CONTENS

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ BED/25	**Name:** Biodromal Education

Types, range and methods of educational activities:
Form of study: Lecture
Recommended extent of course (in hours):
Per week: 2 **For the study period:** 26
Methods of study: present

Number of credits: 7

Recommended semester/trimester of study: 3.

Level of study: III.

Prerequisites:

Conditions for passing the subject:
During the semester students must complete the following criteria:
writing a portfolio from the optional topics (50 points), which is related to the doctoral student's dissertation
The course ends with a final exam. Maximum: 50 points. A condition for the successful completion of a course is to obtain a minimum of 50% of the maximum points.
The grading scale: A - 90 -100%, B - 80 -89%, C - 70 -79%, D - 60 - 69%, E - 50 -59%

Results of education:
The aim of the course is to prepare students to understand, analyze and critically evaluate the non-formal and leisure education of children, youth and adults, orientation in the laws on teachers and professionals and in the laws on lifelong learning, also with significant international orientation.
Knowledge:
The student understands:
- the ways of describing teaching goals and requirements,
- the system of lifelong learning for teachers in Slovakia and the European Union,
- the types of subject systems and their main features,
- the models of public education and the layout of the curriculum,
- a system for amending the law on lifelong learning, also on the basis of international standards,
- significant features of formal and non-formal education,
- the relationship between motivational systems in adult education,
- models of educational programs and evaluation criteria,
- aspects of adult education evaluation.

Abilities:
The student is able to:
- analyze and interpret educational goals and requirements,
- determine, create a lifelong learning plan based on criteria
- critically analyze, define, name, create educational programs.

Point of view:
The listener:
- examine documents such as the state education program, the institutional education program,

- has an open mind-attitude to the laws, can explain and interpret them correctly,
- able to professionally develop, constantly innovate, critically review and evaluate new educational programs,
- feels responsible for their own professional development.

Autonomy:

The listener:

- has enough independence for the analysis of institutional education programs,
- can sufficiently analyze the types of education, can analyze the laws regarding the content of the subject,
- feels a responsibility to its students during their further education and professional development.

Brief syllabus:

1. Types of lifelong learning, Amendments to the law on lifelong learning,
2. Education policy, Adult education system in Slovakia and the European Union,
3. Professional development of teachers and professionals, Accreditation of educational programs,
4. The importance of age in motivation and education. The role of society in adult education
5. Law on teachers and professional employees
6. Opportunities for formal, non-formal and informal education
7. Qualification training, requalification training, and other forms of lifelong learning
8. Public education models, arrangement of educational content
9. Innovative options/possibilities of the curriculum in terms of content regulation of education
10. Law on education and their comparison with the purposes of EU laws
11. Ethnic education in Slovakia
12. The place of ethnic education and national identity in the system of laws in Slovakia

Literature:

AMBRUS ATTILA JÓZSEFNÉ, K. 1996. A sokoldalú ember. Budapest: Calibra. ISBN 9636861463

BENEŠ, M. 2009. Andragogika. Praha: Grada Publishin a.s. ISBN 978-80-247-2580-2

CEGLÉDI, T., KOZMA, T. (szerk.) 2010. Régió és oktatás. A Partium esete. Régió és oktatás VII. k. CHERD 2010. P. 161-171. Dostupné: http://cherd.unideb.hu/dok/kiadvany/Regio_es_oktatas_VII_cimlapokkal_nyomdakesz.pdf

CSEHIOVÁ, Agáta. WITH MUSIC EDUCATION AGAINST UNIVERSITY DROPOUT? ON THE CONNECTION BETWEEN EXPERIENTIAL GROUP MUSIC SESSIONS AND THE UNIVERSITY DROPOUT PROCESS. In: Opus et Educatio. Budapest. 2021/1. ISSN 2064-9908

FALUS, I. 2003. Didaktika. Elméleti alapok a tanítás tanulásához. Budapest: Nemzeti Tankönyvkiadó. ISBN 963 19 5296 7

HORVÁTHOVÁ, K.- SZŐKÖL, I. 2013. Kontrola a hodnotenie žiackych výkonov v národnostných školách na Slovensku. Monographiae Comaromienses 9., Komárno: Univerzita J. Selyeho. ISBN 978-80-8122-083-8

JÓZSA, Krisztián, Noémi KIS a Karen Caplovitz BARRETT. Mastery motivation, parenting, and school achievement among Hungarian adolescents. DOI 10.1007/s10212-018-0395-8 European Journal of Psychology of Education : A Journal of Education and Development. Vol. 34, no. 2 (2019), p. 317-339. ISSN 0256-2928. CCC, WoS, SCOPUS. Q WoS=Q3

KANCZNÉ NAGY, Katalin – CSEHIOVÁ, Agáta. Pedagógus hallgatók körében végzett "élménykeresé foka" vizsgálat. In: Fejlődés és partnerség a felsőoktatásban határok nélkül = Development and Partnership in HE without Borders - Proceedings of the 1st Conference on VET & Education, Today and Tomorrow : Az I. Szakképzés és oktatás: Ma-Holnap Konferencia tanulmánykötete: Az I. Szakképzés és oktatás: Ma-Holnap Konferencia tanulmánykötete. Tóth Péter, Benedek András, Mike Gabriella. = Development and Partnership in HE without Borders

- Proceedings of the 1st Conference on VET & Education, Today and Tomorrow Budapešť: Budapesti Műszaki és Gazdaságtudományi Egyetem, 2019, P. 255-263. ISBN 978-963-421-810-4
KERNEY, J., ZUBER-SKERRITT, O. 2011. Actioning Change and Lifelong Learning in Community Development. Aucland-New Zealand. ISSN 1839 1168. Dostupné na: https://core.ac.uk/download/pdf/143904006.pdf
LARSON, A. 2013. Lifelong Learning – From European policy to national legislation. https://www.researchgate.net/publication/266351001_Lifelong_Learning_-_From_European_policy_to_national_legislation
MAYER, J. 2000. Az iskolarendszerű felnőttoktatásról 2000-ben. Új Pedagógiai Szemle, 2000/11. P. 13-23. Elérhetőség: http://www.ofi.hu/tudastar/iskolarendszeru
PASSFIELD, R.: Strategic Project Planning: Change Management Resources Workbook. Scope Consultancy, Brisbane. 2004. Available free online at: http://www.tedi.uq.edu.au/ActionLearning/Resources/PlanningTools
RIDDELL, S., MARKOWITSCH, J., WEEDON, E. 2012. Formal adult education in the spotlight: Profiles, motivations and experiences of participants in 12 European countries. In book: Lifelong Learning in Europe: Equity and Efficiency in the Balance.
SZŐKÖL, I. 2019. A kisebbségi iskolák és a kisebbségi identitás helye a szlovák oktatási törvényekben. In: Horváth, K.- Tóth, P.- Németh, A. (eds.): Kisebbségi helyzet, identitás és műveltség. Univerzita J. Selyeho. P. 38-47. ISBN 978-80-8122-309-9
SZŐKÖL, I. 2016. Educational evaluation in contemporary schools. Szeged: Belvedere Meridionale. ISBN 978-615-5372-60-5
ŠVEC, Š. 1998. Metodológia vied o výchove: Kvantitatívno-scientické akvalitatívno-humanitné prístupy v edukačnom výskume. Bratislava: IRIS. ISBN 80-88778-15-8
TÖRÖK, B. 2006. Felnőttkori tanulás – célok és akadályok. In: Educatio. 2. sz. P. 333-347. Dostupné: www.hier.iif.hu/hu/letoltes.php?fid=tartalomsor/827
ZRINSZKY, L. (szerk.) 2009. A megújuló felnőttképzés. Tanulmányok a neveléstudományok köréből. Budapest: Gondolat. Dostupné: http://www.forrayrkatalin.hu/doski/felnott_hallgatok.pdf

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. Erika Kopp, PhD.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ CIT1/25	**Name:** Work cited in a CC, Web of Science, SCOPUS database
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 6	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: 1 - citation in a publication registered in citation indexes	
Results of education:	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/CIT2/25	**Name:** Work cited in lower type of publication
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: 2 - citation in a publication, including citation in a publication registered in databases other than citation indexes 3 - review and art criticism in a publication	
Results of education: Credits awarded for registered citation.	
Brief syllabus: not current	
Literature: is not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ DPO/25	**Name:** Dissertation with defense
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 40	
Recommended semester/trimester of study:	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The doctoral student can apply to defend the dissertation if he/she has obtained at least 150 credits. The defense of the dissertation must be submitted no later than three years after the beginning of the study (doctoral student in the full-time form of study). The dissertation is the final work and together with the defense of the dissertation they are considered as one subject. After defending the dissertation, the doctoral student of the study program Pedagogy will receive 30 credits. The goals and organization of the final thesis are regulated by internal regulations (Študijný poriadok Univerzity J. Selyeho/ Study Regulations of J. Selye University, Všeobecné zásady doktorandského štúdia Univerzity J. Selyeho/ General Principles of Doctoral Studies of J. Selye University, Smernica rektora o úprave, registrácii, sprístupnení a archivácii záverečných prác na Univerzite J. Selyeho/ Rector's Directive on Modification, Registration, Accessibility and Archiving of Final Theses at J. Selye University which are specified by the Dean's Directives). The dissertation has the character of an original scientific work. The dissertation (without appendices) should not exceed 170 pages. The condition for submitting an application for permission to defend a dissertation, in addition to the above requirements, is proof of publication output at least in category "A-" according to the standards for study programs in the field of study Teacher Training and Education Science.	
Results of education: The graduate of doctoral studies is qualified to perform scientific research and more complex science project and development activities in his/her field. He/she can focus on more general pedagogical topics and problems or on a specialized didactic area. He/she is also qualified to lead courses and educate teachers and pedagogical staff in the further education of pedagogical staff on the given field.	
Brief syllabus: 1. The presence of a two-thirds majority of all members of the dissertation defense committee is required at the dissertation defense. 2. The opponents participate in the dissertation defence. If one of them is unable to attend the defence for particularly serious reasons, the defence may be held provided that the absent opponent has given a favourable opinion and that all members present agree that the defence should be held in the absence of that opponent. In such a case, the opinion of the absent opponent shall be read	

out during the defence. The defence may not proceed if two opponents are absent or if there are two negative opinions.
3. In the case of one negative opinion, the dissertation defence may take place. In this case, the presence of the respective opponent is required at the defence.
4. If at least 2 negative opinions have been drawn up on the dissertation, the defence may be held only after the deficiencies mentioned in the opinions have been eliminated and the dissertation has been reassessed by the already approved opponents.
5. If a doctoral student cannot attend the defence on the appointed date for serious health reasons, he/she must apologise to the Dean in advance. In such a case, the dean, in agreement with the chairperson of the thesis committee, shall set an alternative date for the defence and notify the participants.
6. The defence of the dissertation shall be conducted by the chairperson of the defence committee; in an exceptional case, the chairperson may delegate the defence to another member of the defence committee who is also a member of the defence committee. Neither the opponent nor the supervisor shall conduct the defence, even if they are members of the thesis committee.
7. The dissertation defence is public. As a rule, its course is as follows:
(a) Opening,
b) introduction of the candidate,
c) presentation of the objectives, results and contribution of the dissertation,
d) statement of the result of the originality check,
e) presentation of the supervisor's report,
f) presentation of the referees' reports,
g) the doctoral student's opinion on the comments of the referees,
h) discussion.

