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 Technology
1.3 Department	Communications
1.4 Field of study	Electronic Engineering, Telecommunications and Information 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-E59.00

2. Data about the subject

2.1 Subject name	Field-Specific Research for the Graduation Project						
2.2 Subject area	Theoretical area: Methodological area: Analytic area:						
2.3 Course responsible	-						
2.4 Teacher in charge with seminar / laboratory / project	Diploma Thesis Coordinator						
2.5 Year of study	3	2.6 Semester	8	2.7 Assessment	V	2.8 Subject category	DS/DI

3. Estimated total time

3.1 Number of hours per week	5	of which: 3.2 course	0	3.3 Practical Work for Research (PR)	5
3.4 To Total hours in the curriculum	70	of which: 3.5 course	0	3.6 Practical Work for Research (PR)	70

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	30

3.7 Total hours of individual study	30
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.

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.

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

7.1 General objective	Practice for the graduation project in order to obtain the degree in Telecommunications Technologies and Systems
7.2 Specific objectives	1. Experimental results and their interpretations

8. Contents

8.1. Practical Work for Research	Teaching methods	Notes
N/A	N/A	N/A
References: 1. Recommended by the Diploma Thesis Coordinator **On-line references** 2. Recommended by the Diploma Thesis Coordinator		

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	100%
10.6 Minimum standard of performance			
Qualitative point of view Minimal theoretical and practical knowledge: ✓ Practice for the graduation project in order to obtain the degree in Telecommunications Technologies and Systems. Minimal acquired competences: ✓ Experimental results and their interpretations. **Quantitative point of view** Mark ≥ 5			

Date of filling in:	Responsible	Title First name SURNAME	Signature
16.06.2025	Applications	Diploma Thesis Coordinator	

Date of approval in the Council of Communications Department 18.06.2025	Head of Communications Department Prof. Virgil DOBROTA, Ph.D.
Date of approval in the Council of Faculty of Electronics, Telecommunications and Information Technology 25.06.2025	Dean Prof. Ovidiu POP, Ph.D.