INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ ANT1/15	**Name:** Anthropology I

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

Number of credits: 3

Recommended semester/trimester of study: 3.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Protocols of practical exercises - 10%, oral exam - 90%. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to students who do not achieve 50%.

Results of education:
Students acquire basic knowledge in functional human anatomy, including Hungarian, Slovak and Latin nomenclature.

Brief syllabus:
Anatomical nomenclature, basic planes directions and the axis of the body. Skeletal system. Anatomy of the skull, bones of the upper and lower extremities. Muscular system. Overview of the main muscle groups - head, neck, body, arms and legs. The respiratory system. Anatomy of the upper and lower respiratory tract. Digestive system. Anatomical structure of organs. Vascular system. Anatomy of the heart and blood vessels. Lymphatic system. The spleen, lymphatic vessels. Urinary system. Anatomical structure of the kidneys, urinary tract. Genital organs. Reproductive system. Nervous system. Central nervous system, brain, spinal cord, peripheral nervous system - head and spinal nerves. Sensory organs. The anatomical structure of the eyes, positionally and hearing organs, olfactory organs, gustatory organs, and the skin.

Literature:
Čihák, R.: Anatomie I.-III. Avicenum Praha, 1987, 1989, 1997. ISBN 80-7169-970-5
Dylevský, I.: Somatológia. Bratislava : OSVETA, 2000. - 439 s. - ISBN 80-8063-127-1
Feneis, H.: Anatomický obrazový slovník. Stuttgart : Georg Thieme Verlag, 1993. - 455s. - ISBN 80 7169 197 6
Mader, S. S.: Human biology. Wm. C. Brown Publishers, USA, Third edition 1992. 500 s. - ISBN 0-697-12333-2
McCracken, T.O.: Háromdimenziós anatómiai atlasz. Budapest : Scolar Kiadó, 2000. - 237 s. - ISBN 978-963-9193-99-4
Nagy, M.: Humánbiológia, Lilium Aurum, Dunaszerdahely, 2006, ISBN 80-8062-283-3.
Netter, F. H.: Humán anatómiai atlasz. Budapest : Medicina Könyvkiadó, 2004. - 562 s. ISBN 963 242 848 X
POSPÍŠIL, M.: Biológia človeka I. Prírodovedecká fakulta UK Praha, 1998, 340s. ISBN 80-223-1579-6

Szentágothai, J.: Funkcionális anatómia I.-III. Budapest : Medicina Könyvkiadó, 2006. - 710, 600, 800. - ISBN 963 242 565 0

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

Notes:

Evaluation of subjects
Total number of evaluated students: 130

A	B	C	D	E	FX
33.85	16.92	20.77	7.69	6.15	14.62

Teacher: doc. Dr. Csaba Szinetár, CSc., PaedDr. Melinda Nagy, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ BAC-B/15	**Name:** Bachelor Thesis 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: 4

Recommended semester/trimester of study: 5., 6..

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Thesis defense, which is evaluated by the state exams. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to student, who do not achieve 50%.

Results of education:
Student presents basic knowledge, habits and theoretical and practical skills required for work associated with the planning, research implementation in biology and publishing.

Brief syllabus:
Work submitted includes parts in accordance with the current directive of the Rector about the final thesis.

Literature:
Study literature mentioned in the assigned topic.

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: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ BCH1/15	**Name:** Biochemistry and Molecular Biology I

Types, range and methods of educational activities:
Form of study: Lecture / Practical
Recommended extent of course (in hours):
Per week: 2 / 1 **For the study period:** 26 / 13
Methods of study: present

Number of credits: 4

Recommended semester/trimester of study: 2.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Protokols - 10%, oral exams - 90%.
Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%
Credits are not awarded to student, who do not achieve 50%.

Results of education:
Students acquire basic knowledge about the metabolism of living organisms. Understand the chemical composition of living systems and metabolic transformation of substances in living systems.