Literature:
The literature on the researched issue of the dissertation according to the individual plan of the doctoral student approved by the supervisor. The current UJS Rector's Directive on final, rigorous, and habilitation theses, available on the university's website. THE DEAN'S DIRECTIVE CRITERIA FOR THE EVALUATION OF THE DISSERTATION AND ITS DEFENCE AT THE FACULTY OF EDUCATION J. SELYE UNIVERSITY

Language, knowledge of which is necessary to complete a course:
Hungarian or Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher:

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ DSP/25	**Name:** Dissertation exam - written work
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 10	
Recommended semester/trimester of study:	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student of doctoral study can apply for the dissertation examination if he/she has obtained at least 60 credits, of which 40 credits for studies and 20 credits for the scientific part. The Study Regulations of J. Selye University and the Dean's Directive No. 2/2017 clearly declare the requirements, criteria and describe the circumstances for the successful completion of the study and the implementation of the final work. Other conditions for granting consent to take the dissertation examination: submission of a printed study report with an overview of the credits obtained, completion of compulsory subjects. The doctoral student registers for the dissertation examination on the prescribed form no later than in the 5th semester of the full-time form of study. It takes place before a dissertation examination commission appointed by the dean. The written work for the dissertation exam has at least 1.5 author's sheets (30 pages) and contains in particular: the aim of the dissertation, the current state of knowledge (research) on the issue, analysis and justification of the methodological approach selected for solving the issue, outline of the theoretical foundations of the future solution, formulation of hypotheses and proposal of research strategy, the contribution of the work, overview of the studied literature on the given issue, elaboration of partial results from the first year of solving the problem, structure of the future dissertation (dissertation project). Written work requires 1. elaboration of the reviewer´s report of the dissertation thesis appointed by the dean of the faculty on the basis of the supervisor's proposal and after the opinion of the chairman of the examination committee. The opponent/reviewer of the dissertation thesis may be a university teacher in the position of professor, or the position of associate professor, or an expert with an academic degree of PhD. (or its older equivalent), which has no joint publications with the doctoral student, 2. statement of the supervisor. During the dissertation defense, the student should be able to respond and argue to the questions and recommendations of the reviewer/opponent and the supervisor. The dissertation exam consists of the dissertation thesis, its defense, and oral examination.	
Results of education: In the dissertation thesis the student of the doctoral study is able to demonstrate his/her skill in working with literature, mastering research methods, and interpreting partial and holistic results of the dissertation. S/he is able to formulate the theoretical basis and objectives of the dissertation. Can respond to questions and suggestions of the opponent and the supervisor, argue,	

and defend the dissertation thesis. The dissertation exam consists of the dissertation thesis, its defense, and oral examination, for which the student will receive 10 credits.

Brief syllabus:
Dissertation thesis for dissertation exam, its defense.

Literature:
The literature on the subjects according to the topic of the dissertation is provided in the information sheets of the subjects. The literature on the researched issue of the dissertation according to the individual plan of the doctoral student approved by the supervisor.

Language, knowledge of which is necessary to complete a course:
Hungarian or Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher:

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/BCH/DSU/25	**Name:** Dissertation exam - oral part

Types, range and methods of educational activities:
Form of study:
Recommended extent of course (in hours):
Per week: For the study period:
Methods of study: present

Number of credits: 10

Recommended semester/trimester of study:

Level of study: III.

Prerequisites:

Conditions for passing the subject:
The theoretical part of the dissertation exam is the oral exam according to the approved syllabi forms. The subject of the oral exam is the subject „Theoretical and methodological aspects of pedagogy".

Results of education:
During the oral exam, the student is able to answer questions formulated in the form of a broadly conceived problem by integrating knowledge from the completed subjects of the study part of the doctoral study and the topic of the dissertation. The demonstrated knowledge is assessed according to the results of the public vote of the examination committee. For the subject Theoretical and methodological aspects of pedagogy, the student will receive 10 credits.

Brief syllabus:

Literature:
The literature on the subjects according to the topic of the dissertation is provided in the information sheets of the subjects. The literature on the researched issue of the dissertation according to the individual plan of the doctoral student approved by the supervisor.

Language, knowledge of which is necessary to complete a course:
Hungarian or Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher:

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ IKT/25	**Name:** Modern Technologies in Science Education
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 8	
Recommended semester/trimester of study: 3.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 8 credits: 200–240 hours 26 hours of participation in contact hours (lectures, seminars); 60 hours for preparation of own teaching module using modern technologies, educational activities, and assignments given during lessons; 114–154 hours of self-study, literature processing, preparation of final presentation, and writing a reflection or report on the acquired knowledge, skills, and their relevance to the graduate's profile. Conditions for completion: The course is completed with an exam, which includes: active participation in classes (10%), continuous fulfilment of assigned tasks during the semester (10%), submission and presentation of the own teaching module (40%), demonstration of understanding of methodological principles of use of modern technologies in education of science subject biology and chemistry in an oral exam (40%). The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: By absolving the course, the student will acquire and deepen the following knowledge: - The student is familiar with the possibilities of using modern educational technologies in teaching of science subjects biology and chemistry. - The student understands the possibilities of individualization and differentiation of teaching by using modern technologies.	

- The student is familiar with current theoretical approaches to the use of ICT in education (constructivism, multimodal learning, and others).
- The student understands research methodologies focused on the integration of ICT into science education.
- The student is capable of creating innovative models of teaching and teaching strategies which incorporate modern technologies into teaching process.
Skills:
- The student is able to create their own digital educational tools based on the use of modern technologies, respecting didactic principles and considering the needs of students
- The student is prepared to actively participate in the development of curricula for science subjects, school educational programmes, and legislative documents related to educational policy, with a focus on the integration of ICT and modern technologies in teaching process.
- - The student is able to manage the collection of both quantitative and qualitative data for their own pedagogical research, as well as processing and evaluating the data using available statistical software tools.
Competencies:
- The follow the principles of scientific and academic ethics when working with scientific sources, data, and human participants.
- To critically evaluate existing technological tools in terms of their possibility to use in educational practice and in the teaching of science subjects.
- To develop the digital competencies of future biology and chemistry teachers and to participate to the lifelong learning of science teachers in the area of integrating modern technologies into biology and chemistry education.

Brief syllabus:
1. Introduction to the course, the time development of implementing new technologies in science education
2. Principles of ICT functioning, hardware and software tools, new technologies, artificial intelligence (AI)
3. Specifics of using ICT in science education, computer-aided education, educational software, e-learning and m-learning
4. Models of integrating modern technologies into science education – integrated laboratory systems, evaluation of results of chemical experiments
5. Models of integrating modern technologies into science education – computer aided molecular modeling
6. Interactive models in science education – real and virtual models in biology education
7. Digitaly based processing of biological objects – creation and use of 3D models in biology education
8. Inquiry-based learning and ICT
9. Modern technologies in chemistry teaching – visualization software (ChemSketch, Avogadro, HyperChem)
10. Possibilities of using artificial intelligence (AI) in science education
11. Web-based applications in science education
12. Creation of own teaching module using modern technologies
13. Summary, presentation of the individual teaching module project

Literature:
BRESTENSKÁ, B., BARTOŠOVIČ, L., ČIPKOVÁ, E., DEMKANIN, P., FAĎOS, I., FARÁRIK, P., HRUŠECKÁ, A., HRUŠECKÝ, R., HUTTA, M., KAROLČÍK, Š., KORDÍKOVÁ, B., LIKAVSKÝ, P., MIKOVÁ, K., NAGY, T., NAGYOVÁ, S. 2020. Inovatívne

učenie s podporou digitálnych technológií = Innovative Teaching with the Support of Digital Technologies. Bratislava: Univerzita Komenského v Bratislave. 278 s. ISBN 978-80-223-4927-7.
JUHÁSZ, Gy. 2016. A számítógépes molekulamodellezés és a kémiai kötés elméletének oktatása. Palatia Nyomda és Kiadó. 116 s. ISBN 978-963-7692-78-9.
JUHÁSZ, Gy. 2018. Web-based molekulové modelovanie. In: Inovácie v pregraduálnej príprave učiteľov s využitím webových aplikácií. Komárom: KOMPRESS Nyomdaipari kft. s. 81–96. ISBN 978-615-00-2597-1.
LÉVAI, D., PAPP-DANKA, A. 2015. Interaktív oktatásinformatika. Eger: Eszterházy Károly Főiskola. ISBN 978-615-5297-74-8. [online] Dostupné na internete: https://www.eltereader.hu/kiadvanyok/interaktiv-oktatasinformatika/
NAGY, M., DANCSA, D., PORÁČOVÁ, J., BERNÁTOVÁ, R. 2021. Valós és virtuális interaktív modellek a biológia oktatásában. Eruditio – Educatio, roč. 16, č. 4, s. 5–17. DOI: 10.36007/eruedu.2021.4.5-17.
RACSKO, R. 2017. Digitális átállás az oktatásban. Veszprém: Iskolakultúra. 328 s. (Iskolakultúra-könyvek ; 52). ISBN 978-963-693-787-4.
SADYKOV, T., ČTRNÁCTOVÁ, H. 2020. Interactive lessons with ICT in chemistry education. Eruditio-Educatio, Vol. 15, s. 95–110.
SZARKA, K., BRESTENSKÁ, B., FEHÉR, Z., JARUSKA, L., JUHÁSZ, Gy., TÓTH-BAKOS, A. 2018. Webové aplikácie v transdisciplinárnej príprave budúcich učiteľov = Web-Based Applications in Transdisciplinary Teacher Education. Journal of Technology and Information Education, roč. 10, č. 2, s. 31–40. DOI: 10.5507/jtie.2018.004.
TAKÁČ, O., VÉGH, L., CZAKÓOVÁ, K., DANCSA, D., NAGY, M. 2024. Analysis of selected parameters of partial 3D models obtained by gradual reduction of the number of photo frames. International Journal of Advanced Natural Sciences and Engineering Researches, roč. 8, č. 4, s. 89–95. https://as-proceeding.com/index.php/ijanser/article/view/1824

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. György Juhász, PhD., Dr. habil. PaedDr. Melinda Nagy, PhD.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ IMK/25	**Name:** Intercultural and Minority competencies

Types, range and methods of educational activities:
Form of study: Lecture
Recommended extent of course (in hours):
Per week: 1 **For the study period:** 13
Methods of study: present

Number of credits: 3

Recommended semester/trimester of study: 1., 2..

Level of study: III.

Prerequisites:

Conditions for passing the subject:
During the semester, PhD students must meet the following requirements.
A test must be written from the theoretical syllabus (50 points).
An essay task should be prepared in a minimum of 6 pages, in which a pedagogical situation, or a student behaviour, or a class problem should be analyzed and interpreted from a neuropedagogical point of view (50 points, divided as follows: interpretation of the situation / behaviour / problem (10 points), presentation of the literature review (10 points), analysis, evaluation (10 points), drawing conclusions, formulating proposals (10 points), elaboration (10 points).
Evaluation: A – 90-100%, B – 80 -89%, C – 70 -79%, D – 60 - 69%, E – 50 -59%

Results of education:
Knowledge:
- The student is able to explain and justify the changes in the concepts of intercultural, multicultural and transcultural education
- The student will be able to analyse current concepts of intercultural education
- The student will be able to specify and analyse the features of Roma identity (romipen),
- The student knows the origin, anthropology, history and special needs of Roma.

