

SYLLABUS

1. Program Information

1.1 Higher education institution	Technical University of Cluj-Napoca
1.2 Faculty	Faculty of Automation and Computer Science
1.3 Department	Department of Automation
1.4 Field of study	Automation, Applied Informatics and Intelligent Systems
1.5 Cycle of studies	Bachelor
1.6 Study Program/Qualification	Intelligent Automation Systems (dual, in English language)
1.7 Form of education	IF – full-time education
1.8 Course code	7.10

2. Course information

2.1 Course title	English Language 1				
2.2 Course lecturer	-				
2.3 Seminar / Laboratory / Project Lecturer	Assoc. Prof. Cecilia Policsek, Cecilia.Policsek@lang.utcluj.ro Ing. Carmen Gorga (<i>Emerson</i>)				
2.4 Year of study	1	2.5 Semester	1	2.6 Type of assessment	V
2.7 Course status	Formative category (<i>DF, DS, DC</i>)				DC
	Optionality (<i>DOB, DOP, DFac</i>)				DOP

3. Total estimated time

Total estimated time											
3.1 Number of hours per week	2	of which:	HEI	Lecture	0	Seminar	1	Laboratory	0	Project	0
			CO		0				0		
3.2 Number of hours per semester	28	of which:	HEI	Lecture	0	Seminar	14	Laboratory	0	Project	0
			CO		0				0		
3.3 Distribution of time allocation (hours per semester) for:								HEI		CO	
(a) Study based on textbook, course support, bibliography, and notes								4		4	
(b) Additional documentation in library, specialized electronic platforms, and fieldwork								-		-	
(c) Preparation of seminars/laboratories, assignments, papers, portfolios and essays								5		5	
(d) Tutoring								-		-	
(e) Examinations								2		2	
(f) Other activities:								-		-	
3.4 Total individual study hours (sum (3.3(a)... 3.3(f)))								11		11	
3.5 Total hours per semester (3.2+3.4)								25		25	
3.6 Number of credits per semester								1		1	

(HEI = Higher Education Institution, CO = Company)

4. Prerequisites (where applicable)

4.1 Curriculum Prerequisites	<ul style="list-style-type: none"> Minimum knowledge in the professional, scientific and technical field
4.2 Competency Prerequisites	<ul style="list-style-type: none"> Foreign language proficiency level A1–B1 (according to the CEFR)

5. Conditions (where applicable)

5.1. Course Organization Conditions	-
5.2. Seminar / Laboratory / Project organization conditions	<ul style="list-style-type: none"> Attendance of the seminar is mandatory.

6. Specific Competencies Acquired

Professional Competencies	<ul style="list-style-type: none">• PC04 Conduct literature research• PC06 Define technical requirements• PC13 Interact professionally in research and professional environments
Transversal Competencies	<ul style="list-style-type: none">• TC02 Think analytically• TC04 Work in teams

7. Learning outcomes

Knowledge:	<ul style="list-style-type: none">• Understand the basic concepts of professional and technical communication;• Identify and describe the key characteristics of written and spoken communication in technical fields;• Recognize and use appropriate terminology specific to the students' technical specialization;• Be aware of cultural and contextual factors that influence professional communication;
Skills:	<ul style="list-style-type: none">• Apply appropriate communication strategies in technical and professional contexts;• Write clear and structured technical texts (e.g. reports, instructions, summaries, emails);• Participate effectively in discussions, meetings, and workgroups within a technical environment;• Take relevant and organized notes during professional interactions or while reading specialized texts;
Responsibility and autonomy:	<ul style="list-style-type: none">• Take responsibility for effective communication in professional settings;• Work independently to complete communication tasks and assignments;• Reflect on one's own professional development and identify areas for improvement;• Collaborate with peers in technical discussions, showing initiative and respect for diverse perspectives;

8. Course Objectives

8.1 General objective of the course	<ul style="list-style-type: none">• Development of communicative competence in a technical, scientific and professional context.
8.2 Specific objectives	<p>After completing the seminar, the student will be able to:</p> <ul style="list-style-type: none">• participate in meetings, work sessions, and collaborative activities, and express opinions, evaluations, and recommendations in this context;• take notes on topics related to their field of specialization;• read various types of texts in the technical field and extract both specific and general information;• write and speak about their professional skills and abilities, their needs, and their professional development;

