

COURSE GUIDE – EXTENDED FORM

Academic year 2026 – 2027

1. Program information

1.1 University	"Gheorghe Asachi" Technical University of Iasi
1.2 Faculty	"Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection
1.3 Department	Organic, Biochemical and Food Engineering
1.4 Field	Chemical Engineering
1.5 Study level	Master
1.6 Specialization	Chemical and Biochemical Process Technology - CBPT

2. Course information

2.1.1 Course name		Scientific English					
2.1.2 Course code		515.2	2.1.3. Course category Fundamental/Specialized/Complementary)				Complementary
2.2 Course instructor							
2.3 Course instructors for applied activities (S)							
Associate professor Mariana Mantu							
2.4 Year of study ²	1	2.5 Semester ³	1	2.6 Evaluation type ⁴	V	2.7 Course type ⁵	DOP

3. Amount of time estimated for course activities (hours / term)

3.1 Hours /week	3	3.2 course		3.3a sem.	2	3.3b laboratory		3.3c project	1	3.3.d. practice	0
3.4 Total hours from curriculum ⁶	42	3.5 course		3.6a sem.	2	3.6b laboratory		3.6c project	1		
					8				4		
Time spent for related activities ⁷											Hours
Study of recommended books, course support, scientific papers and course notes											2
Study in library and practical skills development											3
Preparation of seminars / laboratory works / project phases / home works / presentations											4
Evaluation ⁸											3
Other activities:											
3.7 Total hours of individual study ⁹		12									
3.8 Total hours per semestre ¹⁰		42									
3.9 Number of credits		2									

4. Prerequisites (optional)

4.1 curriculum ¹¹	-
4.2 learning outcomes	English for scientific purposes in approaching specialized texts (organic, biochemical and food engineering)

5. Requirements

5.1 Conditions for seminar delivery	Hall H4, (equipped with video projector, computer, blackboard, printed materials);
5.2	.

6. Overall objective of the course

Acquisition of communication skills according to the Common European Framework of Reference for Foreign Languages, development of written and oral communication skills in English in a technical university. Development of written and oral message reception skills in English, both in social, professional and technical contexts. The aim is to consolidate linguistic skills through the appropriate use of specialized vocabulary, correct grammatical structures and discursive strategies necessary for the efficient transmission of information for active collaboration with native and non-native speakers.

7. Learning outcomes

Knowledge	<p>The student / graduate:</p> <ul style="list-style-type: none"> - Understands and explains fundamental concepts and grammatical structures of the English language, adapted to the level of study; - Distinguishes and applies general and specialized vocabulary, relevant to the technical and scientific field; - Recognizes and uses conventions for writing academic and professional documents (reports, CVs, correspondence); - Identifies sources of linguistic information and lexical resources (dictionaries, databases, online corpora) and integrates them into the learning process; - Understands the mechanisms of receiving oral and written messages in English and the particularities of academic communication
Skills	<p>The student / graduate:</p> <ul style="list-style-type: none"> - Uses specific tools (printed and online dictionaries, specialized glossaries, linguistic databases) to verify and acquire general and specialized vocabulary; - Develops stylistically and grammatically appropriate texts, appropriate to the academic and professional context; - Operates with specialized vocabulary and linguistic structures in the writing and interpretation of technical documents; - Uses English correctly in oral and written communication, adapted to various situations (academic, professional, intercultural); - Writes technical texts, reports, summaries and academic presentations; - Actively participates in discussions, debates and group projects, demonstrating collaboration capabilities in intercultural contexts;
Responsibility and autonomy	<p>The student / graduate:</p> <ul style="list-style-type: none"> - Makes clear and structured oral presentations on general and specialized topics; - Interprets and synthesizes information; - Demonstrates responsibility in applying the language skills acquired in academic and professional contexts; - Assumes autonomy in learning and continuously improving the English language; - Demonstrates the ability to organize and manage individual writing and presentation tasks in English; - Collaborates effectively in teams, assuming various roles and responsibilities in joint projects; - Demonstrates initiative and adaptability in intercultural communication situations; - Integrates linguistic and cultural resources responsibly in the learning process and in professional development; - Demonstrates autonomy and critical thinking in receiving and interpreting messages in English.

