

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	French language	Course code	51.20
2.2 Course coordinator	Assoc. Prof. Cristiana Bulgaru, PhD , Cristiana.Bulgaru@lang.utcluj.ro		
2.3 Seminar/ laboratory/ project/ practical activity coordinator	Assoc. Prof. Cristiana Bulgaru, PhD , Cristiana.Bulgaru@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		
	Optionality		
	DC		
	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											3	
(c) Additional documentation in the library, on specialized electronic platforms, and in the field											3	
(d) Preparation for seminars/laboratories, assignments, reports, portfolios and essays											3	
(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	Passing the foreign languages subject 1 and 2.
4.2 competencies	Level B1-B2 The Common European Framework of Reference for Languages (CEFR)

5. Requirements (where applicable)

5.1. for the development of the lecture	Individual study and homework completion.
5.2. for the development of the seminar/ laboratory/ project	

6. Specific competencies acquired

Professional competencies	CP1 Use of the French language in academic and research contexts specific to the fields of electronics and telecommunications. CP2 Preparation and drafting of scientific and technical documents in accordance with academic standards. CP3 Selection, critical analysis and integration of information from the scientific literature. CP4 Application of citation, referencing and research reporting standards. CP5 Use of digital tools for literature search, bibliographic management and academic writing.
Transversal competencies	CT1 Efficient organization of individual research and academic writing activities. CT2 Application of critical thinking in the evaluation of information and documentary sources. CT3 Adaptation to emerging technologies and commitment to professional and personal development through lifelong learning, using printed resources, specialized software, and electronic resources in Romanian and at least one international language (French). CT4 Responsible and transparent use of digital technologies and artificial intelligence in academic work. CT5 Respect for the principles of academic ethics and integrity.

7. Expected learning outcomes

Knowledge	Upon successful completion of the course, the student / graduate will be able to demonstrate knowledge of: • the characteristics of academic communication and scientific and technical discourse; • the standard structure of a scientific paper; • the main types of academic sources and the criteria for evaluating their reliability and relevance; • the principal citation styles and the rules governing bibliographic references; • the principles of research ethics and academic writing; • the advantages and limitations of using artificial intelligence in research activities.
Skills	Upon successful completion of the course, the student / graduate will be able to: • draft the different sections of a scientific paper or review article; • select and synthesize relevant information from the scientific literature; • integrate quotations and bibliographic references correctly; • use bibliographic management software and digital tools for academic writing; • revise and improve an academic text according to scientific and linguistic criteria; • use artificial intelligence tools critically and responsibly.

Responsibility and autonomy	Upon successful completion of the course, the student / graduate will be able to: • demonstrate autonomy in researching and drafting scientific and technical texts; • apply academic standards in academic writing and professional communication; • comply with the principles of academic ethics and integrity; • take responsibility for the originality and accuracy of the information used; • use digital resources and artificial intelligence applications responsibly; • apply the ethical values and professional standards of the engineering profession; • promote dialogue, cooperation, respect for others and intercultural awareness; • work effectively both as a team member and as a team leader; • communicate fluently in technical contexts in at least one international language.
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8. Course objectives (based on the grid of specific competencies acquired)

8.1 General objective of the course	To develop students' academic writing and communication skills in French through the acquisition of the principles of scientific and technical writing, research ethics, and international standards for documentation, citation, and the presentation of research finding
8.2 Specific objectives	• To identify the characteristics of academic and scientific discourse; • To organize and draft the different sections of a scientific paper; • To identify, select, and use academic sources relevant to a research topic; • To apply citation and bibliographic referencing standards correctly; • To comply with the principles of academic ethics and research integrity; • To use artificial intelligence applications critically and responsibly in research and academic writing; • To prepare a scientific paper or review article in accordance with academic conventions and requirements regarding both content and format.

9. Contents

9.1 Lecture	No. of hours	Teaching methods	Remarks
1. Introduction to scientific communication and academic writing. Characteristics of scientific and technical texts.	2	• Interactive lecture; • Analysis of scientific papers; • Case studies; • Hands-on exploration of academic writing software and artificial intelligence tools	
2. Structure of a scientific paper: Title, abstract, keywords, introduction, methodology, results, conclusion.	2		
3. Scientific literature review: Academic sources, databases, and criteria for selecting relevant literature.	2		
4. Citation and bibliographic references: Citation styles and the use of bibliographic management software.			

9.1 Lecture	No. of hours	Teaching methods	Remarks
5. Research ethics and academic writing Plagiarism, self-plagiarism, responsible use of artificial intelligence and digital resources	2		
6. Writing and formatting technical reports, scientific papers and review articles	2		
7. Evaluation of scientific papers / review articles / technical reports prepared by students	2		
Bibliography: 1. Bulgaru Cristiana, Course materials 2. Dubois, J-M., <i>La rédaction scientifique</i> , ESTEM, AUF, 2005 3. Eco, Umberto, (2020), <i>Cum se face o teză de licență</i> , Ed. Polirom, Iași , trad.G.Popescu – reeditat; 4. Rad, Ilie (2017), <i>Cum se scrie un text științific – disciplinele umaniste</i> , Ed. Polirom, Iași 5. Ghidul de elaborare a lucrărilor de licență și disertație al UTCN			
Online references: 1. Eco, Umberto, Comment écrire sa thèse, https://ia600705.us.archive.org/11/items/LisTesRaturesarchive/Comment%20ecire%20sa%20these%20-%20Eco%2C%20Umberto.pdf [16.06.2026] 2. Bohar, A-D et alii (2024), „Rédaction et publication d’un article scientifique”, in International Journal of Current Research Vol. 16, Issue, 10, pp.30283-30289, https://www.researchgate.net/publication/386282046_REDATION_ET_PUBLICATION_D'UN_ARTICLE_SCIENTIFIQUE [15.05.2026] https://intellectualead.com/fr https://sonix.ai/ai/fr https://www.textbroker.fr			

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	• Compliance with the standard structure of a scientific paper or technical report; • Appropriate use of at least five bibliographic references;	Final project: A scientific paper, review article, or technical report (3–4 pages) on a scientific or technical topic.	100%

	• Correct application of a recognized citation style; • Compliance with the principles of academic ethics and integrity; • Transparent declaration of the use of artificial intelligence tools.		
11.5 Seminar/ Laboratory/ Project /Practical activity	-		
11.6 Minimum performance standard Compliance with at least 60% of the assessment criteria.			

Completion date:	Course coordinators	teaching rank, title First name LAST NAME	Signature
23.06.2026	Lecture	Assoc. Prof. Cristiana BULGARU, PhD	
	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.
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Date of approval by the Council of the Department of Communications	Head of the Communications Department Prof. Virgil DOBROTĂ, Ph.D.
26.06.2026	
Date of approval by the Council of the Faculty of Electronics, Telecommunications and Information Technology	Dean, Prof. Ovidiu-Aurel POP, Ph.D.
30.06.2026	