

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 ingineresti**  
 Ramura de știință (RSI): **Inginerie Electrică, Electronică și Telecomunicații**  
 Domeniul de studii univ. de master (DSU\_M): **Inginerie Electronică, Telecomunicații și Tehnologii Informaționale**

Cod DFI	Cod RSI	Cod DSU_M	ciclu	c1c2c3	a1a2
20	20	10	M	232	19

**PLAN DE ÎNVĂȚĂMÂNT**  
 An universitar 2019 - 2020  
 ANUL I

	SEMESTRUL 1										SEMESTRUL 2									
1	Elective 1 set 1M1										Elective 2 set 2M1									
	M232.19.01.A1-ij	5	D	28	0	28	0	0	DA	42	M232.19.02.A1-ij	5	E	28	0	14	0	0	DA	42
2	Antennas and Wave Propagation										Traffic Engineering in Telecommunication Networks									
	M232.19.01.A2	5	D	28	0	28	0	0	DA	42	M232.19.02.V2	6	E	28	0	0	28	0	DCAV	56
3	Advanced Topics in Signal Processing										Pattern Recognition									
	M232.19.01.V3	5	E	28	0	14	7	0	DCAV	42	M232.19.02.A3	5	D	28	0	14	14	0	DA	42
4	Selected topics in Communication Engineering										Advanced Video Compression Techniques									
	M232.19.01.V4	5	E	28	0	14	0	0	DCAV	42	M232.19.02.V4	6	E	28	0	28	0	0	DCAV	56
5	Ethics and Academic Integrity										Professional Practical Training 2									
	M232.19.01.C5	2	D	14	7	0	0	0	DC	21	M232.19.02.C5	8	D					154	DC	
6	Professional Practical Training 1																			
	M232.19.01.C6	8	D						147	DC										
7																				
total / sem.	VAi:	224			VPI:	189			VAi:	210			VPI:	196						
	VA (VAi+VAp):	371			VCA (VA+VPI):	560			VA (VAi+VAp):	364			VCA (VA+VPI):	560						
	credite:	30			evaluări:				credite:	30			evaluări:							
total / săpt.	VAi:	16			VPI:	14			VAi:	15			VPI:	14						
	VA (VAi+VAp):	27			VCA (VA+VPI):	40			VA (VAi+VAp):	26			VCA (VA+VPI):	40						
	din care:				9	1	6	1	11	(c, s, l, p, VAp)				8	0	4	3	11	(c, s, l, p, VAp)	

**PLAN DE ÎNVĂȚĂMÂNT**  
 An universitar 2019 - 2020  
 ANUL II

	SEMESTRUL 3										SEMESTRUL 4									
1	Elective 3 set 3M1										Practical Training/Research (7 weeks x 14 hours/week)									
	M232.19.03.A1-ij	7	E	28	0	14	0		DA	140	M232.19.04.S1	10	D	0	0	0		98	DS	162
2	Elective 4 set 3M2										Master Thesis Elaboration (7 weeks x 14 hours/week)									
	M232.19.03.V1-ij	7	E	28	0	0	14		DCAV	140	M232.19.04.S2	10	D	0	0	0		98	DS	162
3	Mobile Communication networks										Master Thesis Exam									
	M232.19.03.S3	8	E	28	0	28	0		DS	152	M232.19.04.S3	10	E	0	0	0		0	DS	
4	Optical Communication Systems and Networks																			
	M232.19.03.V4	8	D	28	0	28	0		DCAV	152										
total/ sem.	ore:	196			VPI:	584			ore:	196			VPI:	324						
	credite:	30			evaluări:	8			credite:	30			evaluări:	8						
total / săpt.	ore:	14			3E, 1D						ore:	14			1E, 2D					
	din care:				8	0	5	1	(c, s, l, p)				0	0	0	14	(c, s, l, p)			

**Competențe profesionale:**

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.

**DISCIPLINE OPTIONALE**  
An universitar 2019 - 2020  
**ANUL I**

SEMESTRUL 1											SEMESTRUL 2										
01	Radio Network Design (*) Elective 1M1.1 from set 1M1										Network Planning (*)										
	M232.19.01.A1-01	5	D	28	0	28	0	28	DA	36	M232.19.02.A1-01	5	E	28	0	14	0	DA	42		
02	Statistic and Stochastic Modelling Elective 1M1.2 from set 1M1										Computer Networks Administration										
	M232.19.01.A1-02	5	D	28	0	28	0	28	DA	36	M232.19.02.A1-02	5	E	28	0	14	0	DA	42		
03	Modern Programming Techniques Elective 1M1.3 from set 1M1																				
	M232.19.01.A1-03	5	D	28	0	28	0	28	DA	36											
04																					

**DISCIPLINE OPTIONALE**  
An universitar 2019 - 2020  
**ANUL II**

SEMESTRUL 3											SEMESTRUL 4										
01	Resource Management in Wireless Networks (*) discipline 3M1.1 from set 3M1																				
	M232.19.03.A1-01	7	E	28	0	14	0		DA	140											
02	Wideband Communication Networks discipline 3M1.2 from set 3M1																				
	M232.19.03.A1-02	7	E	28	0	14	0		DA	140											
03	Advanced Multimedia Technologies discipline 3M2.1 from set 3M2																				
	M232.19.03.V1-03	7	E	28	0	0	14		DCAV	140											
04	IoT Systems (*) discipline 3M2.2 from set 3M2																				
	M232.19.03.V1-04	7	E	28	0	0	14		DCAV	140											

Legenda											Exemplu										
Nume disciplina											Tehnologii avansate de măsurare										
Cod	nc	FE	c	s	l	p	VAp	CF	VPI		M170.17.01.V1	8	E	28	0	28	0	49	DCAV	50	
<b>Cod</b> = cod disciplina <b>nc</b> = nr.credite transferabile <b>FE</b> = forma de evaluare <b>FE</b> ∈ {E, D, C} <b>E</b> =examen <b>D</b> =evaluare distribuita <b>C</b> =colocviu <b>c</b> =nr.ore curs/semestru <b>s</b> =nr.ore seminar <b>l</b> =nr.ore laborator <b>p</b> =nr.ore proiect <b>VAp</b> - volum de ore necesar activitatilor partial asistate											<b>CF</b> =categoria formativa careia ii apartine disciplina CF={DA, DCAV, DS, DC} <b>DA</b> - disciplina de aprofundare <b>DCAV</b> - disciplina de cunoastere avansata <b>DS</b> - disciplina de sinteza <b>DC</b> - disciplina complementara <b>VPI</b> = volum de ore necesar pregatirii individuale pentru un semestru de 14 sapt. plus 4 sapt. de sesiune <b>VAI</b> - volum de ore necesar activitatilor integral asistate=c+s+l+p <b>VA</b> - volum de ore necesar activitatilor integral asistate si al celor asistate partial=VAI+Vap <b>VCA</b> - volum de ore cumulat al tuturor activitatilor = VA+VPI										
(*) - discipline optionale activate in anul universitar 2019 / 2020																					

RECTOR,  
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DECAN,  
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