

SYLLABUS

1. Program Information

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| 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 Programme/Qualification | Intelligent Automation Systems (dual, in English language) | | |
| 1.7 Form of education | IF – full-time education | | |
| 1.8 Course code | 7.20 | | |

2. Course information

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| 2.1 Course title | French Language 1 | | |
| 2.2 Course lecturer | - | | |
| 2.3 Seminar / Laboratory / Project Lecturer | Senior Lecturer Cristina Ana Măluțan- Cristina.Malutan@lang.utcluj.ro Ing. Ciprian Iakab (Emerson) | | |
| 2.4 Year of study | 1 | 2.5 Semester | 1 |
| 2.7 Course status | Formative category (DF, DS, DC) | | DC |
| | Optionality (DOB, DOP, DFac) | | DOP |

3. Total estimated time

| 3.1 Number of hours per week | 2 | of which: | HEI CO | Lecture | 0 | Seminar | 1 | Laboratory | 0 | Project | 0 |
|--|----|-----------|-----------|---------|---|---------|----|------------|----|---------|---|
| | | | | | 0 | | 0 | | 0 | | 1 |
| 3.2 Number of hours per semester | 28 | of which: | HEI CO | Lecture | 0 | Seminar | 14 | Laboratory | 0 | Project | 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)

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| 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)

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

6. Specific Competencies Acquired

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| 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

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| 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, etc);• 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

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| 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 |
| 1. Defining features and usage patterns of technical and scientific terminology. Means of enriching vocabulary in the technical and scientific field. | 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 |
| 2. Linguistic structures specific to the technical and scientific domain, as applied in computer science | 2 | | |
| 3. Mathematical language in the foreign language: numbers, describing geometric shapes, mathematical formulas, expressing distances and units of measurement. | 2 | | |
| 4. Familiarization with the field of computers and ICT-related language | 2 | | |
| 5. Describing computer systems and networks | 2 | | |
| 6. Expressing opinions and making recommendations, both orally and in writing, about a digital device or piece of equipment | 2 | | |
| 7. Evaluation | 2 | | |
| Bibliography: | | | |
| 1. Oddou, M. (2010), Informatique.com, Clé International, Paris | | | |
| 2. Tescula, C., Le français de la technique, UT.Press, Cluj-Napoca, 2005. (available at Biblioteca UTCN) | | | |
| 3. Lahmidi, Z., (2004), Sciences-techniques.com, Clé International, Paris | | | |
| 4. Tolas, J., Gewirtz, O., Carras, C. (2014), Réussir ses études d'ingénieur en français, PUG, Grenoble. | | | |
| 5. Măluțan, C., (2019), Découvrez le français de l'informatique, UTPress, Cluj-Napoca | | | |
| Seminar / laboratory / project | Hours HEI | Hours CO | Teaching methods |
| 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• 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 | | 14 | Task-based learning, simulations, collaborative learning |
| 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:

- 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 reflect 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 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. | | | |

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| Date of completion: 11.11.2025 | Lecturers | | Signature |
| | Course | | |
| | Applications | Senior Lecturer Cristina Ana Măluțan | |

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| Date of approval by the Department of Automation Council 24.11.2025 | Director of the Department of Automation Prof.dr.ing. Honoriu VĂLEAN |
| Date of approval by the Faculty of Automation and Computer Science Council 28.11.2025 | Dean Prof.dr.ing. Vlad MUREŞAN |