Abilities:
- The student will be able to design and implement a lesson project in order to develop the student's intercultural competencies.
- The student will be able to independently collect information for intercultural education
- The student will be able to identify common professional problems in this area
- The student will be able to analyse the features of Roma identity in the way of Roma life, in their interpersonal relationships and in their philosophy of life.

Attitudes:
- The student will create the appropriate attitudes towards the intercultural and multicultural phenomena
- The student will internalise a tolerant and patient approach to various forms and manifestations of human culture

Autonomy and responsibility:

- The student will be able to implement a targeted development of self-knowledge related to intercultural education
- The student will be able to independently plan activities that expand the knowledge about human cultures
- The student will be able to use this knowledge to advance the multicultural and emotional education of Roma and non-Roma students

Brief syllabus:

1. Intercultural competences and democratization of school.
2. Intercultural competences of teachers and students.
3. Multiculturalism, multicultural education, transcultural education.
4. Multicultural education as a planned part of the educational process.
5. Strategies for developing the student's intercultural competencies.
6. Origin of nationalities and ethnic groups living in Slovakia.
7. Anthropology and history of nationalities and ethnic groups living in Slovakia.
8. Special needs of nationalities and ethnic groups living in Slovakia.
9. Roma culture and its specifics in verbal and dramatic art.
10. Roma culture and its specifics in dance and music.
11. Roma culture and its specifics in fine arts.
12. Roma identity (romipen) in the characteristics and way of life of the Roma people, in their interpersonal relationships and in their philosophy of life.
13. Education for mutual tolerance.

Literature:

BALVÍN, J. 2008. Filozofie výchovy a metody výuky romského žáka. Praha : RADIX s.r.o. ISBN 978-80-86031-83-5

BALVIN, J., KWADRANS, L. 2009. Situation of Roma Minority in Czech, Poland and Slovakia. Wroclaw : Fundacja Integracji Spolecznej.

LISZKA, J. 2009. Interetnikus és interkulturális kapcsolatok Dél-Szlovákiában. Komárno : Selye János Egyetem. ISBN 978-80-89234-87-5

LÁZÁR, I., 39 interkulturális játék : Ötlettár tanároknak az interkulturális kompetencia és a csoportdinamika fejlesztéséhez. Budapest : Eötvös Loránd Tudományegyetem. (Bölcsészet- és Művészetpedagógiai Tananyagok, ISSN 2416-1780 ; 9.) ISBN 978-963-284-657-6

NAGY, M., STRÉDL, T., SZARKA, L. 2018. Többség, kisebbség és a tolerancia II. : Kapcsolatok és identitások a számok tükrében. Komárno : Univerzita J. Selyeho. ISBN 978-80-8122-280-1

RÓKA, J., HOCHEL, S. 2009. Interkulturális és nemzetközi kommunikáció a globalizálódó világban. Budapest : Budapesti Kommunikációs és Üzleti Főiskola. ISBN 978-963-7340-74-1

Language, knowledge of which is necessary to complete a course:

Hungarian or English

Notes:

Evaluation of subjects

Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. Melinda Nagy, PhD.,

Date of last update: 31.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ ISL1/25	**Name:** Individual Study of Scientific and Specialised Literature 1
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 1.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 3 credits = 75–90 hours 13 hours of seminar attendance (1 hour per week) 25 hours of preparing assignments, short texts, exercises, and presentation 37–52 hours of self-study, academic reading Course completion requirements: The course is completed with assessment, which includes: active participation in seminars (20%) completion of assignments during the semester (20%) submission and presentation of a short academic text (60%) The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge The student knows the methods of literature review and critical selection of academic literature relevant to the topic of their dissertation. Skills Can search, organize, and analyze academic information based on the supervisor’s instructions. Is able to present the reviewed academic literature in both written and oral form in a systematic and objective manner. Can independently plan the process of supervised reading and reflect on its progress in cooperation with the supervisor. Competences	

Demonstrates the ability for independent scientific thinking and a responsible approach to literature study.
Communicates effectively with the supervisor about the reviewed texts and actively receives feedback.
Is able to connect theoretical knowledge from the literature to their own research objectives.
Shows a high level of academic integrity, systematic work habits, and perseverance in long-term academic reading and processing.

Brief syllabus:
Study of literature selected according to the supervisor's recommendation.
Determination of a supervised reading plan by the doctoral student's supervisor
Selection of literature
Supervised reading, reporting on the knowledge gained to the supervisor
Research activity

Literature:
According to the focus of the research area.

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 2

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. György Juhász, PhD., Dr. habil. PaedDr. Melinda Nagy, PhD., Dr. habil. Sarolta Zsuzsanna Mészárosné Darvay, PhD., prof. Róbert Mészáros, DSc.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ ISL2/25	**Name:** Individual Study of Scientific and Specialised Literature 2
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 2.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 3 credits = 75–90 hours 13 hours of seminar attendance (1 hour per week) 25 hours of preparing assignments, short texts, exercises, and presentation 37–52 hours of self-study, academic reading Course completion requirements: The course is completed with assessment, which includes: active participation in seminars (20%) completion of assignments during the semester (20%) submission and presentation of a short academic text (60%) The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge The student knows the methods of literature review and critical selection of academic literature relevant to the topic of their dissertation. Skills Can search, organize, and analyze academic information based on the supervisor’s instructions. Is able to present the reviewed academic literature in both written and oral form in a systematic and objective manner. Can independently plan the process of supervised reading and reflect on its progress in cooperation with the supervisor. Competences	

Demonstrates the ability for independent scientific thinking and a responsible approach to literature study.
Communicates effectively with the supervisor about the reviewed texts and actively receives feedback.
Is able to connect theoretical knowledge from the literature to their own research objectives.
Shows a high level of academic integrity, systematic work habits, and perseverance in long-term academic reading and processing.

Brief syllabus:
Study of literature selected according to the supervisor's recommendation.
Determination of a supervised reading plan by the doctoral student's supervisor
Selection of literature
Supervised reading, reporting on the knowledge gained to the supervisor
Research activity

Literature:
According to the focus of the research area.

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. György Juhász, PhD., Dr. habil. PaedDr. Melinda Nagy, PhD., Dr. habil. Sarolta Zsuzsanna Mészárosné Darvay, PhD., prof. Róbert Mészáros, DSc.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ ISL3/25	**Name:** Individual Study of Scientific and Specialised Literature 3
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 3.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 3 credits = 75–90 hours 13 hours of seminar attendance (1 hour per week) 25 hours of preparing assignments, short texts, exercises, and presentation 37–52 hours of self-study, academic reading Course completion requirements: The course is completed with assessment, which includes: active participation in seminars (20%) completion of assignments during the semester (20%) submission and presentation of a short academic text (60%) The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge The student knows the methods of literature review and critical selection of academic literature relevant to the topic of their dissertation. Skills Can search, organize, and analyze academic information based on the supervisor’s instructions. Is able to present the reviewed academic literature in both written and oral form in a systematic and objective manner. Can independently plan the process of supervised reading and reflect on its progress in cooperation with the supervisor. Competences	

Demonstrates the ability for independent scientific thinking and a responsible approach to literature study.
Communicates effectively with the supervisor about the reviewed texts and actively receives feedback.
Is able to connect theoretical knowledge from the literature to their own research objectives.
Shows a high level of academic integrity, systematic work habits, and perseverance in long-term academic reading and processing.

Brief syllabus:
Study of literature selected according to the supervisor's recommendation.
Determination of a supervised reading plan by the doctoral student's supervisor
Selection of literature
Supervised reading, reporting on the knowledge gained to the supervisor
Research activity

Literature:
According to the focus of the research area.

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. György Juhász, PhD., Dr. habil. PaedDr. Melinda Nagy, PhD., Dr. habil. Sarolta Zsuzsanna Mészárosné Darvay, PhD., prof. Róbert Mészáros, DSc.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ IVA/25	**Name:** Innovation and Sustainability in Education
Types, range and methods of educational activities: **Form of study:** Lecture **Recommended extent of course (in hours):** **Per week:** 2 **For the study period:** 26 **Methods of study:** present	
Number of credits: 8	
Recommended semester/trimester of study: 1.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: General conditions for taking the course: • Active participation of the student in seminars, • active participation of the student in the tasks assigned and participation in the analysis and discussions during the semester, • Completion of semester tasks and assignments as instructed by the instructors, • Submission of an individual essay related to the course topics, including the collection, analysis, and critical evaluation of at least 10 academic sources. Total workload of the student: 1 credit = 30 hours • Final Essay (70%) – Assessment of theoretical and practical knowledge acquired during the course. • Class Participation and Engagement (30%) – Evaluation of students' active involvement, reflections, and independent thinking. • Reading diaries (20%) – Independent analysis of relevant literature, presented in a reading diary format. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge: By the end of the course, students will: • Understand key concepts of innovation and sustainability in education. • Be familiar with current global and national trends in sustainable education. • Recognize the relationship between educational policies, technological advancements, and sustainability. • Analyze models and case studies of innovative and sustainable educational practices. Skills:	

Students will be able to:
• Critically evaluate and synthesize academic literature on educational innovation and sustainability.
• Identify and analyze challenges and opportunities related to implementing sustainable educational innovations.
• Develop strategic approaches to integrating sustainability into educational policies and practices.
• Conduct independent research on innovative and sustainable educational models.
Attitudes:
Students should:
• Demonstrate openness to new ideas and emerging trends in education.
• Show commitment to sustainable and ethical educational practices.
• Engage in reflective and critical discourse on the role of innovation in shaping future educational landscapes.
• Advocate for evidence-based, socially responsible solutions in educational settings.

Brief syllabus:

• Introduction to Innovation and Sustainability in Education: Defining innovation and sustainability in educational contexts. Theories and models of educational change.
• Global Trends and Policies in Sustainable Education: International frameworks (e.g., UNESCO, OECD, EU policies). National strategies and initiatives.
• Technological Innovations and Their Role in Sustainable Education: Digital learning environments and emerging technologies. The impact of artificial intelligence and data-driven education.
• Sustainability in Curriculum and Pedagogy: Designing inclusive and adaptive learning environments. Green education and ecological approaches in teaching.
• Institutional and Organizational Aspects of Innovation: Leadership and change management in educational institutions. Scaling up innovative and sustainable practices.
• Equity, Inclusion, and Social Sustainability in Education: Addressing social inequalities through innovative education. Culturally responsive and community-based approaches.
• Measuring the Impact of Educational Innovations: Key performance indicators for sustainable education. Methods for assessing and evaluating innovation outcomes.
• Ethical Considerations and Challenges of Innovation in Education: Balancing progress and ethical responsibility. The role of educators in promoting sustainable practices.
• Financing and Policy Support for Sustainable Educational Innovation: Funding models and policy incentives. Public-private partnerships in educational sustainability.
• Case Studies of Successful Educational Innovations: International and national examples of sustainable educational projects. Lessons learned from best practices.
• Future Perspectives in Innovation and Sustainability: Emerging trends and predictions for education. The role of research in shaping the future of sustainable education.

