UNIVERSITATEA TEHNICĂ DIN CUU-NAPOCA

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Facultatea de Electronică, Telecomunicații și Tehnologia Informației



SYLLABUS

1. Data about the program of study

1.1 Institution	Technical University of Cluj-Napoca
1.2 Faculty	Faculty of Electronics, Telecommunications and Information
1.2 Faculty	Technology
1.3 Department	Communications
1 4 Field of ot. d.	Electronic Engineering, Telecommunications and Information
1.4 Field of study	Technologies
1.5 Cycle of study	Bachelor of Science
1.6 Program of study / Qualification	Telecommunications Technologies and Systems/ Engineer
1.7 Form of education	Full time
1.8 Subject code	TST-E58.00

2. Data about the subject

2.1 Subject name Diplom			na P	roje	ct Elaboration				
		Theore	Theoretical area:						
		Metho	Methodological area:						
			lytic area:						
2.3 Course responsible			-						
2.4 Teacher in charge with seminar /			D:-		a Thania Canadinatan				
laboratory / project			ווט	oiom	a Thesis Coordinator				
2.5 Year of study 3 2.6 Semester				8	2.7 Assessment	٧	2.8 Subject category	DS/DI	

3. Estimated total time

3.1 Number of hours per week	4	of which:	3.2 course	0	3.3 Project	4
3.4 To Total hours in the curriculum	.4 To Total hours in the curriculum 56 of which: 3.5 course 0 3.6 Project		3.6 Project	56		
Distribution of time						Hours
Manual, lecture material and notes, bibliography						0
Supplementary study in the library, online specialized platforms and in the field					0	
Preparation for seminars / laboratories, homework, reports, portfolios and essays					0	
Tutoring					0	
Exams and tests					0	
Other activities: Practical Work					44	

3.7 Total hours of individual study	44
3.8 Total hours per semester	100
3.9 Number of credit points	4

4. Pre-requisites (where appropriate)

4.1 curriculum	N. A.
4.2 competence	N. A.



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5. Requirements (where appropriate)

5.1. for the course	N.A.
5.2. for the seminars / laboratories / projects	N.A.

6. Specific competences

Professional competences	C6. Solving specific problems of the broadband communications networks: propagation in different environment, circuits and equipment for high frequencies (microwaves and optical).
Cross competences	CT1: Methodical analysis of the problems encountered in the activity, identifying the elements for which there are established solutions, thus ensuring the fulfillment of professional tasks. CT2: Defining the activities in each stage and distributing them to the subordinates with the complete explanation of the duties, according to the hierarchical levels. It ensures the efficient exchange of information and inter-human communication. CT3: Adaptation to new technologies, professional and personal development, through continuous training. Use of printed documentation sources, specialized software and electronic resources in Romanian and in (at least) one language of international circulation.

7. Discipline objectives (as results from the key competences gained)

7.1 General objective	Development of diploma project (fundamentals and design parts) in order to obtain the degree Telecommunications Technologies and Systems.
7.2 Specific objectives	 Obtaining the fundamental knowledge and designing the proposed solution of the diploma project. Preliminary presentation in a competition such as the Student Symposium in Electronics and Telecommunications SSET (optional)

8. Contents

8.1	Project	Teaching methods	Notes
1.	Research Planning		
2. State-of-the-art Study			
3. Fundamental Knowledge			
4. Solution Design		N/A	N/A
5.	Theoretical Evaluation of the Solution		
6.	Proposal for implementation/simulation methods		
7.	Experiments Planning		

References:

1. Recommended by the Diploma Thesis Coordinator

On-line references

2. Recommended by the Diploma Thesis Coordinator

UNIVERSITATEA TEHNICA DIN CHIMAGA

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9. Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

The discipline content and the acquired skills are in agreement with the expectations of the professional Competences acquired will be used in the following COR occupations (Electronics Engineer; Telecommunications Engineer; Electronics Design Engineer; System and Computer Design Engineer; Communications Design Engineer) or in the new occupations proposed to be included in COR (Sale Support Engineer; Multimedia Applications Developer; Network Engineer; Communications Systems Test Engineer; Project Manager; Traffic Engineer; Communications Systems Consultant).

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade
10.4 Course	-	-	-
10.5 Seminar/ Laboratory	The level of acquired knowledge and abilities	- Continuous formative evaluation - practical lab test	100%

10.6 Minimum standard of performance

Qualitative point of view

Minimal theoretical and practical knowledge:

- ✓ Development of diploma project: fundamentals parts in order to obtain the degree Telecommunications Technologies and Systems.
- ✓ Development of diploma project: design parts in order to obtain the degree Telecommunications Technologies and Systems.

Minimal acquired competences:

✓ Obtaining the fundamental knowledge and designing the proposed solution of the diploma project.

Quantitative point of view

Mark ≥ 5

Date of filling in:	Responsible	Title First name SURNAME	Signature
20.06.2023	Applications	Diploma Thesis Coordinator	
	Applications		

DDate of approval in the Council of the
Communications Department
Prof. Virgil DOBROTA, Ph.D.

Date of approval in the Council of Faculty of Electronics,
Telecommunications and Information Technology
12.07.2023

Head of Communications Department
Prof. Virgil DOBROTA, Ph.D.

Dean
Prof. Ovidiu POP Ph.D.