**course SYLLABUS**

# 1. Information about the study program

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| 1.1 University | Babeș-Bolyai University |
| 1.2 Faculty | The Faculty of Letters |
| 1.3 Department | The Department of Foreign Languages for Specific Purposes |
| 1.4 Field of study | Language and Literature |
| 1.5 Study cycle (BA/MA) | BA |
| 1.6 Study program/Qualification | BA |

# 2. Information about the subject

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| 2.1 Course title/Code | | LLU0013 English for specific purposes - practical course / Artificial Intelligence | | | | | | |
| 2.2 Course tutor | |  | | | | | | |
| 2.3 Seminar tutor | | Lector Octavia Raluca Zglobiu-Sandu | | | | | | |
| 2.4 Year of study | II | 2.5 Semester | 3 | 2.6 Type of assessment | E | 2.7 Course status | Contents | DC |
| Mandatory | DO |

# 3. Total estimated time (teaching hours per semester)

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| --- | --- | --- | --- | --- | --- |
| 3.1 Number of hours per week | 2 | of which: 3.2 course |  | 3.3 seminar/laboratory | 2 |
| 3.4 Total number of hours in the curriculum | 28 | of which: 3.5 course |  | 3.6 seminar/laboratory | 28 |
| Time distribution | | | | | Hours |
| Study based on textbook/course manual/recommended reading/personal notes | | | | | 10 |
| Additional research in the library, by accessing scientific databases, or during field work | | | | | 10 |
| Preparation for seminars/laboratory classes, essays, portfolios and reports | | | | | 10 |
| Tutoring | | | | | 6 |
| Assessment (examinations) | | | | | 6 |
| Other activities ................................... | | | | |  |
| 3.7 Total hours for individual study | 42 |  | | | |
| 3.8 Total hours per semester | 70 |  | | | |
| 3.9 Number of credits | 3 |  | | | |

# 4. Prerequisites (if necessary)

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| 4.1 Curriculum |  |
| 4.2 Skills | Minimum B1 level on CEFR scale |

# 5. Conditions (if necessary)

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| 5.1. For delivering lectures |  |
| 5.2. For teaching seminars/laboratory classes | * Multimedia classroom, interactive devices, projector and flat screen, audio system, printing services |

# 6. Acquired specific competences

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| Professional competences | C1 1 Identifying and understanding the sociocultural contexts and roles, the verbal and written communication conventions specific to the foreign language, in terms of reception (reading/listening), production (written/oral) and linguistic strategies.  C1 2 Identifying and understanding the contexts and roles, as well as the concepts, methods and the discourse/language that are specific to the different professional communication contexts within the academic environment, focusing on the rhetorical situation, written and oral communication, the stages of the writing process, academic writing production from within the field of social sciences/exact sciences/humanities, professional deontology and identifying plagiarism.  C2 1 Interpreting the relation between an oral or written message and the context it belongs to, identifying argumentative and construction techniques of the scientific message in the foreign language, especially within the academic and the professional communication contexts.  C2 2 Making use of basic knowledge to explain and interpret the various written communication methods in the field of social sciences/exact sciences/humanities (textbooks, specialized literature, scientific communications, research reports, forewords and introductions to specialized literature books, reviews of specialized literature books – written and electronic support), of the conventions writing these texts imply, as well as identifying plagiarism.  C3 1 The transfer of acquired concepts/principles/methods in guided activities for written text reception (critical reading) and for production (writing) focusing on the stages of the writing process (planning, draft writing, reviewing and producing a final draft), presenting and developing text related ideas as well as textual structure (global and local), developing strategies to expand specialized vocabulary, efficient verbal communication (style of communication), building argumentation to the standards specific for the foreign language studied in the academic environment, making use of techniques to avoid plagiarism (using quotes, summarizing, paraphrasing).  C4 1 Organizing debates, carrying out individual and group projects on topics from within the field of study.  C4 2 Critical reception and production of verbal or written messages, specific to scientific communication at university level (project presentations, reports, reviews, communications, dissertations etc.) in the foreign language. Using information sources with discernment and scientific probity.  C4 3 Using the standard criteria acknowledged by the academic/professional community, focusing on the ones practiced by the international scientific publications within the area of social sciences/exact sciences/humanities, with the purpose of evaluating the quality of the academic productions (oral and written) in the foreign language.  C5 Elaborating written papers and original, oral presentations in the foreign language, with the purpose of applying the drafting principles and techniques which have been universally acknowledged within the academic environment, focusing on the main genres from within the specific field of study: essays (descriptive, comparative, argumentative etc.), research reports, scientific papers, book reviews/presentations, annotated bibliographies, conference presentations etc. This type of productions will be elaborated on the basis of the students’ current needs from within their field of study. |
| Transversal competences | CT1 Completing individual tasks based on the writing models and with assistance from the teacher, materialized in the form of an individual portfolio. Applying the academic learning principles in the foreign language, fully governed by the principles of professional ethics.  CT 2 Taking part in carrying out projects, as part of a pair or a team, focusing on becoming familiar with team roles in the academic working environment; the projects can take the form of presentations (conference presentations) on a topic specific to the field of study.  CT3 Acknowledging the need for continuous development, focusing on consolidating and developing the basic knowledge related to the management of the individual learning process, regarding interindividual differences, specific to gender and culture, in processing information. The efficient use of certain intellectual operating tools and of learning resources/techniques/strategies: speed reading, reading sheets, taking notes, documentation, cognitive organizers.  CT4 Acknowledging the need for continuous development focusing on using ICT tools to assist with personal and professional development management, by joining social media and professional networks, that support the development of the communication skills, specific for the foreign language. |