Literature:

Alexander, R., Jacovidis, J., & Sturm, D. (2022). Exploring personal definitions of sustainability and their impact on perceptions of sustainability culture. In International Journal of Sustainability in Higher Education (Köt. 23, s. 3, o. 686–702). Emerald Group Holdings Ltd. https://doi.org/10.1108/IJSHE-11-2020-0426

Aricò, S. (2014). The contribution of the sciences, technology and innovation to sustainable development: The application of sustainability science from the perspective of UNESCO's experience. In Sustainability Science (V.9, s. 4, o. 453–462). Springer Japan. https://doi.org/10.1007/s11625-014-0256-6

Arruda Filho, N. de P. (2017). The agenda 2030 for responsible management education: An applied methodology. In International Journal of Management Education (V.15, s. 2, o. 183–191). Elsevier Ltd. https://doi.org/10.1016/j.ijme.2017.02.010
Blasco, N., Brusca, I., & Labrador, M. (2019). Assessing sustainability and its performance implications: An empirical analysis in Spanish public universities. In Sustainability (Switzerland) (V.11, s. 19). MDPI. https://doi.org/10.3390/su11195302
Burbules, N. C., Fan, G., & Repp, P. (2020). Five trends of education and technology in a sustainable future. Geography and Sustainability, 1(2), 93–97. https://doi.org/10.1016/j.geosus.2020.05.001
Da Silva, G. S., & De AzevedoAlmeida, L. (2019). Sustainability indicators for higher education institutions: A proposal based on the literature review. In Revista de Gestao Ambiental e Sustentabilidade (V.8, s. 1, o. 123–144). Universidade Nove de Julho-UNINOVE. https://doi.org/10.5585/geas.v8i1.13767
Gosselin, D., Parnell, R., Smith-Sebasto, N. J., & Vincent, S. (2013). Integration of sustainability in higher education: Three case studies of curricular implementation. In Journal of Environmental Studies and Sciences (V.3, s. 3, o. 316–330). Springer New York LLC. https://doi.org/10.1007/s13412-013-0130-3
Missimer, M., Robèrt, K.-H., & Broman, G. (2017). A strategic approach to social sustainability – Part 1: Exploring the social system. Journal of Cleaner Production, 140, 32–41. https://doi.org/10.1016/j.jclepro.2016.03.170
Tafese, M. B., & Kopp, E. (2025). Education for sustainable development: Analyzing research trends in higher education for sustainable development goals through bibliometric analysis. Discover Sustainability, 6(1), 51. https://doi.org/10.1007/s43621-024-00711-7
United Nations. (2021). THE 17 GOALS
Sustainable Development. https://sdgs.un.org/goals
Varga, A. (2020). A fenntarthatóságra nevelés elméleti alapjai és egész intézményes megközelítése. Eötvös Loránd University.

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 2

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. Erika Kopp, PhD.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ KCOV/25	**Name:** Conference – member of an organization board of a conference
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student will be a Member of a Board of a scientific conference. His/her name and affiliation will be published in the conference programme.	
Results of education: The student is a member of the conference organizing committee, i. his / her name and institutional affiliation are listed in the program of the event.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ KUMV/25	**Name:** Conference – active participant at an international or abroad scientific conference
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 6	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Conference - active participation in an international or foreign scientific conference.	
Results of education: Student will be a Member of a Board of a scientific conference. His/her name and affiliation will be published in the conference programme.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ LAB/25	**Name:** Laboratory and Field Research Methods in Biology and Chemistry
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 7	
Recommended semester/trimester of study: 1.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 7 credits: 175–210 hours 26 hours of participation in contact hours (lectures, seminars); 60 hours for preparation of a research project, educational activities, and assignments given during lessons; 89–124 hours of self-study, literature processing, preparation of a presentation, and writing a reflection or report on the acquired knowledge, skills, and their relevance to the graduate's profile. Conditions for completion: The course is completed with an exam, which includes: active participation in classes (10%), continuous fulfilment of assigned tasks during the semester (10%), submission and presentation of the research project (40%), demonstration of understanding of methodological principles in an oral exam (40%). The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge: • The student knows the basic laboratory and field research methods used in biology and chemistry. • Understands the principles of working with biological and chemical material in accordance with methodological, ethical and legal standards. • Understands the principles of analytical, spectrophotometric, chromatographic and molecular biological methods and their application in research.	

• Gains an overview of the possibilities for processing and interpreting data obtained from laboratory and field research.
Skills:
• Is able to independently design, carry out and document a simple laboratory or field research project in the field of biology or chemistry.
• Can correctly use laboratory equipment and techniques, handle chemical and biological samples, and record data.
• Is capable of selecting appropriate methods of data collection, measurement and processing for different research objectives.
• Applies safety and ethical principles in both laboratory and field research.
Competencies:
• Develops the ability to plan and critically evaluate empirical research in biology and chemistry.
• Strengthens independence, precision and responsibility in scientific work, with an emphasis on professional and ethical standards.
• Is able to collaborate in an interdisciplinary team and present research results to a professional audience.
• Can reflect on the use of research methods in both pedagogical and scientific contexts.

Brief syllabus:

1. Basic laboratory techniques in biology and their potential in teaching
2. Molecular biology and genetic methods
3. Ethology and behavioural research methods in natural and artificial conditions
4. Field research methods in biology
5. Biometric measurements
6. Collection, processing and archiving of biological samples – methodological, ethical and legal aspects
7. Basic laboratory operations in a chemistry lab and their potential in chemistry education – safety in the chemical laboratory
8. Data processing of laboratory experiments, statistical methods of data analysis, measurement accuracy and data validation
9. Advanced laboratory experiments in physical chemistry – methods of electron spectroscopy
10. Advanced laboratory experiments in physical chemistry – electrochemistry
11. Advanced laboratory experiments in analytical chemistry – chromatographic methods
12. Advanced laboratory experiments in organic chemistry – analysis of organic substances
13. Design of own laboratory research in the field of biology or chemistry education

Literature:

CSÁNYI, V. 2002. Etológia. 1. vyd. Budapest: Nemzeti Tankönyvkiadó. 755 s. ISBN 963-19-3230-3.
H.BATTHA, L. 1978. Növények és rovarok preparálása . NATURA. - 191. - ISBN 963 233 046 3.
HRABÁK, A. 2005. Orvosi kémia és biokémia feladatgyűjtemény – 1. vyd. – Budapest: Semmelweis Kiadó – 186 s. – ISBN 963 9214 80 9.
KREMER, B. P. 2021. Mikroskop: Preparace, barevní i digitální mikrofotografie krok za krokem: zcela jednoduše. 2. vyd. Praha: Aventinum. 189 s. ISBN 978-80-7151-281-3.
KYSEĽ, O., JUHÁSZ, G. 2001. Entrópia v energetike chemických reakcií. In: Pregraduální příprava a postgraduální vzdělávaní učitelů chemie. Ostrava: Ostravská univerzita v Ostravě, s. 144–146. ISBN 80-7042-817-1.
LAKATOŠ, B., ŠIMKOVIČ, M. 2012. Biochémia: Návody na laboratórne cvičenia – 1. vyd. – Bratislava: STU – 150 s. – ISBN 978-80-227-3793-7.

LŐW, P. 2014. Bevezetés a bioetikába. Budapest: ELTE. Magyar Bioetikai Szemle = Hungarian Review of Bioethics. 2015, roč. 1. [online]. Dostupné na: http://bioetikai-tarsasag.hu/docs/szemle/BIOETIKA-FUZET-boritoval-2015_1-.pdf
PORÁČOVÁ, J., MARIYCHUK, R., NAGY, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., KONEČNÁ, M., SEDLÁK, V., GRUĽOVÁ, D., ELIAŠOVÁ, A., GOGAĽOVÁ, Z., ŠVAJLENKA POŠIVÁKOVÁ, T., AVUKOVÁ, A., VAŠKOVÁ, H. 2020. Practical Exercises in General and Applied Biochemistry. 1. vyd. Užhorod: Lira. 109 s. ISBN 978-617-596-309-8.
PORÁČOVÁ, J., NAGY, M., BERNÁTOVÁ, R., BERNÁT, M., VAŠKO, L., VAŠKOVÁ, J., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., SEDLÁK, V., VADAŠOVÁ, B., KOTOSOVÁ, J., ROHÁČOVÁ, T., POŠIVÁKOVÁ, T., KONEČNÁ, M., FRIMMEROVÁ, A. 2014. Fyziológia živočíchov a človeka. 1. vyd. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 591 s. ISBN 978-80-555-1150-4.
PORÁČOVÁ, J., NAGY, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., SEDLÁK, V., VAŠKOVÁ, J., KOTOSOVÁ, J., POŠIVÁKOVÁ, T., KONEČNÁ, M., FRIMMEROVÁ, A. 2014. Cvičenia z fyziológie živočíchov a človeka. 1. vyd. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 312 s. ISBN 978-80-555-1149-8.
PORÁČOVÁ, J., NAGY, M., TAKABAYASHI, H., MYDLÁROVÁ BLAŠČÁKOVÁ, M., SEDLÁK, V., ZAHATŇANSKÁ, M., KONEČNÁ, M. 2023. General Genetics for the Natural Sciences. 1. vyd. Prešov: Prešovská univerzita v Prešove, Vydavateľstvo PU. 315 s. ISBN 978-80-555-3149-6. Zostavovatelia a editori: PORÁČOVÁ, J., SEDLÁK, V., KONEČNÁ, M.
PORÁČOVÁ, J., NAGY, M., VAŠKOVÁ, J., VAŠKO, L., MARIYCHUK, R., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., KONEČNÁ, M., GRUĽOVÁ, D., SEDLÁK, V., AVUKOVÁ, A., VAŠKOVÁ, H. 2021. General and applied biochemistry for natural sciences. Budapest: Budapesti Műszaki és Gazdaságtudományi Egyetem. 221 s. ISBN 978-963-421-847-0. ISBN (online) 978-963-421-848-7.
PORÁČOVÁ, J., NAGY, M., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., KONEČNÁ, M., GRUĽOVÁ, D., SEDLÁK, V., KIMÁKOVÁ, T. 2022. Practical Exercises of General Genetics. 1. vyd. Prešov: Prešovská univerzita v Prešove, Vydavateľstvo PU. 152 s. ISBN 978-80-555-3045-1.
PORÁČOVÁ, J., NAGY, M., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., TAKÁCSOVÁ-SOPKOVÁ, M., SEDLÁK, V. 2011. Biometria živočíchov a človeka. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 357 s. ISBN 978-80-555-0475-9.
PORÁČOVÁ, J., VAŠKOVÁ, J., NAGY, M., TKÁČIKOVÁ, Ľ., MYDLÁROVÁ BLAŠČÁKOVÁ, M., SEDLÁK, V., TAKABAYASHI, H., TANISHIMA, K., KITA, M., ZHANG, C., MATSUMOTO, Y., TAKABAYASHI, M., GOGAĽOVÁ, Z. 2015. Všeobecná genetika. 1. vyd. Prešov: Prešovská univerzita v Prešove. 397 s. ISBN 978-80-555-1523-6.
PORÁČOVÁ, J., VAŠKOVÁ, J., VAŠKO, L., NAGY, M. 2015. Základné biochemické procesy organizmov = Basic biochemical processes of organisms. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 343 s. ISBN 978-80-555-1514-4.
RODWELL, V. 2018. Harper´s Illustrated Biochemistry – 31. ed. – New York: McGraw-Hill, – 789 s. – ISBN 978-1-259-8379-7.
VARGA, J. 2015. Terepi gyűjtési technikák: Rovarok gyűjtése és preparálása. 1. vyd. Eger: Líceum Kiadó. 148 s. ISBN 978-615-5509-22-3.
OROSZ, GY. 1998. Szerves kémiai praktikum. Nemzeti Tankönyvkiadó, ISBN: 96 318 8408 2
OROSZ, Gy. et al. 2012. Szerves kémiai praktikum, ELTE Kiadó, Budapest
HORNYÁNSZKY, G. et al. 2011. Szerves kémiai praktikum. Typotex Kiadó. ISBN 978-963-279-482-2, dostupné na internete: https://oszkdk.oszk.hu/storage/00/01/42/16/dd/1/TAMOP-Hornyanszky-1.pdf