Brief syllabus:
A brief history biochemistry. Subject and contents of biochemistry. The chemical composition of living organisms. Energetics of living organisms. Polysaccharides: Structure, biologically important monosaccharides and their derivatives. Formation of glycoside bonds. Important oligosaccharides. Lipids: The fatty acids. Triglycerides. Waxes. Complex lipids. Characteristics of biologically relevant lipids. Enzymes: Reaction rate and the effect of the catalyst. Active center of the enzyme and its reaction with the substrate. Apoenzymes and co-enzymes, some vitamins. Inhibition of enzyme reactions. Classification of enzymes. The flow of metabolic reactions, metabolic rate, anabolic, catabolic and amphibolic processes. Methods of study of metabolic processes. The energy metabolism of the cell. Anaerobic and aerobic glycolysis. Citric acid cycle. Glyoxylate cycle. Gluconeogenesis. Pentose cycle. Oxidative phosphorylation. Respiratory chain. Electron carriers. ATP synthesis. Utilization of fatty acids. Beta-oxidation. Biosynthesis of fatty acids. Photosynthetic phosphorylation and carbon fixation. Photosystem I and II. Cyclic and non-cyclic photosynthetic phosphorylation, production of ATP, NADPH and water splitting. The reactions of photosynthesis independent of the light. CO2 fixation in C3 and C4 plants. Photorespiration. Calvin cycle.

Literature:
BÁLEŠ, V., MÉSZÁROS, A., POLAKOVIČ, M., ŠTEFUCA, V.: Biochemické technológie / Biochemical Technologies. - 1. vyd. - Bratislava : AB- Art, 2003. - 128 s. - ISBN 80-89006-75-2
BRECHTLOVÁ, M., HALČÁK, L.: Lekárska biochémia : Seminárna a praktická časť. - 3. vyd. - Bratislava : Univerzita Komenského v Bratislave, 2007. - 168 s. - ISBN 978-80-223-2304-8
GÁLOVÁ, Z., SALAJ, J., MATUŠÍKOVÁ, I.: Molekulárna biológia. - 2. vyd. - Nitra : Slovenská poľnohospodárska univerzita, 2007. - 165 s. - ISBN 978-80-8069-951-2

MANDL, J.: Biokémia : Aminosavak, peptidek, szenhidrátok, lipidek, nukleotidok, nukleinsavak, vitaminok és koenzimek szerkezete és tulajdonságai - 1. vyd. - Budapest : Semmelweis Kiadó, 2006. - 176 s. - ISBN 963 9656 18 6
VODRÁŽKA, Z.: Biochemie . - 1. vyd. - Praha : Academia, 2007. - 190 s. - ISBN 978-80-200-0600-4
WATSON, J.D. A KOL.: Rekombinantní DNA, Academia, Praha, 1988, 294 strán

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

Notes:

Evaluation of subjects
Total number of evaluated students: 175

A	B	C	D	E	FX
33.71	14.86	33.14	11.43	6.86	0.0

Teacher: prof. Dr. János Nemcsók, DSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ BCH2/15	**Name:** Biochemistry and Molecular Biology II

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

Number of credits: 3

Recommended semester/trimester of study: 6.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Protokols - 10%, oral exams - 90%. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50% Credits are not awarded to student, who do not achieve 50%.

Results of education:
Students acquire basic knowledge about the mechanisms of replication, transcription, translation - the molecular basis of genetic information transfer and its expression during ontogenesis.

Brief syllabus:
Amino acids: structure, properties, chemical reactions. Peptide bond. Proteins and polypeptides: Physical and chemical characteristics, primary structure. Secondary structure of proteins. Alpha helix, beta sheet structure and collagen. Tertiary and quaternary structure. Methods of study of protein structure. Protein synthesis. Nucleic acids: nitrogen bases, nucleosides and nucleotides, ribonucleotides, and dezoxyribonukleotides, their structure and characteristics. The primary structure of deoxyribonucleotide acids, its determination. The secondary structure of DNA, A, B, Z forms of double helix and their characteristics. Denaturation of double-stranded DNA. The tertiary structure of the nucleic acids. DNA replication models. Experimental evidence of semi-conservative replication model. The mechanism of replication. Ribonucleic acid. Ribosomal, messenger and transfer RNAs, their structure and function. The synthesis of messenger RNA, transcription of genetic information. Summary of the genetic code. RNA enzyme activity. Terms: inducer, repressor, promoter, regulator. Basic methods of DNA studies. DNA polymorphisms.

