DS	DI	
25.00 Presentation of Dissertation						0	0	0	0	0	Gr			0	0	0	0		10.0	DS	DI	
<b>TOTAL AN</b>	<b>7</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>14</b>	sem1	4	2	1	<b>1500</b>	<b>98</b>	<b>686</b>	<b>716</b>	<b>30.0</b>	<b>30.0</b>		
											sem2	0	0	3						+ 10		

204.00 Didactics of the Field and Development in Didactics Specialties (High School and Post High School Education)	2	1	0	0	0						Gr			125	28	14	83	5.0		DC	DFac
205.10 School Organization Management	1	2	0	0	0						Gr			125	14	28	83	5.0		DC	DFac
205.20 Metacognitive Education	1	2	0	0	0						Gr			125	14	28	83	5.0		DC	DFac
205.30 Intercultural Education	1	2	0	0	0						Gr			125	14	28	83	5.0		DC	DFac
303.00 Volunteering 3	0	1	0	0	0						A/R			50	0	14	36	2.0		DC	DFac
206.00 Teaching Practice (in Secondary School and Tertiary Education)						0	0	0	0	3	Gr			125	0	42	83		5.0	DC	DFac
207.00 Graduation exam - Level II						0	0	0	0	0	Gr			125	0	0	125		5.0	DC	DFac

Rector,  
Prof.Dr.Ing.Vasile Topa

Dean,  
Conf. dr. ing. Florin Vasile Domnita

Department Director,  
Conf. dr. ing. Carmen Marza

Originalul se află la PRORECTORATUL DIDACTIC

Data: 19.05.2023 -VARO

Semnătura: \_\_\_\_\_

Domain

Program Name BUILDING SERVICES FOR REGENERATIVE CITIES (IN ENGLISH LANGUAGE)

Study Level PROFSSIONAL MASTERS

**CURRICULA**

Valid for the Academic Year

2023-2024

Pag. 4

304.00 Volunteering 4		0	1	0	0	0		A/R	50	0	14	36	2.0	DC	DFac							
TOTAL AN	3	4	0	0	0	0	1	0	0	3	sem1	2	0	1	600	42	112	446	12.0	7.0		
											sem2	0	1	1							+ 5	

Rector,  
 Prof.Dr.Ing.Vasile Topa

Dean,  
 Conf. dr. Ing. Florin Vasile Domnita

Department Director,  
 Conf. dr. ing. Carmen Marza

**EXEMPLAR UNIC**

Originalul se află la PROCTORATUL DIDACTIC

Data: 19.05.2023 - YARC

Semnătura: \_\_\_\_\_