FELFÖLDI, K. : Szerves kémiai laboratóriumi alapgyakorlatok. dostupné na internete: http://www.staff.u-szeged.hu/~frank/education/Szerves_kemiai_lab_gyak_jegyzet.pdf
VARGA, I., KARDOS, A.; JUHÁSZ, GY.; MÉSZÁROS, R. 2022. Az egyensúlyi termodinamika alapjai tanár szakos hallgatóknak és tanároknak– 1. vyd. – Komárno (Slovensko) : Univerzita J. Selyeho – 115 s. – ISBN 978-80-8122-419-5
NEPRAŠ M., TITZ M. 1983. Základy teórie elektrónových spektier, SNTL, Praha
MIERTUŠ S. et al. 1991. Atómová a molekulová spektroskopia, ALFA Bratislava
SZILÁGYI A. et al. 2011. Fizikai kémia laboratóriumi gyakorlatok. Typotex Kiadó. ISBN: 978-963-279-474-7, dostupné na internete: http://docplayer.hu/110135650-Fizikai-kemia-laboratoriumi-gyakorlatok.html
ATKINS, P. W. 1991.: Fizikai kémia I-III. a tankönyvi feladatok megoldására. Tankönyvkiadó, ISBN 96 318 4350 5
MOROVSKÁ TUROŇOVÁ et al. 2020. Praktické cvičenia z fyzikálnej chémie. Ústav chemických vied, Prírodovedecká fakulta UPJŠ v Košiciach. ISBN: 978-80-8152-935-1 (e-publikácia), dostupné na internete: https://unibook.upjs.sk/img/cms/2020/pf/prakticke-cvicenia-z-fyzikalnej-chemie.pdf

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. Melinda Nagy, PhD., Dr. habil. PaedDr. György Juhász, PhD.,

Date of last update: 31.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ NAN/25	**Name:** Nanoscience in Modern Chemistry and Biology

Types, range and methods of educational activities:
Form of study: Lecture / Seminar
Recommended extent of course (in hours):
Per week: 1 / 1 **For the study period:** 13 / 13
Methods of study: present

Number of credits: 7

Recommended semester/trimester of study: 2.

Level of study: III.

Prerequisites:

Conditions for passing the subject:
Total student workload: 7 credits: 175–210 hours
26 hours of participation in contact hours (lectures, seminars);
70 hours Preparation of essays and oral presentation and assignments given during lessons;
79–114 hours of self-study, literature processing, preparation and writing reports on the acquired knowledge, skills, and their relevance to the graduate's profile and to the practical aspects of education.
Conditions for completion:
The course is completed with an exam, which includes:
active participation in classes (10%),
continuous fulfilment of assigned tasks during the semester (10%),
submission and presentation of the research project (40%),
demonstration of understanding of nanochemical and biological principles in an oral exam (40%).
The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject.
Overall evaluation of the success of the subject:
- A = 90-100% (90-100 points)
- B = 80-89% (80-89 points)
- C = 70-79% (70-79 points)
- D = 60-69% (60-69 points)
- E = 50-59% (50-59 points)
- FX = 0 – 49% (0 – 49 points)

Results of education:
Knowledge:
• The student has a solid background on advanced colloid and nanochemistry
• Understands the principles of kinetic stability of nanoformulations and utilizes them in the education of chemistry and physics
• Is familiar with the various types of equilibrium and nonequilibrium nanosystems
• Understands the principles of research ethics and academic integrity.
• Is aware of the possibilities of using academic databases, digital tools, and artificial intelligence in research.

Skills:
• The student is able to participate in nanotechnological research and use the gained knowledge in education as well as in demonstration experiments.
• Can identify and retrieve relevant academic sources from national and international databases.
• Is capable of processing and analysing quantitative and qualitative data using appropriate tools and software.
• Can interpret the novel nanoscience research results in the context of current theories and academic literature.
• Is able to use AI-based tools to support various stages of the research process (e.g., literature review, tool development, text analysis).
Competences:
• • The student is able to plan, conduct and defend research related to the integration of modern nanoscience results into education.
• Adheres to the principles of scientific and academic ethics when working with sources, data, and human participants.
• Can critically reflect on the strengths and limitations of their own research proposal and revise it based on feedback.
• Communicates research results effectively in both written and oral forms, including presentations to academic audiences.
• Demonstrates initiative, independence, and responsibility in scientific research and professional development.

Brief syllabus:
1. Introduction to nanoworld. Basic definitions, challenges. The interdisciplinary nature of the topic.
2. Equilibrium nanosystems. Nonequilibrium nanosystems.
3. Characterization of the size and charge of nanoparticles. Light scattering. Microscopic techniques. Electrophoretic mobility techniques.
4. Micro and macrorheology of nanosystems. Colloidal crystals.
5. Preparation of nanosystems. Top-down methods. Bottom up or wet synthetic chemical synthesis methods of nanosystems.
6. Hydrophobic nanoparticles formed via complexation of oppositely charged macromolecules and surfactants.
7. Effect of particle size and shape on material properties of solids Nanomagnetism, quantum nanodots, plasmonic noble metal nanoparticles. Carbon based nanoparticle systems.
8. Preparation, stabilization and surface modification of gold nanoparticles. Aqueous and nonaqueous dispersions of gold nanoparticles.
9. Two phase nanostructured liquid/liquid systems. Nanoemulsions, bicontinuous emulsions. Structured liquids. Reconfigurable liquids.
10. Specific applications of nanomaterials.-Energy storage, hydrogen storage. Nano and microelectronics.
11. Targeted drug delivery and drug release. Issue of the stability and toxicity of nano carriers
12. Biosensors and nanomedicine. Medical Imaging Techniques. Theranostic nanomaterials
13. Bioinspired nanotechnology. Nanostructures in Biomineralisation. Nanostructured Superhydrophobic Materials.

Literature:
KLINKOVA, A., THÉRIEN-AUBIN, H. Nanochemistry: Chemistry of Nanoparticle Formation and Interactions. Amsterdam: Elsevier, 2023. ISBN 978-0-443-21448-6, 0-443-21448-4.
NATELSON, D. Nanostructures and Nanotechnology. Cambridge: Cambridge University Press, 2015. ISBN 978-0-521-87700-8, 0-521-87700-8.

FRUK, L., KERBS, A. Bionanotechnology. Cambridge: Cambridge University Press, 2021. ISBN 978-1-108-45290-8, 978-1-108-69010-2. Dostupné na: https://www.book2look.com/book/9781108429054
KASZA, G., FÁBIÁN, Á., FECSKE, D., KARDOS, A., MÉSZÁROS, R., HORVÁTI, K., IVÁN, B. Hyperbranched polyglycerol grafted poly(N,N-diethylacrylamide) thermoresponsive copolymers as biocompatible, highly efficient encapsulation and sustained release systems of curcumin. European Polymer Journal, 2024, vol. 219, 113378, 14 s. DOI: 10.1016/j.eurpolymj.2024.113378
BAK, M., MIHÁLY, J., GYULAI, G., SZALAI, I., VARGA, I., MÉSZÁROS, R. Structuring liquids through solvent-assisted interfacial association of oppositely charged polyelectrolytes and amphiphiles. Journal of Colloid and Interface Science, 2023, vol. 650, s. 1097–1104. DOI: 10.1016/j.jcis.2023.07.040

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 2

A	B	C	D	E	FX
0.0	50.0	50.0	0.0	0.0	0.0

Teacher: prof. Róbert Mészáros, DSc.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OKAJ/25	**Name:** Academic Communication in English

Types, range and methods of educational activities:
Form of study: Seminar
Recommended extent of course (in hours):
Per week: 1 **For the study period:** 13
Methods of study: present

Number of credits: 4

Recommended semester/trimester of study: 3.

Level of study: III.

Prerequisites:

Conditions for passing the subject:
Total student workload: 100-120 hours
Out of this, seminars represent 13 hours, preparation for seminars and the test (self-study, reading of selected scientific articles and chapters) 30 - 49 hours, preparation of presentation on a selected topic 14 - 18 hours, preparation of seminar work 30 - 40 hours.
The subject ends with evaluation.
During the semester, students fulfil the following requirements:
active participation in seminars, a presentation on one of the topics (30 points), preparation of a written assignment (a research paper on a chosen and agreed on topic) (40 points), and writing a test at the end of the course (30 points).
The grading scale is as follows:
A - 100% - 90%, B - 89% - 80%, C - 79% - 70%, D - 69% - 60%, E - 59% - 50%, FX - 49% - 0%
A minimum of 90 points is required for assessment A, 80 points for assessment B, 70 points for assessment C, 60 points for assessment D and 50 points for assessment E. No credit will be awarded to a student who scores less than 50 points.

Results of education:
Knowledge:
• The student is familiar with the principles of English academic style and knows its rules of application in communication.
• The student understands and knows the correct academic vocabulary and grammar to be used in professional oral and written communication.
• The student knows the rules and standards of constructing academic texts in proper academic English.
Skills:
• The student employs the appropriate academic English style to be used in academic work when preparing a presentation or writing a paper.
• The student can formulate his/her ideas in good academic English to communicate his/her research effectively to academic audience.
• The student is capable of appropriately paraphrasing and summarising ideas from the sources used and discussing them in correct academic English.
Competencies:

• The student is proficient in oral and written academic communication in English and employs academic English style with correct grammar and vocabulary for professional interaction in an academic environment.

Brief syllabus:

The subject teaches useful study strategies and provides practical advice to guide the students' preparation for academic communication. It focuses on preparing students for participation in both oral and written academic communication. The subject puts strong emphasis on improving the students' speaking and writing skills and developing it to the level expected in academia. This is achieved by practicing the rules of English academic language, concentrating on both vocabulary and grammar in order to develop the students' knowledge of language in this the area. The students have the opportunity to practice giving a presentations, writing a literature review and essay, and participate in discussions involving the use of academic English.

