

Domeniul de licență: **Electronică, Telecomunicații și Tehnologii Informaționale**
 Programul de studii univ. de master: **Communications Networks Engineering/Ingineria rețelelor de comunicații**

Forma de învățământ: **cu frecvență**
 Durata studiilor: **2 ani**

Domeniul fundamental (DFI): **Științe inginerești**
 Ramura de știință (RSI): **Inginerie Electrică, Electronică și Telecomunicații**

Domeniul de studii universitare de master (DSU_M): **Inginerie Electronică, Telecomunicații și Tehnologii Informaționale**

Cod DFI	Cod RSI	Cod DSU_M
20	20	10

ciclul	c1c2c3	a1a2
M	232	20

PLAN DE ÎNVĂȚĂMÂNT
 An universitar 2020 - 2021
 ANUL I

SEMESTRUL 1											SEMESTRUL 2											
1	Elective 1 set 1M1										Elective 2 set 2M1											
	M232.20.01.A1-ij	5	D	28	0	28	0	0	0	DA	69	M232.20.02.A1-ij	5	E	28	0	14	0		DA	42	
2	Antennas and Wave Propagation										Traffic Engineering in Telecommunication Networks											
	M232.20.01.A2	5	D	28	0	28	0	0	0	DA	69	M232.20.02.V2	6	E	28	0	0	28		DCAV	56	
3	Advanced Topics in Signal Processing										Pattern Recognition											
	M232.20.01.V3	5	E	28	0	14	7	0		DCAV	76	M232.20.02.A3	5	D	28	0	14	14		DA	42	
4	Selected topics in Communication Engineering										Advanced Video Compression Techniques											
	M232.20.01.V4	5	E	28	0	14	0	0		DCAV	83	M232.20.02.V4	6	E	28	0	28	0		DCAV	56	
5	Ethics and Academic Integrity										Professional Practical Training 2											
	M232.20.01.C5	2	D	14	7	0	0	0		DC	29	M232.20.02.C5	8	D						154	DC	
6	Professional Practical Training 1																					
	M232.20.01.C6	8	D								140	DC	60									
7																						
total / sem.	VAi:	224			VPI:	386					VAi:	210			VPI:	196						
	VA (VAi+VAp):	364			VCA (VA+VPI):	750					VA (VAi+VAp):	364			VCA (VA+VPI):	560						
	credite:	30			evaluări:						credite:	30			evaluări:							
total / săpt.	VAi:	16			VPI:	28					VAi:	15			VPI:	14						
	VA (VAi+VAp):	26			VCA (VA+VPI):	54					VA (VAi+VAp):	26			VCA (VA+VPI):	40						
	din care:	9	1	6	1	10	(c, s, l, p, VAp)					din care:	8	0	4	3	11	(c, s, l, p, VAp)				

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ANUL II

SEMESTRUL 3											SEMESTRUL 4										
1	Elective 3 set 3M1										Practical Training/Research (7 weeks x 26 h/week)										
	M232.20.03.A1-ij	5	E	28	0	14	0		DA	42	M232.20.04.S1	10	D	0	0	0	0	182	DS	98	
2	Mobile Communication Networks										Master Thesis Elaboration (7 weeks x 26 h/week)										
	M232.20.03.A2	6	E	28	0	28	0		DA	94	M232.20.04.S2	10	D	0	0	0	0	182	DS	98	
3	Optical Communication Systems and Networks										Master Graduation Exam										
	M232.20.03.S3	6	E	28	0	28	0		DS	94	M232.20.04.S3	10	D	0	0	0	0		DS		
4	IoT Systems																				
	M232.20.03.V4	5	D	28	0	14	14		DCAV	42											
5	Professional Practical Training 3																				
	M232.20.03.C5	8	D						154	DC											
6																					
7																					
total / sem.	VAi:	210			VPI:	272					VAi:	0			VPI:	196					
	VA (VAi+VAp):	364			VCA (VA+VPI):	636					VA (VAi+VAp):	364			VCA (VA+VPI):	560					
	credite:	30			evaluări:	3E+2D					credite:	30			evaluări:						
total / săpt.	VAi:	15			VPI:	19					VAi:	0			VPI:	14					
	VA (VAi+VAp):	26			VCA (VA+VPI):	45					VA (VAi+VAp):	26			VCA (VA+VPI):	40					
	din care:	8	0	6	1	11	(c, s, l, p, VAp)					din care:	0	0	0	0	26	(c, s, l, p, VAp)			