9. Contents

9.1 Lectures		No. of hours		Teaching methods	Obs.
NA					
Bibliography					
9.2 Seminar / laboratory / project	Hours HEI	Hours CO	Teaching methods	Obs.	
1. The characteristics of the scientific and technical discourse. Reference to the features and usage patterns of technical and scientific terminology. Means of enriching vocabulary in the fields of science and technology.	2	-	Interactive teaching methods, collaborative work in teams or pairs, and individual or group/pair mini-projects, utilization of AI tools specific to the field of Foreign Languages Didactics	Exercises and tasks are selected according to the group's appropriate competence level for each topic.	
2. Linguistic structures specific to the technical and scientific domain, as applied to automation. Describing technical functions and applications. Explaining how technology works.	2	-			
3. Mathematical language in English: reference to numbers, geometric shapes, mathematical formulae, distances and units of measurement. Words to describe measurable parameters and fluctuations.	2	-			
4. Words used to describe automated systems and the automotive industry. Describing types of technical problems. Assessing and interpreting faults Describing the causes of faults. Discussing repairs and maintenance.	2	-			
5. Words used to describe intelligent buildings and automation. Automated systems and the concept of “smart”. Characteristics of the smart city. Societal debated related to the concept of “smart city”	2	-			
6. Explaining and assessing manufacturing. The vocabulary used within the field of industrial engineering to describe human-robot interaction.	2	-			
7. Evaluation	2	-			
Bibliography: <ul style="list-style-type: none">• Murphy, L. and M. Alley (2023). <i>The Craft of Scientific Films. How to Make Videos of Your Laboratory, Research, or Technical Projects</i>. New York : Springer.• Ibbotson, M. (2018). <i>English for Engineering</i>. Cambridge : Cambridge University Press.• Katsampoxaki-Hodgetts, K. & Hatzitheodoridou, E. (2019). <i>Academic English for Mathematics</i>. Disigma Publications• Lawrey, S. and E. Victoria (2021). <i>Cambridge IGCSE (TM) and O Level Computer Science Coursebook with Digital Access (2 Years)</i>. Cambridge: Cambridge University Press.• McCarthy, M. and F. O'Dell (2017). <i>English Vocabulary in Use. Cambridge</i>. Cambridge University Press.• Policsek, C. (2015). <i>English for Engineering Students</i>. Cluj-Napoca : UTPress.					
Seminar / laboratory / project	Hours HEI	Hours CO	Teaching methods	Obs.	
Project (14h) Communication at business level for Email/Presentation preparation. Communication in cross cultural teams The project focuses on developing professional communication skills for international business contexts, with a strong emphasis on email writing, presentation delivery and team collaboration across cultures. The main components are: <ul style="list-style-type: none">• Writing clear, professional business emails adapted to different cultural expectations	-	14	Task-based learning, Simulations , Collaborative learning	-	

<ul style="list-style-type: none"> Simulating teamwork in cross-cultural environments, with attention to communication styles and norms Preparing and delivering structured business presentations using formal, audience-appropriate language Reflecting on intercultural communication challenges and strategies for effective collaboration 				
Bibliography: [1] Engineering Emerson SharePoint [2] Emerson internal SharePoint for Operations Engineers Processes and Tools used				

10. Correlation of course content with the expectations of the epistemic community representatives, professional associations, and major employers in the field related to the program

The content of this course has been designed to align closely with the evolving expectations and standards set by representatives of the epistemic community, professional associations, and key employers in the field related to the program. This correlation ensures that:				
<ul style="list-style-type: none"> Language competence is developed in parallel with field-specific communicative needs, reflecting the terminology, discourse patterns, and communicative tasks commonly encountered in academic and professional settings; The course content supports multilingual communication, technical documentation, and digital communication; Professional associations in fields such as engineering, information technology, and applied sciences advocate for the integration of foreign language training with field-specific content to foster global mobility and intercultural competence; Employers consistently emphasize the need for graduates who can read and interpret technical documentation, communicate clearly in professional contexts, and collaborate on international projects, all of which are key objectives of this course; The inclusion of tasks such as report writing, technical description, instructions, and professional correspondence reflects authentic communication situations and prepares students for real-world workplace challenges. 				

11. Evaluation

Activity Type	Evaluation criteria	Evaluation methods	Weight in final grade
11.1 Lecture			
11.2 Seminar /Project	Test eligibility requires at least 80% class attendance.	Oral Evaluation and Projects Written Evaluation	50% 50%
11.3 Minimum Performance Standard The final grade will be calculated only if each component of the final evaluation is completed with at least 60% accuracy.			

Date of completion: 4.07.2025	Applications	Assoc. Prof. Cecilia Policsek	Signature
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Date of approval by the Department of Automation Council <u>24.11.2025</u>	Director of the Department of Automation Prof.dr.ing. Honoriu VĂLEAN
Date of approval by the Faculty of Automation and Computer Science Council <u>28.11.2025</u>	Dean Prof.dr.ing. Vlad MUREȘAN