List of main topics:

1. Specific and general academic English
2. Basic conventions of academic writing in English
3. Academic arguments and modes of argumentation
4. Grammatical construction of the sentence, types of clauses
5. Grammar, punctuation and conventions of academic writing
6. Formulating research questions, thesis statements and topic sentences
7. How to include the right amount of information in sentences
8. How to formulate ideas in sentences: using clauses and noun phrases
9. Text construction: phrases, sentences, paragraphs
10. Paragraphing and ordering the information
11. Linking clauses and sentences: anaphora and cataphora
12. Developing academic presentation competence
13. Essay development: introduction, body, conclusion

Literature:

Sahanaya, Wendy; Lindeck, Jeremy & Stewart, Richard (2002). ELTS Preparation and practice: Reading and Writing Academic Module. (1st ed.) Oxford: Oxford University Press, ISBN 0 19 554093 X.

Uhl Chamot, Anna & O´Malley, J. Michael (1994). The CALLA Handbook: Implementing the Cognitive Academic Language Learning Approach. (1st ed.) New York: Addison-Wesley. ISBN 0-201-53963-2.

Hyland, Ken (2006). English for Academic Purposes: An Advanced Resource Book. (1st ed.) London: Routledge. ISBN 0-415-35870-1.

Jordan, R. R. (2006). English for Academic Purposes. (1st ed.) Cambridge: Cambridge University Press. ISBN 0-521-55618-X.

Language, knowledge of which is necessary to complete a course:

English

Notes:

Evaluation of subjects

Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. Gábor Vilmos Győri, PhD.,

Date of last update: 31.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OPC1/25	**Name:** Professional work related to pedagogical activities 1.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The condition for completing the course is the performance of professional activities in the field of study Pedagogy of the relevant department and in agreement with the supervisor and the head of the department	
Results of education: The graduate of the course is able to perform professional activities at the department. Credits are awarded by the tutor for professional work related to pedagogical activities.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 2	

a	n
100.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OPC2/25	**Name:** Professional work related to pedagogical activities 2.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 2.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The condition for completing the course is the performance of professional activities in the field of study Pedagogy of the relevant department and in agreement with the supervisor and the head of the department.	
Results of education: The graduate of the course is able to perform professional activities at the department. Credits are awarded by the tutor for professional work related to pedagogical activities.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OPC3/25	**Name:** Professional work related to pedagogical activities 3.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 3.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The condition for completing the course is the performance of professional activities in the field of study Pedagogy of the relevant department and in agreement with the supervisor and the head of the department	
Results of education: The graduate of the course is able to perform professional activities at the department. Credits are awarded by the tutor for professional work related to pedagogical activities.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OPC4/25	**Name:** Professional work related to pedagogical activities 4.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 4.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The condition for completing the course is the performance of professional activities in the field of study Pedagogy of the relevant department and in agreement with the supervisor and the head of the department.	
Results of education: The graduate of the course is able to perform professional activities at the department. Credits are awarded by the tutor for professional work related to pedagogical activities.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OPC5/25	**Name:** Professional work related to pedagogical activities 5.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 5.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The condition for completing the course is the performance of professional activities in the field of study Pedagogy of the relevant department and in agreement with the supervisor and the head of the department.	
Results of education: The graduate of the course is able to perform professional activities at the department. Credits are awarded by the tutor for professional work related to pedagogical activities.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ OPC6/25	**Name:** Professional work related to pedagogical activities 6.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 6.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The condition for completing the course is the performance of professional activities in the field of study Pedagogy of the relevant department and in agreement with the supervisor and the head of the department.	
Results of education: The graduate of the course is able to perform professional activities at the department. Credits are awarded by the tutor for professional work related to pedagogical activities.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/OPON/25	**Name:** Opponet of a Scientific Student Conference thesis; membersip in a Scientific Student Conference commission
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Opponet of a Scientific Student Conference thesis; membersip in a Scientific Student Conference commission	
Results of education: Student will actively assist during Scientific Student Activity (evaluate, sit in a commission, etc.).	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PSRD/25	**Name:** Project – member of an national scientific project team
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 6	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Project - co-solver of a domestic scientific project.	
Results of education: Student will be a member of a home based scientific research team.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 1	

a	n
100.0	0.0

Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PSRZ/25	**Name:** Project – member of an abroad scientific project team
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 6	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Project - co-investigator of a foreign scientific project.	
Results of education: Student will be a member of an international scientific research team.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB1/25	**Name:** Publication 1.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 30	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student as an individual author of top publications V1 - scientific output of publishing activity as a whole : Scientific monograph (individual authorship) V1 - scientific output of publishing activity as a whole : Critical source edition (individual authorship) V1 - scientific output of publishing activity as a whole : Critical annotated translation (individual authorship) V3 - scientific output of publishing activity from journal : Article from an event (individual, peer-reviewed publication) V3 - scientific output of publishing activity from a journal : Article (in Scopus, WoS database) O3 - professional output of publishing activity from a journal : Article (individual, peer-reviewed publication) O3 - professional output of publishing activity from a journal : Article (in Scopus, WoS database) P1 - pedagogical output of publishing activity as a whole : Textbook for schools (individual authorship)	
Results of education: Credits awarded for registered publications.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB2/25	**Name:** Publication 2.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 25	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Co-authorship of publications V1 - scientific output of publication activity as a whole : Book (co-author or editor of scientific book) V1 - scientific output of publication activity as a whole : Proceedings (co-author or editor of scientific proceedings) V3 - scientific output of publication activity from a journal : Article from an event (co-author in a peer-reviewed journal) O3 - professional output of publication activity from a journal : Article (co-author, peer-reviewed journal) P1 - pedagogical output of publication activity as a whole : Textbook for schools (co-author) P1 - pedagogical output of publication activity as a whole : Scriptum (individual author) P1 - pedagogical output of publication activity as a whole : Textbook for schools (primary and secondary)	
Results of education: Credits awarded for registered publications.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB3/25	**Name:** Publication 3.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 20	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Individual authorship or co-authorship V2 - scholarly output of publication as part of an edited book or proceedings : Chapter O1 - scholarly output of publication as a whole : Author of book publication O1 - scholarly output of publication as a whole : Author of an overview work O1 - professional output of publishing activity as a whole : Author of an anthology (stand-alone) O1 - professional output of publishing activity as a whole : Editor of a catalogue of works of art O1 - professional output of publishing activity as a whole : Editor of a dictionary, encyclopaedia O1 - professional output of publishing activity as a whole : Editor of a dictionary, encyclopaedia : Editor of a dictionary, encyclopaedia, encyclopaedia : Editor of proceedings O2 - professional output of publishing activity as part of a book publication or proceedings : Chapter P1 - pedagogical output of publishing activity as a whole : Scriptum (co-author) P1 - pedagogical output of publishing activity as a whole : Teaching text (primary and secondary schools) P1 - pedagogical output of the publishing activity as a whole : Workbook (primary and secondary schools) P1 - pedagogical output of the publishing activity as a whole : Didactic manual (primary and secondary schools) P2 - pedagogical output of the publishing activity as part of a textbook or script : Chapter	
Results of education: Credits awarded for registered publications.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB4/25	**Name:** Publication 4.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 15	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Individual authorship or co-authorship V2 - scholarly output of a publication as part of an edited book or proceedings : Contribution V3 - scholarly output of a publication from a journal : Article, study (non-curated journal, journal outside the database) O2 - scholarly output of a publication as part of a book publication or proceedings : Contribution O3 - scholarly output of a publication from a journal : Article, study (non-curated journal, journal outside the database) U1 - artistic output of a publication as a whole : book publication (alone)	
Results of education: Credits awarded for registered publications.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB5/25	**Name:** Publication 5.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Individual authorship or co-authorship of scientific or scholarly works V1 - scientific output of publishing activity as a whole : Catalogue of works of art V2 - scientific output of publishing activity as part of an edited book or proceedings : Abstract from an event V2 - scientific output of a publication activity as part of an edited book or proceedings : Poster from an event V3 - scientific output of a publication activity from a journal : Poster from an event V3 - scientific output of a publication activity from a journal : Abstract (on its own, without study) O2 - scientific output of a publication activity as part of a book or proceedings : Abstract (on its own, without study) : Abstract from an O2 event - professional output of a publication activity as part of a book publication or proceedings : Author of a poster from the event O2 - professional output of the publication activity as part of a book publication or proceedings : Participant in an anthology O3 - professional output of the publication activity from a journal : Abstract from the event O3 - professional output of the publication activity from a journal : Poster from the event U1 - artistic output of the publication activity as a whole : anthology U1 - artistic output of the publication activity as a whole : catalogue of works of art U1 - artistic output of the publication activity as a whole : dramatic work U1 - artistic output of the publication activity as a whole : fiction U2 - artistic output of the publication activity as part of a book publication or collection : chapter	
Results of education: Credits awarded for registered publications.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB6/25	**Name:** Publication 6.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: O2 - professional output of publishing activity as part of a book publication or proceedings : Author of review O3 - professional output of a publication from a journal : Author of review	
Results of education: Student's review in scientific journals EDI. The publication has to be affiliated to the JSU and has to be registered in the system of the JSU Library.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PUB7/25	**Name:** Publication 7.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: U3 - artistic output of a publication from a journal : Article I1 - other output of a publication as a whole : publications that cannot be classified in category V, O, P, U or D I2 - other output of a publication as part of a publication or proceedings : parts that cannot be classified in category V, O, P, U or D I3 - other output of a publication from a journal : articles that cannot be classified in category V, O, P, U or D	
Results of education: Any other type of publication. The publication has to be affiliated to the JSU and has to be registered in the system of the JSU Library.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVC1/25	**Name:** Teaching Activity 1.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student would assist at his/her peer's teaching acivity.	
Results of education: The graduate of the course is able to lead a lesson.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 2	

a	n
100.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVC2/25	**Name:** Pedagogical Activity 2.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 2.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student would assist at his/her peer's teaching acivity.	
Results of education: The graduate of the course is able to lead a lesson.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVC3/25	**Name:** Pedagogical Activity 3.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 3.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student would assist at his/her peer's teaching acivity.	
Results of education: The graduate of the course is able to lead a lesson.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVC4/25	**Name:** Teaching Activity 4.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 4.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student would assist at his/her peer's teaching acivity.	
Results of education: The graduate of the course is able to lead a lesson.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVC5/25	**Name:** Teaching Activity 5.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 5.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student would assist at his/her peer's teaching acivity.	
Results of education: The graduate of the course is able to lead a lesson.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVC6/25	**Name:** Teaching Activity 6.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 6.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Student would assist at his/her peer's teaching acivity.	
Results of education: The graduate of the course is able to lead a lesson.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVRD/25	**Name:** Project – leader of a national scientific project
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 8	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Project - lead researcher of a domestic scientific project.	
Results of education: Student will be the leader of a home based international scientific research team.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ PVRZ/25	**Name:** Project – leader of an abroad scientific projec
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 10	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Project - lead researcher of a foreign scientific project.	
Results of education: Student will be the leader of an international scientific research team.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ REDA/25	**Name:** Editorial work – individual or in a team
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 1., 2.., 3., 4.., 5., 6.., 7., 8.., 9., 10..	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Editorial work individually or in a team.	
Results of education: The student actively participates in professional editorial work, performs editorial or compilation activities individually or in cooperation.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SUS/25	**Name:** Sustainability education

Types, range and methods of educational activities:
Form of study: Lecture / Seminar
Recommended extent of course (in hours):
Per week: 1 / 1 **For the study period:** 13 / 13
Methods of study: present

Number of credits: 7

Recommended semester/trimester of study: 1.

