

SYLLABUS

1. Program information

1.1 Higher education 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 Study program / Qualification	Telecommunications technologies and systems / Engineer
1.7 Form of education	IF – full-time education

2. Course information

2.1 Course title	German language	Course code	51.30
2.2 Course coordinator	<i>teaching rank, title First name Last name - Email address</i>		
2.3 Seminar/ laboratory/ project/ practical activity coordinator	Lect. dr. Mona Tripon, Mona.Tripon@lang.utcluj.ro		
2.4 Year of study	IV	2.5 Semester	1
		2.6 Type of assessment	V
2.7 Course status	Formative category		DC
	Optionality		DOP

3. Estimated total time

3.1 Hours per week	1	of which:	3.2 Lecture	1	3.3 Seminar	0	3.3 Laboratory	0	3.3 Project	0	3.3 Practical training	0
3.4 Hours per semester	14	of which:	3.5 Lecture	14	3.6 Seminar	0	3.6 Laboratory	0	3.6 Project	0	3.3 Practical training	0
3.7 Time distribution (hours per semester) for individual study and assessment:												
(a) Assessment											2	
(b) Study using textbook, course materials, bibliography, and notes											2	
(c) Additional documentation in the library, on specialized electronic platforms, and in the field											2	
(d) Preparation for seminars/laboratories, assignments, reports, portfolios and essays											5	
(e) Tutoring												
(f) Other activities												
3.8 Total hours of individual study and assessment (sum of (3.7(a))...(3.7(f)))									11			
3.9 Total hours per semester (3.4+3.8)									25			
3.10 Number of credits									1.0			

4. Prerequisites (where applicable)

4.1 curriculum	
4.2 competencies	Minimum level A2/B1 according to the Common European Framework of Reference for Languages and the European Language Portfolio.

5. Requirements (where applicable)

5.1. for the development of the lecture	
5.2. for the development of the seminar/ laboratory/ project	

6. Specific competencies acquired

Professional competencies	Developing and drafting scientific and technical documents in accordance with academic standards. - Using relevant bibliographic sources and citing them correctly. - Structuring and presenting research results in a clear and rigorous manner. - Applying ethical standards in scientific communication.
Transversal competencies	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. Expected learning outcomes

Knowledge	Upon completion of the course, the student will: - understand the principles and rules of scientific and technical writing; - identify the structure and specific elements of a scientific paper, a technical report, and a bachelor's thesis; - be familiar with the main sources of scientific information and how to access them; - describe the citation and bibliographic referencing standards used in the technical field; - explain the principles of research ethics, academic integrity, and intellectual property protection;
Skills	- to write scientific and technical texts using appropriate academic language and a logical structure; - to draft abstracts, introductions, conclusions, and sections presenting results; - to correctly use citation methods and bibliographic references in accordance with field-specific standards; - apply formatting and editing rules for the preparation of academic and technical documents;

Responsibility and autonomy	- The student/graduate applies the values of ethics and professional deontology specific to the engineering profession. - The student/graduate applies logical reasoning, evaluation and self-assessment in decision-making. - The student/graduate communicates effectively about engineering activities with a wide range of audiences. - The student/graduate is engaged in lifelong learning in order to acquire and implement knowledge, as needed, using appropriate learning strategies. - The student/graduate promotes dialogue, cooperation, respect for others and interculturality. - The student/graduate works effectively as a team member or as a team leader. - The student/graduate fluently uses at least one international language in technical communication.
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8. Course objectives (based on the grid of specific competencies acquired)

8.1 General objective of the course	Developing the skills necessary for drafting and presenting scientific and technical documents specific to the field of engineering.
8.2 Specific objectives	By the end of the course, students will be able to: - identify the structure of a scientific paper; - write abstracts and technical articles; - correctly use bibliographic sources and citation standards; - avoid plagiarism and other forms of academic misconduct; - write and format a technical re

9. Contents

9.1 Lecture	No. of hours	Teaching methods	Remarks
1. Introduction to Scientific Communication and Writing. Characteristics of Technical and Scientific Texts.		Interactive teaching, teaching using digital and multimedia technologies, individual/group work, individual/group projects	Exercises and assignments are selected based on the skill level appropriate for the group
2. The Structure of a Scientific Paper: title, abstract, keywords, introduction, methodology, results, conclusions.			
3. Scientific Research. Academic sources, databases, and criteria for selecting specialized literature.			
4. Citation and bibliographic references. Citation styles. Use of bibliographic management software.			
5. Ethics in research and writing. Plagiarism, self-plagiarism, and the responsible use of artificial intelligence and digital resources.			
6. Writing and formatting a technical report or scientific article.			
7. Final assessment			
1. Introduction to Scientific Communication and Writing. Characteristics of Technical and Scientific Texts.			
2. The Structure of a Scientific Paper: title, abstract, keywords, introduction, methodology, results, conclusions.			
Bibliography			

9.1 Lecture	No. of hours	Teaching methods	Remarks
1. Lindenlauf, F. (2022): <i>Wissenschaftliche Arbeiten in den Ingenieur-und Naturwissenschaften. Ein praxisorientierter Leitfaden für Semester-und Abschlussarbeiten</i> , Springer Spektrum. 2. Steinmetz, M./Dintera, H.(2018), <i>Deutsch für Ingenieure. Ein DaF – Lehrwerk für Studierende ingenieurwissenschaftlicher Fächer</i> , Springer Vieweg. 3. Zimmermann, Günther (2010), <i>Texte schreiben-einfach, klar, verständlich. Berichte, Präsentationen, Referate, Anleitungen, Dokumentationen</i> , Edition Praxis.Wissen, Verlag Business Village.			

10. Alignment of the course contents with the expectations of the epistemic community, professional associations, and representative employers in the field related to the program

The course content and the teaching-learning-assessment methods are aligned with the current requirements of the Electronics, Telecommunications, and Information Technology Engineering field, considering the expectations of the academic and professional community, representative employers, as well as the national quality assurance standards in higher education. The course helps prepare students in line with employer expectations and the quality requirements set for engineering study programs.

11. Assessment

Activity type	11.1 Assessment criteria	11.2 Assessment methods (and type of assessment: continuous/summative)	11.3 Weight in final grade
11.4 Lecture	Adherence to the structure of a scholarly paper; Proper use of at least 5 bibliographic sources; Application of a recognized citation style; Adherence to standards of academic ethics and integrity.	Final Project: a short paper (3–4 pages) on a technical topic	100%
11.5 Seminar/Laboratory/Project /Practical activity			
11.6 Minimum performance standard Completion of at least 60% of the requirements for drafting the requested document.			

Completion date:	Course coordinators	teaching rank, title First name LAST NAME	Signature
23.06.2026	Lecture	Lect. dr. Mona TRIPON	
	Applications		

Approval of the Head of the Department coordinating the course, only if this differs from the department organizing the study program	Head of the Modern Languages and Communication Department Assoc. Prof. Ruxanda LITERAT, Ph.D.
Date of approval by the Council of the Department of Communications 26.06.2026	Head of the Communications Department Prof. Virgil DOBROTĂ, Ph.D.
Date of approval by the Council of the Faculty of Electronics, Telecommunications and Information Technology 30.06.2026	Dean, Prof. Ovidiu-Aurel POP, Ph.D.