8. Teaching methods

During teaching activity, specific textbooks for specialized languages in English and Power Point presentations will be used that will be made available to students. Presentations will contain images and syntheses, so that the information should be easily understood and assimilated. Teaching methods are also based on communicative learning models through discovery, facilitated by direct and indirect exploration of reality, but also on action-based methods, such as exercise, practical written and oral activities

9. Course content

	Teaching methods	Time allocation
9.2b Seminar and applied projects	Frontal, individual and group activity;	Time allocation

Specialized language in the field of chemistry; Applied texts in organic, biochemical and food engineering; Characteristics of Academic and Scientific Style in English; Formal/Informal Language Style; Preparation for a Scientific/Academic Presentation in English Linking words, passive voice, formal vocabulary, irregular plurals, word formation Preparing for a job interview in English; Final evaluation	worksheets, use of (semi)authentic document (printed, video or audio), situation and dialogue simulation, reading Working methods ¹⁷	4 hours /topic 1 hour per week/ project presentation
Seminar bibliography: Mark Ibbotson, <i>Cambridge English for Engineering</i> , Cambridge University Press, 2008 <i>English for Chemists</i> , http://www.upjs.sk/public/media/3499/English-for-Chemists.pdf , 2009 Raymond Murphy, <i>English Grammar in Use</i> , Cambridge University Press, 2003 Mark Nettle, Diana Hopkins, <i>Developing Grammar in Context</i> , Cambridge University Press, 2003		

10. Evaluation

Activity type	10.1 Evaluation criteria	10.2 Evaluation method	10.3 Percentage of the final grade (recommended to be proportional to the number of hours allocated to each type of activity)
10.5b Seminar	<i>Capacity of translating texts in Scientific English; Use of terms in the field in organic, biochemical and food engineering.</i>		50%
	<i>Assessment tests ; Project presentation</i>		50%
10.6 Conditions for passing			
The final evaluation result for a course is determined by considering the scores and weights assigned to each activity within the course. Whole-number grades from 10 to 1 will be awarded, with a grade of 5 certifying the achievement of the minimal learning outcomes required for the course and the awarding of the corresponding study credits.			

Date: 3.09.2025

Course instructors for applied activities: Associate Professor Mariana Mantu

Date of approval by the department: 5.09.2025

Head of Department
Associate professor Corina Cernatescu

Date of approval by the Faculty Council: 8.09.2025

Dean,

Professor Teodor Malutan

¹ Bachelor's / Master's degree.

² For Bachelor's: 1-4; for Master's: 1-2.

³ For Bachelor's: 1-8; for Master's: 1-4.

⁴ Exam (E), assessment (A) – according to the curriculum.

⁵ DOB – mandatory course, DOP – optional course, DFA – elective course;

⁶ Duration equals 14 weeks multiplied by the number of hours listed at point 3.1 (similarly for points 3.5 and 3.6abc).

⁷ The lines below refer to individual study; total is completed at point 3.7.

⁸ Between 2 and 6 teaching hours, not included in individual study..

⁹ Total number of individual study hours (sum of values from previous lines).

¹⁰ Total of direct teaching hours (3.4) plus individual study hours (3.7); must equal the number of credits (3.9) multiplied by 27 hours per credit.

¹¹ Prerequisite courses that must be passed previously or their equivalents are indicated.

¹² Teaching resources: blackboard, video projector, flipchart, specific teaching materials, etc.

¹³ Technical equipment: computers, software packages, experimental stands, etc

¹⁴ Learning outcomes presented as knowledge, skills, responsibility, and autonomy specific to the course, aligned with level 7 of the National Qualifications Framework (NQF) and adapted to the type of university program. For research master's programs, these include competences necessary for conducting independent scientific research (<https://www.aracis.ro/wp-content/uploads/2025/07/Standarde-specifice-masterat.pdf>).

¹⁵ Titles of chapters and paragraphs.

¹⁶ Teaching methods: discussions, debates, presentations and/or paper analyses, exercises and problem solving.

¹⁷ Practical demonstrations, exercises, experiments.

¹⁸ Case studies, demonstrations, exercises, error analysis, etc.