Level of study: III.

Prerequisites:

Conditions for passing the subject:
Total student workload: 7 credits: 175–210 hours
26 hours of participation in contact hours (lectures, seminars);
60 hours for preparation of educational activities and assignments given during lessons;
Independent student task: the student will conduct a SWOT analysis of the implementation of an institution-wide approach to sustainability education.
89–124 hours of self-study, literature processing, preparation of a presentation, and writing a reflection or report on the acquired knowledge, skills, and their relevance to the graduate's profile.
Conditions for completion:
The course is completed with an exam, which includes:
active participation in classes (10%),
continuous fulfilment of assigned tasks during the semester (10%),
presentation of the student's SWOT analysis (40%),
demonstration of understanding of methodological principles in an oral or wr exam (40%).
The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject.
Overall evaluation of the success of the subject:
- A = 90-100% (90-100 points)
- B = 80-89% (80-89 points)
- C = 70-79% (70-79 points)
- D = 60-69% (60-69 points)
- E = 50-59% (50-59 points)
- FX = 0 – 49% (0 – 49 points)

Results of education:
Knowledge
The student
- knows and understands the conceptual framework and documents of sustainability, the Sustainable Development Goals,
- knowledge of the ecological, social, economic, psychological and cultural aspects of sustainability,

- knowledge of the international and national educational policy context of sustainability education and its institutional approach,
- knowledge and understanding of active, participatory and experiential learning methods,
- knowledge of the whole institution approach to sustainability education, the principles of sustainable curriculum and lesson planning and resource development,
- awareness of the importance of social issues and equity, ethics, personal responsibility and responsible decision-making, altruism and active engagement in the classroom.

Skills

The student:
- be able to think systemically, creatively and collaboratively,
- the student is capable of working in a creative manner, able to apply modern scientific knowledge systems and methodological procedures, with an appropriate environmental approach and values, to implement age-appropriate development actions and activities in the field of sustainability,
- the ability to collect and analyse data, develop practical skills and experience in different theoretical aspects of sustainability,
- the ability to continuously develop and update methodological knowledge in the field,
- the ability to manage social and cultural diversity,
- the ability to identify, analyse and reflect on issues in the local environment and to address problems at interdisciplinary level.

Competences

The student:
- open to collaborations, participatory programmes, new theories and methods, and their application and integration in the field of sustainability,
- the ability to practice an environmentally friendly, value-conscious and sustainability-conscious behaviour based on knowledge and love,
- to develop a positive attitude in the whole institutional approach to sustainability education,
- the ability to recognise the personal need for further learning and to take responsibility for further learning and continuous learning.

Brief syllabus:

Sustainability education

1. Historical changes in the relationship between man and nature, the evolution of our contemporary perception of nature and the world.
2. Ecological, social and economic aspects of sustainability.
3. Pedagogical aspects of sustainability, psychology of sustainability.
4. Relationship of sustainability education with other pedagogical approaches.
5. The international and national educational policy context of sustainability.
6. Challenges and methodological solutions in the pedagogy of sustainability, active, participatory and experiential learning methods.
7. International and national good practices in the methodology of sustainability pedagogy.
8. The link between sustainability and culture.
9. International and national research trends in sustainability pedagogy.
10. Sustainability in the education. A whole institution approach to sustainability education.
11. Principles of sustainability-focused curriculum and lesson planning and resource development.
12. Social issues and equity, ethics, personal responsibility and responsible decision making, altruism and active engagement in the classroom.
13. Student assignment presentation and evaluation.

Literature:

ENDRŐDY O., SVRAKA B., LASSÚ Zs. 2020. Sokszínű pedagógia. Inkluzív és multikulturális szemléletmód a pedagógiai gyakorlatban. Eötvös Kiadó, Budapest
DARVAY, S., NEMCSÓK, J., FERENCZY, Á. 2016. Fenntartható fejlődés. Polgári szemle: Gazdasági és társadalmi folyóirat,12 (4-6). pp. 88-104. ISSN 1786-6553 https://polgariszemle.hu/images/content/pdf/psz_2016._4-6.szam_7.pdf
KOVÁTS-NÉMETS, M. 2007. Fenntarthatóság, pedagógia, kutatás. - 1. vyd. - Győr : NyugatMagyarországi Egyetem Apáczai Csere János Kar - 227 s. - ISBN 978-963-9364-85-1
NAGY, M. 2012. Humánökológia. Komárno: Univerzita J. Selyeho. 188 s. ISBN 978-80-8122-056-2
PORÁČOVÁ, J., NAGY, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., SEDLÁK, V., VAŠKOVÁ, J., BERNÁTOVÁ, R., VADAŠOVÁ, B., KIMÁKOVÁ, T., LUKÁČ, N., MASSANYI, P., ZAHATŇANSKÁ, M., KOLESÁROVÁ, A., ODLEROVÁ, E., POŠIVÁKOVÁ, T., KOTOSOVÁ, J., FRIMMEROVÁ, A. 2015. Ekofyziológia živočíchov a človeka. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 583 s. ISBN 978-80-555-1524-3.
UNESCO 2025. UNESCO sites as partners for Education for Sustainable Development An implementation guide. ISBN 978-92-3-100746-0 https://doi.org/10.54675/SAVQ1325
UNESCO 2017. Education for Sustainable Development Goals Learning Objectives. ISBN 978-92-3-100209-0 https://doi.org/10.54675/CGBA9153

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 2

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. Sarolta Zsuzsanna Mészárosné Darvay, PhD.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SVP1/25	**Name:** Study / research Stay 1.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 3.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The student participates in a domestic or foreign study trip or research trip.	
Results of education: The student is able to complete a long-term study stay, preferably at a foreign university / partner / research institution.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:
Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SVP2/25	**Name:** Study / research Stay 2.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 4.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The student participates in a domestic or foreign study trip or research trip.	
Results of education: The condition for completing the course is a long-term stay of the student, preferably at a foreign university / partner / research institution.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	

a	n
0.0	0.0

Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SVP3/25	**Name:** Study / research Stay 3.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 5.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The student participates in a domestic or foreign study trip or research trip.	
Results of education: The condition for completing the course is a long-term stay of the student, preferably at a foreign university / partner / research institution.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SVP4/25	**Name:** Study / research Stay 4.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 6.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The student participates in a domestic or foreign study trip or research trip.	
Results of education: The condition for completing the course is a long-term stay of the student, preferably at a foreign university / partner / research institution.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SVP5/25	**Name:** Study / research Stay 5.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 7.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The student participates in a domestic or foreign study trip or research trip.	
Results of education: The condition for completing the course is a long-term stay of the student, preferably at a foreign university / partner / research institution.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ SVP6/25	**Name:** Study / research Stay 6.
Types, range and methods of educational activities: **Form of study:** **Recommended extent of course (in hours):** **Per week: For the study period:** **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 8.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: The student participates in a domestic or foreign study trip or research trip.	
Results of education: The condition for completing the course is a long-term stay of the student, preferably at a foreign university / partner / research institution.	
Brief syllabus: not current	
Literature: not current	
Language, knowledge of which is necessary to complete a course:	
Notes:	
Evaluation of subjects Total number of evaluated students: 0	
a	n
0.0	0.0
Teacher:	
Date of last update: 30.03.2025	
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.	

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ TECH/25	**Name:** Technology for health

Types, range and methods of educational activities:
Form of study: Lecture / Seminar
Recommended extent of course (in hours):
Per week: 1 / 1 **For the study period:** 13 / 13
Methods of study: present

Number of credits: 7

Recommended semester/trimester of study: 2.

Level of study: III.

Prerequisites:

Conditions for passing the subject:
Total student workload: 7 credits: 175–210 hours
26 hours of participation in contact hours (lectures, seminars);
60 hours for preparation of a research project, educational activities, and assignments given during lessons;
89–124 hours of self-study, literature processing, preparation of a presentation, and writing a reflection or report on the acquired knowledge, skills.
Conditions for completion:
The course is completed with an exam, which includes:
active participation in classes (10%),
continuous fulfilment of assigned tasks during the semester (10%),
presentation of a topic of the student's choice (40%),
demonstration of understanding of methodological principles in an oral or wr exam (40%).
The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject.
Overall evaluation of the success of the subject:
- A = 90-100% (90-100 points)
- B = 80-89% (80-89 points)
- C = 70-79% (70-79 points)
- D = 60-69% (60-69 points)
- E = 50-59% (50-59 points)
- FX = 0 – 49% (0 – 49 points)

Results of education:
Knowledge
The student
- knows and understands the relationship between "planetary health - one health approach concept - human health",
- understand the new challenges of sustainability and the importance of individual and community responsibility for health,
- is familiar with the criteria of precision agriculture,
- knows the importance of technological innovation in human health care,

- knows and understands the legal, ethical and social significance of health in the 21st century
Skills
The student:
- be able to think systemically, creatively and collaboratively,
- be able to act in a health-promoting individual and community way, with an appropriate health and environmentally conscious approach and values, based on up-to-date scientific knowledge,
- has the ability to continuously develop and update methodological knowledge in the field,
- be able to understand the legal, ethical and social challenges of technological innovation.
Competence
The student:
- is committed to practising health-promoting behaviours,
- be able to develop critical thinking and attitudes towards the use of technological innovations,
- open to new theories and methods and their application and integration in the health sciences,
- has the ability to recognise personal need for further knowledge and to take responsibility for further knowledge and continuous learning.

Brief syllabus:

1. A “bolygó egészsége - egy egészség koncepció - emberi egészség“ kapcsolatrendszere
2. A fenntarthatóság környezeti, társadalmi, gazdasági rendszerének új kihívásai, az egészség egyéni és közösségi felelősségének felértékelődése, a társadalmi egyenlőtlenségek és az egészség összefüggései.
3.Precíziós mezőgazdaság a nagyüzemi növénytermesztésben.
4. Precíziós állattenyésztés.
5. Automatizáció és AI technológiák az intelligens üvegházakban.
6-7. Biotechnológiai tudományterületek, ill. technikák: molekuláris biotechnológia, a sejt- és szöveti biotechnológia, az anyagfeldolgozási biotechnológia, bioinformatika, nanobiotechnológia a humán- és állat-egészségügy, mezőgazdaság, ipar és környezetvédelem szolgálatában
8. Digitalizáció az egészségügyben (e-egészségügy), digitális egészségműveltség.
9. Technológiai fejlesztések az emberi élettartam hosszabbodás és életminőség javulás szolgálatában: nanotechnológia, biotechnológia, 3D-nyomtatás, robotika, mesterséges intelligencia.
10-11. Humán-egészségügyi ellátásban használatos technológiák: gyógyszerek, diagnosztikus, terápiás, rehabilitációs eljárások, megelőzési és egészség-fejlesztési tevékenységek, orvostechnikai eszközök.
12. Meddőség kezelés és asszisztált reprodukciós technológia.
13. Az egészség jogi, etikai, szociális jelentőségének, kihívásainak erősödése az innováció korában.

