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	Bases of Electronics
1.4 Field of study	Electronic engineering, telecommunications and information technologies
1.5 Cycle of study	Bachelor of Science
1.6 Study program / Qualification	Applied Electronics/ Engineer
1.7 Form of education	IF – full-time education

2. Course information

2.1 Course title	English 3				Course code	52.10
2.2 Course coordinator	*Lecturer Monica Negoescu, Ph.D.* *monica.negoescu@lang.utcluj.ro*					
2.3 Seminar/ laboratory/ project/ practical activity coordinator						
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	Completion of the English Language 1 and 2 courses and seminars.
4.2 competencies	B1/B2 level, in accordance with the Common European Framework of Reference for Languages (CEFR) and the European Language Portfolio.

5. Requirements (where applicable)

5.1. for the development of the lecture	Completion of the assigned topics for independent study.
5.2. for the development of the seminar/ laboratory/ project	

6. Specific competencies acquired

Professional competencies	Preparation and drafting of scientific and technical documents in accordance with academic standards. Use of relevant bibliographic sources and proper citation practices. Structure and present research findings in a clear and rigorous manner. Apply ethical standards in scientific communication.
Transversal competencies	CT1 Methodical analysis of problems encountered in professional activity, identifying the elements for which established solutions exist, thereby ensuring the fulfilment of professional tasks CT3 Adaptation to new technologies and professional and personal development through continuous training using printed documentation sources, specialized software and electronic resources in Romanian and in at least one language of international circulation

7. Expected learning outcomes

Knowledge	At the end of the course, the student: - Is familiar with the principles and rules of scientific and technical writing; - Identifies the structure and specific components of a scientific paper, a technical report, and a bachelor's thesis; - Is familiar with the main sources of scientific information and the methods for accessing them; - Describes the citation and bibliographic referencing standards used in technical fields; - Explains the principles of research ethics, academic integrity, and intellectual property protection; - Is familiar with the digital tools used for literature research, reference management, and the preparation of scientific documents.
Skills	By the end of the course, the student will be able to: - Write scientific and technical texts using appropriate academic language and a logical structure; prepare abstracts, introductions, conclusions, and results sections; - Correctly apply citation methods and bibliographic references in accordance with discipline-specific standards; - Apply formatting and editing guidelines for the preparation of academic and technical documents; - Use software applications for bibliography management and document compliance verification; - Present and coherently justify the results of a documentation or research activity.

Responsibility and autonomy	At the end of the course, the student: - Demonstrates responsibility in complying with the principles of academic ethics and integrity; - Uses information sources and the work of other authors correctly and transparently; - Assumes responsibility for the quality and accuracy of the documents they produce; - Independently manages the processes of research, organization, and writing of a technical or scientific paper; - Complies with the professional standards of written communication specific to the field of engineering; - Collaborates effectively in peer assessment and the review of technical documents.

8. Course objectives (based on the grid of specific competencies acquired)

8.1 General objective of the course	Development of the skills required for writing 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; • use bibliographic sources and citation standards correctly; • avoid plagiarism and other forms of academic misconduct; write and format a technical report or a bachelor's thesis.

9. Contents

9.1 Lecture	**No. of hours**	**Teaching methods**	**Remarks**
Introduction to Scientific Communication and Academic Writing. Characteristics of technical and scientific texts.	2	Interactive lectures, analysis of scientific articles, case studies, and the use of digital applications.	
Structure of a Scientific Paper**:** title, abstract, keywords, introduction, methodology, results, and conclusions.	2		
Scientific Research Methods**.** Academic sources, research databases, and criteria for selecting relevant scholarly literature.	2		
Citation and Bibliographic References. Citation styles and the use of bibliographic management software.	2		
Research and Writing Ethics**.** Plagiarism, self-plagiarism, the responsible use of artificial intelligence, and digital resources.	2		
Writing and Formatting a Technical Report or Scientific Article.	2		
Final Assessment.	2		
Bibliography 1. Alley, M. – *The Craft of Scientific Writing*, Springer, 2018 2. Hofmann, A. H. – *Scientific Writing and Communication*, Oxford University Press, 2022 3. Ghidul de elaborare a lucrărilor de licență și disertație al UTCN			

9.2 Seminar /laboratory /project /practical training	**No. of hours**	**Teaching methods**	**Remarks**

9.2 Seminar /laboratory /project /practical training	No. of hours	Teaching methods	Remarks
Bibliography			

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 structure of a scientific paper. Correct use of at least five bibliographic sources. Application of a recognized citation style. Compliance with the principles of academic ethics and integrity.	Final project: A 3–4-page mini research article on a technical topic.	100%
11.5 Seminar/ Laboratory/ Project /Practical activity			
11.6 Minimum performance standard Specialized terminology is used correctly, at least at the B1 level of the Common European Framework of Reference for Languages (CEFR). The text of the mini-article is free of grammatical errors.			

Completion date:	Course coordinators	teaching rank, title First name LAST NAME	Signature
23.06.2026	Lecture	Lecturer Monica NEGOESCU, Ph.D.	
	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 Cummunication Department Assoc.prof. Ruxanda LITERAT, Ph.D.

Date of approval by the Council of the Department of Bases of Electronics 26.06.2026	Head of the Bases of Electronics Department Prof. Sorin HINTEA, 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.