# 7. Course objectives (derived from the specific competences acquired)

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| 7.1 General objective of the course | * The students will be able to use the English language competently, at a B2 level, in their academic activity and in their future professional activity. |
| 7.2 Specific objectives | * 1. Knowing and understanding thoroughly the contexts and roles, as well as the concepts, methods, the language/discourse specific to the different professional communication contexts in the academic environment in English focusing on rhetoric, written and oral communication, the stages of the writing process and the products of academic writing, as well as on professional deontology. * 2. Using in-depth knowledge to explain and interpret the various types of written communication (types of scientific texts) and oral communication (scientific communications) as well as the conventions that govern the production of scientific texts in English in the context of BA studies and the extended professional community (both national and international). * 3. Transferring learning concepts/principles/methods in written text reception and in production, focusing on the stages of the writing process, organizing and developing ideas, text structure and the oral and written communication strategies specific to English specialized for the scientific discourse. * 4. Using the standard criteria acknowledged by the academic/professional community in order to assess the quality of academic productions both oral and written in English. * 5. Elaborating written papers and original, oral presentations applying the principles and techniques which have been universally acknowledged within the academic environment, focusing on the main genres from within the specific field of study. * 6. Completing the individual tasks independently/autonomously. * 7. Taking part in carrying out projects, as part of a pair or a team, focusing on becoming familiar with team roles in the academic working environment. * 8. Managing the individual learning process, identifying the learning needs, monitoring and reflecting on using the intellectual work tools efficiently together with the traditional learning resources/techniques/strategies and the ICT tools. |