Literature:

FITZPATRICK P. J. 2023. Improving health literacy using the power of digital communications to achieve better health outcomes for patients and practitioners. Frontiers in digital health, 5, 1264780. https://doi.org/10.3389/fdgth.2023.1264780
HALEEM, A., Javaid, M., Pratap Singh, R. and Suman, R. 2022. Medical 4.0 Technologies for Healthcare: Features, Capabilities, and Applications. Internet of Things and Cyber-Physical Systems, 2, 12-30. https://doi.org/10.1016/j.iotcps.2022.04.001
KARUNATHILAKE, E. M. B. M., LE, A. T., HEO, S., CHUNG, Y. S., & MANSOOR, S. (2023). The Path to Smart Farming: Innovations and Opportunities in Precision Agriculture. Agriculture, 13(8), 1593. https://doi.org/10.3390/agriculture13081593
PORÁČOVÁ, J. (ed.), NAGY, M., VAŠKOVÁ, J., VAŠKO, L., MARIYCHUK, R., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., KONEČNÁ, M., GRUĽOVÁ, D., SEDLÁK, V., AVUKOVÁ, A., VAŠKOVÁ, H. 2021. General and applied biochemistry for

natural sciences. Budapest: Budapesti Műszaki és Gazdaságtudományi Egyetem. 221 s. ISBN 978-963-421-847-0. ISBN (online) 978-963-421-848-7.
PORÁČOVÁ, J., NAGY, M., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., TAKÁCSOVÁ-SOPKOVÁ, M., SEDLÁK, V. 2011. Biometria živočíchov a človeka. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 357 s. ISBN 978-80-555-0475-9.
PORÁČOVÁ, J., VAŠKOVÁ, J., VAŠKO, L., NAGY, M. 2015. Základné biochemické procesy organizmov = Basic biochemical processes of organisms. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 343 s. ISBN 978-80-555-1514-4.
PORÁČOVÁ, J., NAGY, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., SEDLÁK, V., VAŠKOVÁ, J., BERNÁTOVÁ, R., VADAŠOVÁ, B., KIMÁKOVÁ, T., LUKÁČ, N., MASSANYI, P., ZAHATŇANSKÁ, M., KOLESÁROVÁ, A., ODLEROVÁ, E., POŠIVÁKOVÁ, T., KOTOSOVÁ, J., FRIMMEROVÁ, A. 2015. Ekofyziológia živočíchov a človeka. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 583 s. ISBN 978-80-555-1524-3.
WHO 2022. Regional digital health action plan for the WHO European Region 2023–2030. https://www.who.int/europe/publications/i/item/EUR-RC72-5
WHO [2024]. Health inequality monitoring: harnessing data to advance health equity. World Health Organization. https://iris.who.int/handle/10665/379703.

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. Sarolta Zsuzsanna Mészárosné Darvay, PhD.,

Date of last update: 30.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ VYS/25	**Name:** Research Methods in Education
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 8	
Recommended semester/trimester of study: 2.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 7 credits: 175–210 hours 26 hours of participation in contact hours (lectures, seminars); 60 hours for preparation of a research project, educational activities, and assignments given during lessons; 89–124 hours of self-study, literature processing, preparation of a presentation, and writing a reflection or report on the acquired knowledge, skills, and their relevance to the graduate's profile. Conditions for completion: The course is completed with an exam, which includes: active participation in classes (10%), continuous fulfilment of assigned tasks during the semester (10%), submission and presentation of the research project (40%), demonstration of understanding of methodological principles in an oral exam (40%). The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge: • The student has a solid command of basic and advanced methodological approaches in pedagogical and didactic research. • Understands the principles of formulating research questions, hypotheses, and selecting an appropriate research strategy. • Is familiar with the types of variables and their measurement and operationalization. • Understands the principles of research ethics and academic integrity.	

• Is aware of the possibilities of using academic databases, digital tools, and artificial intelligence in research.
Skills:
• The student is able to design a research project independently, selecting appropriate research methodology and tools.
• Can identify and retrieve relevant academic sources from national and international databases.
• Can process and analyse quantitative and qualitative data using appropriate tools and software.
• Can interpret research results in the context of current theories and academic literature.
• Is able to use AI-based tools to support various stages of the research process (e.g. literature review, tool development, text analysis).
Competences:
• The student can independently design, conduct, and defend research in the field of the methodology of foreign and second language teaching or science education.
• Adheres to the principles of scientific and academic ethics when working with sources, data, and human participants.
• Can critically reflect on the strengths and limitations of their own research proposal and revise it based on feedback.
• Communicates research results effectively in both written and oral forms, including presentations to academic audiences.
• Demonstrates initiative, independence, and responsibility in scientific research and professional development.

Brief syllabus:

1. Research paradigms and methodological approaches in didactic research
2. Formulating the research problem, objectives, hypotheses and research questions
3. Academic integrity and research ethics
4. Sources for research – scientific databases, repositories, and other tools
5. Use of artificial intelligence in research
6. Data collection in quantitative research: questionnaires, tests, structured observation
7. Data collection in qualitative research: interview, focus group, open observation
8. Types and characteristics of variables, creation of a database. Statistical data processing – descriptive statistics and basic visualizations
9. Statistical data processing – inferential statistics and hypothesis testing
10. Qualitative data analysis – thematic analysis, coding and interpretation of data
11. Development of a research instrument – design, piloting, revision
12. Summary and project presentation

Literature:

BABBIE, E. 2008. A társadalomtudományi kutatás gyakorlata. Ford. KENDE, G. Budapest: Balassi Kiadó. ISBN 978-963-506-764-0.
BELL, J., WATER, S. 2018. Doing Your Research Project: A Guide for First-time Researchers. London: McGraw-Hill Education. ISBN 978-0-335-24338-9
CHRÁSKA, M. 2016. Metody pedagogického výzkumu: Základy kvantitativního výzkumu. Praha: Grada. ISBN 978-80-247-5326-3
DAVIES, M., HUGHES, N. 2014. Doing a Successful Research Project: Using Qualitative or Quantitative Methods. Hampshire: Palgrave Macmillan. ISBN 978-1-137-30642-5
FALUS, I. 2000. Bevezetés a pedagógiai kutatás módszereibe. Budapest: Műszaki Könyvkiadó. ISBN 963 16 2664 4
HENDL, J. 2016. Kvalitatívní výzkum. Základní teorie, metody a aplikace. Praha: Portál. ISBN 978-80-262-0982-9

PORÁČOVÁ, J., NAGY, M., ZAHATŇANSKÁ, M., MYDLÁROVÁ BLAŠČÁKOVÁ, M., TAKÁCSOVÁ-SOPKOVÁ, M., SEDLÁK, V. 2011. Biometria živočíchov a človeka. Prešov: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied. 357 s. ISBN 978-80-555-0475-9.

Language, knowledge of which is necessary to complete a course:
HU and EN

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. Melinda Nagy, PhD.,

Date of last update: 31.03.2025

Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/BCH/ WRI/25	**Name:** Academic Writing in Research on Biology and Chemistry Education
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 7	
Recommended semester/trimester of study: 3.	
Level of study: III.	
Prerequisites:	
Conditions for passing the subject: Total student workload: 7 credits = 175–210 hours 13 hours of seminar attendance (1 hour per week) 25 hours of preparing assignments, short texts, exercises, and presentation 137–172 hours of self-study, academic reading, applying citation styles, writing the final text and reflection Course completion requirements: The course is completed with assessment, which includes: active participation in seminars (20%) completion of assignments during the semester (20%) submission and presentation of a short academic text (60%) The condition for successful completion of the subject is obtaining at least 50% of the maximum point evaluation of the subject. Overall evaluation of the success of the subject: - A = 90-100% (90-100 points) - B = 80-89% (80-89 points) - C = 70-79% (70-79 points) - D = 60-69% (60-69 points) - E = 50-59% (50-59 points) - FX = 0 – 49% (0 – 49 points)	
Results of education: Knowledge: • The student understands the structure of academic texts and the characteristics of scholarly language. • Is familiar with the principles of academic integrity, citation, paraphrasing, and publication ethics. • Can identify quality academic sources and navigate major databases and citation standards. Skills: • The student can produce academic texts according to scholarly standards (e.g., article draft, abstract, chapter).	

• Is able to cite and paraphrase correctly, use academic terminology, and structure texts appropriately.
• Has mastered the processes of literature review, source selection, and working with scientific literature.
Competencies:
• The student can independently write academic texts and reflect critically on their writing process.
• Respects the principles of scholarly communication, ethics, and publishing standards.
• Develops analytical thinking, academic expression, and professional communication within the scientific community.

Brief syllabus:
1. Introduction to academic writing
2. Structure of a scientific publication, defining objectives in academic texts
3. Scientific literature and sources – types of publications, evaluating the quality of sources
4. Referencing, paraphrasing, avoiding plagiarism
5. Academic integrity and ethics in publishing
6. Formulating research background, literature review, framing the problem
7. Describing research design, participants, tools, and procedures
8. Results and discussion in publications
9. Academic language and style
10. Writing an abstract and selecting keywords
11. Choosing a journal and the peer review process
12. Revision, editing, and feedback
13. Presentation of own text (article draft/dissertation chapter)

Literature:
BELL, J., WATER, S. 2018. Doing Your Research Project: A Guide for First-time Researchers. London: McGraw-Hill Education. ISBN 978-0-335-24338-9
ECO, U. 1987. Hogyan írjunk szakdolgozatot? Kairosz Kiadó: Budapest. 2002. ISBN 963 913 753 7
GIBALDI, J. 2009. MLA Handbook for Writers of Research Papers. New York: The Modern Language Association of America. ISBN 978-1-60329-024-1
KATUŠČÁK, D. 2007. Ako písať vysokoškolské a kvalifikačné práce: Ako písať: bakalárske práce, diplomové práce, dizertačné práce, špecializačné práce, habilitačné práce, seminárne a ročníkové práce, práce študentskej vedeckej a odbornej činnosti, ako urobiť bibliografické odkazy, ako citovať tradičné a elektronické dokumenty. Nitra: Enigma. ISBN 978 80 89132 45 4
UNIVERZITA J. SELYEHO: Smernica rektora o úprave, registrácii, sprístupnení a archivácii záverečných prác na Univerzite J. Selyeho. Komárno: UJS https://www.ujs.sk/documents/2025/Smernica_2-2021_zaverecne_prace_na_UJS.pdf

Language, knowledge of which is necessary to complete a course:
Hungarian and Slovak

Notes:

Evaluation of subjects
Total number of evaluated students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Teacher: Dr. habil. PaedDr. Melinda Nagy, PhD., Dr. habil. PaedDr. György Juhász, PhD.,

Date of last update: 30.03.2025
Approved by: Dr. habil. PaedDr. Melinda Nagy, PhD.