Competențe:

Selection, synthesis and comparative evaluation of theoretical concepts, models, analysis techniques and methods in the field of telecommunications
Collecting and interpreting relevant data in the field of telecommunication networks to solve problems and their creative application in design
Innovative problem solving by integration of new and complex information in-depth and related areas in new contexts;
Hardware and software applications development for telecommunications networks using new technologies.

Competențe transversale

Organizational skills and teamwork management of multidisciplinary research with taking responsibility for different hierarchical levels;
Critical, innovative and research skills, in conjunction with identifying their own learning and training needs;
Communication skills of ideas, problems and solutions of projects, initiatives in interdisciplinary cooperation.

RECTOR,
Conf.univ.dr.ing. Florin DRĂGAN

DECAN,
Prof.univ.dr.ing. Florin ALEXA

DISCIPLINE OPTIONALE
An universitar 2020 - 2021
ANUL I

SEMESTRUL 1											SEMESTRUL 2										
01	Radio Network Design Elective 1M1.1 from set 1M1										Network Planning										
	M232.20.01.A1-01	5	D	28	0	28	0	28	DA	36	M232.20.02.A1-01	5	E	28	0	14	0	DA	42		
02	Statistic and Stochastic Modelling Elective 1M1.2 from set 1M1										Computer Networks Administration										
	M232.20.01.A1-02	5	D	28	0	28	0	28	DA	36	M232.20.02.A1-02	5	E	28	0	14	0	DA	42		
03	Modern Programming Techniques Elective 1M1.3 from set 1M1																				
	M232.20.01.A1-03	5	D	28	0	28	0	28	DA	36											
04																					
05																					
06																					

DISCIPLINE OPTIONALE
An universitar 2020 - 2021
ANUL II

SEMESTRUL 3											SEMESTRUL 4										
01	Resource Management in Wireless Networks																				
	M232.20.03.A1-01	5	E	28	0	14	0	DA	42												
02	Wideband Communication Networks																				
	M232.20.03.A1-02	5	E	28	0	14	0	DA	42												
03																					
04																					
05																					
06																					

Legenda

Nume disciplina										
Cod	nc	FE	c	s	l	p	VAp	CF	VPI	

Cod = cod disciplina
nc = nr.credite transferabile
FE = forma de evaluare
FE ∈ {E, D, C}
E=examen
D=evaluare distribuita
C=colocviu
c=nr.ore curs/semestru
s=nr.ore seminar
l=nr.ore laborator
p=nr.ore proiect
VAp - volum de ore necesar activitatilor partial asistate

(*) - discipline optionale activate in anul universitar 2020/ 2021

Exemplu

Tehnologii avansate de măsurare										
M170.17.01.V1	8	E	28	0	28	0	49	DCAV	50	

CF=categoria formativa careia ii apartine disciplina
CF={DA, DCAV, DS, DC}
DA - disciplina de aprofundare
DCAV - disciplina de cunoastere avansata
DS - disciplina de sinteza
DC - disciplina complementara
VPI = volum de ore necesar pregatirii individuale pentru un semestru de 14 sapt. plus 4 sapt. de sesiune

VAI - volum de ore necesar activitatilor integral asistate=c+s+l+p
VA - volum de ore necesar activitatilor integral asistate si al celor asistate partial=VAi+Vap
VCA - volum de ore cumulat al tuturor activitatilor = VA+VPI

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