

PRACTICAL WORK SYLLABUS ¹

1. Information about the program

1.1 Higher education institution	Politehnica University Timisoara
1.2 Faculty ² / Department ³	ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES / Communications
1.3 Field of study (name/code ⁴)	Electronics, Telecommunications and Information Technologies Engineering /202010
1.4 Study cycle/Type of study program ⁵	Master / Research Master
1.5 Study program (name/code/qualification)	Communications Networks / 20.20.10

2. Information about discipline

2.1a Type of practical work ⁶	Research practice 1						
2.1b Type of practical work in Romanian	Practică de cercetare 1						
2.2 Coordinator (holder) of applied activities ⁷	Prof. dr. eng. Corina Nafornta						
2.3 Year of study ⁸	1	2.4 Semester	1	2.5 Type of evaluation	V	2.6 Regime of discipline ⁹	DOB
2.7 Academic year ¹⁰	2025-2026	2.8. Cod of discipline	M232.25.01.C6				

3. Total estimated time (direct practical activities, partially assisted activities)

3.1 Number of hours fully assisted/week	10.5
3.2 Total number of hours fully assisted/sem.	14.29
3.3 No. of credits	8

4. Prerequisites (where applicable)

4.1 Curriculum	• n/a
4.2 Learning outcomes	• n/a

5. Mission of the Practical Work and conditions for its accomplishment¹⁰

5.1 Mission	• Developing the student's research skills
5.2 Conditions required to carry out the practical work	• It is carried out in our own laboratories, in research laboratories, or in partnership with the industry.

6. Learning outcomes ¹¹ acquired through practical work in accordance with the mission

Knowledge	<ul style="list-style-type: none"> • C1. The student/graduate knows research methods, techniques and paradigms • C7. The student/graduate knows the principles of professional communication C8. The student/graduate knows the terminology and conventions of technical communication • C8. The student/graduate knows the terminology and conventions of technical communication • C11. The student/graduate knows communication technologies and protocols
Skills	<ul style="list-style-type: none"> • A7. The student/graduate presents ideas and results in academic/professional contexts • A8. The student/graduate explains complex concepts for different audiences • A9. The student/graduate applies complementary approaches in research projects • A11. The student/graduate selects and applies communication methods appropriate to the context
Responsibility and autonomy	<ul style="list-style-type: none"> • RA1 The student/graduate independently manages a research process and critically evaluates the results • RA4 The student/graduate ensures the correctness and relevance of the conclusions drawn • RA8 The student/graduate adapts to various professional communication contexts

7. Objectives of the discipline (related to the learning outcomes presented at point 6)

- Developing the student's research skills
- Identifying a topic and correctly presenting it
- Documenting and critically analyzing the current state of the art for the chosen research topic
- Introduction into the management of a research project

8. Topics and activities for practical work¹²**8.1** Topics for practical work

Documentation and critical analysis of the current state of the art in the field of a specific research topic. The topic chosen is in the field of the master's program, established based on discussion with the coordinator, possibly chosen from a list of topics proposed by teaching staff who have activities in this master's program or by companies

8.2 Type of activities**8.3** Duration

Scientific analysis and writing, implementation, presentation, management of research activity carried out through: - partially assisted activities

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9. Student's assignments¹³**10. Evaluation**

10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share of the final grade
Knowledge of specialized concepts and terms	Examination by the coordinator	1/2
The manner in which the research report is written is evaluated	Examination by the coordinator	1/2
10.4 Minimum performance standard (minimum amount of knowledge necessary to pass the discipline and the way in which this knowledge is verified ¹⁴)		
<ul style="list-style-type: none"> • The student is able to solve a research problem and write a research report based on a process of documentation and individual development of solutions 		

Date of approval in the Faculty Council¹⁵

07.10.2025

Dean
(signature)

Date of completion

22.09.2025

Head of Department
(signature)

Coordinator of applied activities
(signature)