# 8. Contents

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| **8.2 Seminars** | Teaching methods | Remarks |
| **Unit 1: Introduction to AI**   * **Content**: Overview of AI, history, and its significance. * **Skills Practiced**: Research and presentation skills to explore AI milestones. Listening and Writing. | Presentation; discussion. | Assessment of student language skills; score reports provide a CEFR band, showing each student’s overall level; allows student streaming and student progress tracking |
| **Unit 2: Foundations of Artificial Intelligence**   * **Content**: Basic concepts in AI, including algorithms and machine learning models. * **Skills Practiced**: Analytical skills through problem-solving exercises. Writing and Listening. | Interactive presentation; direct instruction; heuristic conversation; individual/pair/group work; brainstorming; debate; flipped learning, inquiry learning; cooperative learning |  |
| **Unit 3: Machine Learning Basics**   * **Content**: Introduction to machine learning, types of learning, and basic algorithms. * **Skills Practiced**: Programming in Python for machine learning applications. Speaking and listening. | Direct instruction  Heuristic conversation |  |
| **Unit 4: Deep Learning and Neural Networks**   * **Content**: Understanding neural networks, deep learning architectures. * **Skills Practiced**: Implementing simple neural network models. Speaking and reading. |  |  |
| **Unit 5: Natural Language Processing (NLP)**   * **Content**: Introduction to NLP, text processing, and language models. * **Skills Practiced**: Building basic NLP applications.   Reading and Writing. | Idem |  |
| **Unit 6: Robotics and Automation**   * **Content**: Robotics in AI, automation technologies, and their applications. * **Skills Practiced**: Designing and simulating simple robotic systems.   Listening and speaking. | Idem |  |
| **Unit 7: Computer Vision**   * **Content**: Basics of computer vision, image processing techniques. * **Skills Practiced**: Building image recognition applications.   Reading and writing. | Idem |  |
| **Unit 8: AI in Healthcare**   * **Content**: Applications of AI in diagnostics, treatment, and patient care. * **Skills Practiced**: Case studies analysis and ethical considerations.   Reading and speaking. | Idem |  |
| **Unit 9: AI Ethics and Society**   * **Content**: Ethical issues in AI, bias, privacy, and societal impact. * **Skills Practiced**: Debate and discussion on case studies.   Speaking. | Idem |  |
| **Unit 10: Data Management and Big Data**   * **Content**: Importance of data in AI, handling big data, data ethics. * **Skills Practiced**: Data analysis and visualization techniques.   Reading and writing. | Idem |  |
| **Unit 11: AI and Business**   * **Content**: Use of AI in various business domains, impact on decision-making. * **Skills Practiced**: Business case development and strategic thinking.   Speaking and debate. | Idem |  |
| **Unit 12: Reinforcement Learning**   * **Content**: Concepts of reinforcement learning, applications in AI. * **Skills Practiced**: Implementing simple reinforcement learning models.   Listening and speaking. | Idem |  |
| 13. Revision, questions, general feedback | Idem |  |
| 14. Final exam | Exercises |  |
| **Compulsory Bibliography**  English for ICT Students in Higher Education Studies, Patrick Fitzgerld, Marie McCullagh and Carol Tabor, ESAP, Garnet Edication, 2022  **Selective Biblipgraphy**  Francesca Avezzano Comes, Virginio Rivano, Augusta Sinapi, Giuseppe de Benedittis, *Log In. Technical English for Computer Science and Telecommunications*, Student’s Book, Editore Ulrico Hoepli, Milano, 2012;  Francesca Avezzano Comes, Virginio Rivano, Augusta Sinapi, Giuseppe de Benedittis, *Log In. Technical English for Computer Science and Telecommunications*, Teacher’s Book, Editore Ulrico Hoepli, Milano, 2012;  Ronald Carter, Michael McCarthy, Cambridge Grammar of English. *A Comprehensive Guide. Spoken and Written English. Grammar and Usage*, Cambridge University Press, 2006;  Martin Hewings, *Advanced Grammar in Use*, Second Edition, Cambridge University Press, 2005;  Michael Vince, *Macmillan English Grammar in Context*, Advanced, Macmillan, 2008;  John Swales, Christine Feak, *Academic Writing for Graduate Students, Essential Tasks and Skills*, Third edition, Michigan ELT, 2012;  [www.ted.com](http://www.ted.com) | | |

# 9. Validating course contents based on the expectations of epistemic communities, professional associations and of potential employers related to the field of study.

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| International and European language policies seek to address the growing needs of a labor and a scientifically internationalized research market, and as such, foreign languages for academic and specific purposes are represented throughout many university centers   * in the country (in vocational fields such as business, law, medicine, computer science, tourism, but also in the courses which make use of the scientific discourse in various fields – chemistry, physics, education sciences, social and communication sciences etc.). For reference, see the specific departments and the foreign language centers in Bucharest, Timişoara, Iaşi, Tîrgu-Mureş, Alba Iulia, Oradea etc. * abroad (particularly regarding the academic learning competences and socio-professional communication), where all universities have centres that specialize in practical areas of the specialized discourse, playing an essential role in creating an instructional and academic culture. For instance, universities such as: Harvard, Washington, North Carolina, Southampton, Darmouth, Essex, Leeds, Graz, Central European University, etc.   The content of the teaching activity can develop those skills and competences that are specific to academic learning and research activities, in the context of higher education internationalization. |

# 10. Assessment (examination)

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| Type of activity | 10.1 Assessment criteria | 10.2 Assessment methods | 10.3 Weight in the final grade |
| 10.4 Lecture |  |  |  |
| 10.5 Seminar | * Project presentation and active participation * Task timing and deadline compliance. * Ability to employ new specialised vocabulary. * clarity (of expression/ of the demonstration), consistency with the topic, appropriateness and relevance of arguments, and conciseness (oral and written). * ability to master specialised language skills and field-specific practices, appropriate discourse and register for academic and high-profile audiences | Final oral exam | 100 % |
| 10.6 Basic performance standard | | | |
| Students will be able to:  - use field-specific language tools and strategies to successfully comply with professional and academic communication contexts (Reading, Listening, Speaking and Writing Skills)  - manage information about the resolution of complex tasks in field-specific contexts  - to explore autonomous learning strategies for vocabulary development as well as for improving writing/speaking skills  - to deliver oral presentations (seminars, debates, workshops)  - to participate in individual and group activities that will facilitate professional and academic development | | | |
| Organizational details, exceptional situation management: | | | |

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| Date  12.04.2024 | Course tutor’s signature | Seminar / Practical course tutor’s signature  A close-up of a signature  Description automatically generated |
| Date of department endorsement  12.04.2024 | Head of department’s signature |  |
| Date of Dean’s endorsement | Signature of the vice-Dean in charge | Faculty stamp |