



UNIVERSITATEA BABEȘ-BOLYAI
BABEȘ-BOLYAI TUDOMÁNYEGYETEM
BABEȘ-BOLYAI UNIVERSITÄT
BABEȘ-BOLYAI UNIVERSITY
TRADITIO ET EXCELLENTIA

Tradiție și Excelență prin
Cultură - Știință - Inovație din 1581



Facultatea de Chimie și Inginerie Chimică

Str. Arany János nr. 11
Cluj-Napoca, cod poștal 400028
Tel.: 0264-59.38.33
Fax: 0264-59.08.18

secretariat.chem@ubbcluj.ro
www.chem.ubbcluj.ro

SYLLABUS

Development activities - applications I

University year 2025-2026

1. Information regarding the programme

1.1. Higher education institution	Babes-Bolyai University
1.2. Faculty	Chemistry and Chemical Engineering
1.3. Department	Chemistry
1.4. Field of study	Interdisciplinary Chemistry/Chemical Engineering
1.5. Study cycle	Master
1.6. Study programme/Qualification	Food processing and control/Master degree (MA)
1.7. Form of education	Full-time education

2. Information regarding the discipline

2.1. Name of the discipline		Developments activities-applications I					Discipline code	CME8117
2.2. Course coordinator					-			
2.3. Seminar coordinator					Scientific advisor of the dissertation paper			
2.4. Year of study	I	2.5. Semester	1	2.6. Type of evaluation		V	2.7. Discipline regime	COMPULSORY

3. Total estimated time (hours/semester of didactic activities)

3.1. Hours per week	6	of which: 3.2 course	-	3.3 seminar/laboratory	6
3.4. Total hours in the curriculum	84	of which: 3.5 course	-	3.6 seminar/laborator	84
Time allotment for individual study (ID) and self-study activities (SA)					41 hours
Learning using manual, course support, bibliography, course notes (SA)					-
Additional documentation (in libraries, on electronic platforms, field documentation)					31
Preparation for seminars/labs, homework, papers, portfolios and essays					7
Tutorship					-
Evaluations					3
Other activities:					-
3.7. Total individual study hours	41				
3.8. Total hours per semester	125				
3.9. Number of ECTS credits	5				

4. Prerequisites (if necessary)

4.1. curriculum	Not applicable
4.2. competencies	Not applicable

5. Conditions (if necessary)

5.1. for the course	Not applicable
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5.2. for the seminar /lab activities	<ul style="list-style-type: none"> The students will attend the program of preparation of the dissertation paper established by the scientific advisor of the dissertation The students will prepare the documentation using the existing sources both in the specialized libraries and international electronic databases, and in those provided by the scientific advisor of the dissertation. The papers will be delivered to the scientific advisor of the dissertation
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6. Specific competencies acquired ¹

Professional/essential competencies	<ul style="list-style-type: none"> Documentation by accessing scientific articles from libraries and databases Applying the thorough knowledge and the specific research methods in the food processing and control
Transversal competencies	<ul style="list-style-type: none"> Executing in due time the imposed professional duties, by respecting the ethical rules. Self-assessment of the professional efficiency and establishing the needs of continuous formation, permanent information and documentation in the field of activity and related areas, in correlation with the needs of the labour market. Ability to conceive and prepare a scientific paper. Ability to defend a scientific presentation in a foreign language.

7. Objectives of the discipline (outcome of the acquired competencies)

7.1 General objective of the discipline	<ul style="list-style-type: none"> The students' acquaintance with the specific methodology of scientific documentation in the food processing and control
7.2 Specific objective of the discipline	<ul style="list-style-type: none"> The acquisition of the knowledge regarding the organization of the data accumulated through the study of the scientific literature related to the chosen field of research (food processing and control) Developing, practicing and validating the skills necessary for the profession, in order to facilitate employment on the labor market.

8. Content

8.1 Course	Teaching methods	Remarks
-	-	-
8.2 Seminar / laboratory	Teaching methods	Remarks

¹ One can choose either competences or learning outcomes, or both. If only one option is chosen, the row related to the other option will be deleted, and the kept one will be numbered 6.



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8. 1. 1. Initiation for the purpose of documentation in specialized libraries (printed format).	Explanation; Conversation; Description; Conceptualization	12
8. 1.2. Initiation, accessing of electronic international documentation sources (Science Direct, Scopus, SpringerLink, Web of Science, Wiley Journals, Proquest Journals, etc.).	Explanation; Conversation; Description; Conceptualization	12
8. 1.3. Achievement of documentation in the field of the master program in specialized (selected) libraries	Explanation; Conversation; Description; Conceptualization	12
8.1.4. Realization of the documentation in the area of the master program by accessing international (selected) electronic databases.	Explanation; Conversation; Description; Conceptualization	12
8. 1. 5. Systematization of the information accessed in the literature.	Explanation; Conversation; Description; Conceptualization	12
8. 1. 6. Presentation of the papers with literature data	Explanation; Conversation; Description; Conceptualization	12
8. 1. 7. Presentation of the portfolio of the dissertation subjects and selection of the subject with the scientific advisor.	Explanation; Conversation; Description; Conceptualization	12
Bibliography		
1. Electronic databases (Science Direct, Scopus, SpringerLink, Web of Science, Wiley Journals, Proquest Journals, etc.)		
2. The bibliographical sources indicated by the scientific advisor of the dissertation.		

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the program

<ul style="list-style-type: none"> By acquiring the theoretical and applied skills included in the content of this discipline, the students are acquiring consistent knowledge, corresponding to the competences specified in the Diploma Supplement and the potential jobs from ANC.
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10. Evaluation

Activity type	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Percentage of final grade
10.4 Course	-		
	-		
10.5 Seminar/laboratory	The quality of the presented papers	Elaboration and presentation of the papers based on literature data	100%
10.6 Minimum standard of performance			
<ul style="list-style-type: none"> The mark 5 (five) for the assessment of each presented paper 			



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11. Labels ODD (Sustainable Development Goals)²



Date:
01.04.2025

Signature of course coordinator

Signature of seminar coordinator

Date of approval:

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Signature of the head of department

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² Keep only the labels that, according to the [Procedure for applying ODD labels in the academic process](#), suit the discipline and delete the others, including the general one for *Sustainable Development* – if not applicable. If no label describes the discipline, delete them all and write „Not applicable.”.