Literature:
BÁLINT, M.: Molekuláris biológia I-II. -Műszaki Könyvkiadó, 2006, 414 oldal, ISBN: 9631626547
BÁNFALVI, G.: Molekuláris sejtbiológia. - 1. vyd. - Debrecen : Kossuth Egyetemi Kiadó, 2004. - 440s
BRECHTLOVÁ, M., HALČÁK, L.: Lekárska biochémia : Seminárna a praktická časť. - 3. vyd. - Bratislava : Univerzita Komenského v Bratislave, 2007. - 168 s. - ISBN 978-80-223-2304-8
DARNELL, J.: Molecular cell biology: Scientific American Book, 1986. - 1188. - ISBN 0716714485
Előd i, P.: Biokémia, Akadémiai Kiadó, Budapest 1989, 935 s.
GÁLOVÁ, Z., SALAJ, J., MATUŠÍKOVÁ, I.: Molekulárna biológia. - 2. vyd. - Nitra : Slovenská poľnohospodárska univerzita, 2007. - 165 s. - ISBN 978-80-8069-951-2

WATSON, J.D. A KOL.: Rekombinantní DNA, Academia, Praha, 1988, 294 strán

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

Notes:

Evaluation of subjects
Total number of evaluated students: 95

A	B	C	D	E	FX
42.11	34.74	16.84	5.26	1.05	0.0

Teacher: prof. Dr. János Nemcsók, DSc., PaedDr. Melinda Nagy, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ BOT1/15	**Name:** Botany I
Types, range and methods of educational activities: **Form of study:** Lecture / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: 2 exams during the semester each 25 points. A minimum of 25 points must be acquired during the semester to get accepted to the final exam. Final exam 50 points. Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%.	
Results of education: By completing this course the student will gain knowledge about the anatomy and morfology the vascular plant. Students can use this to the determination of plants	
Brief syllabus: The definition of basic concepts. A brief history of botany. Organs of the plant, characterization and general morphological characteristics, germination of the vascular plant. The root: the primary and secondary structure. The root of monocots and dicots. Modified roots. Stem: tissues, primary and secondary structure. Monocots and dicots stem structure. Modified stems. Morphology - importance, phylogeny, ontogeny, Theory of Teloma. The leaf: Structure and tissues. The grasses, C4 plants and conifers metabolisers leaves. Morphology – anatomy, veins of the leaf blade morphology, simple and compound leafs, leaf development, leaf angles, filotaxis. Formula flowers and flower chart. Flowers: Introduction to plant embryology. The stamens, microsporogenesis, pollen formation and structure. The production, eise, the structure of the embryo sac. Morphology - simple and complex inflorescence, the flower - structure, floral landscapes, stamens, growing. Fruits: The fertilization. The embryo formation and structure. Pollination, fertilization, seed and maturity of harvest, crop types, and spread the seeds of the fruit. Vegetative and sexual reproduction.	
Literature: Bies R., Vlčko J., (1999): Lesnícka botanika špeciálna a fytológia. Návody na cvičenia. Vydavateľstvo TU vo Zvolene, Zvolen ISBN80-228-0807-5 Černohorský Z., (1971): Základy rastlinnej morfológie. SPN, Bratislava Haraszty Á., (1990): Növényszervezettan és növényélettan. Tankönyvkiadó, Budapest ISBN 963 18 3006 3 Tuba Z., Szerdahelyi T., Engloner A., Nagy J., (2007) : Botanika I. Sejttan, szövettan alaktan. Nemzeti tankönyvkiadó, Budapest. ISBN : 978-963-19-5849-2	

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

Notes:

Evaluation of subjects
Total number of evaluated students: 202

A	B	C	D	E	FX
5.94	8.91	15.84	11.88	46.04	11.39

Teacher: prof. Dr. János Nemcsók, DSc., Ing. Pavol Balázs, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ BOT2/15	**Name:** Botany II

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

Number of credits: 3

Recommended semester/trimester of study: 2.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
2 exams during the semester each 25 points.
A minimum of 25 points must be acquired during the semester to get accepted to the final exam.
Final exam 50 points.
Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%.

Results of education:
After successful absolvation of the subject the student will gain knowlege about algae and fungi, know their taxonomy, the bigger groups of them and their respective characterization. The student will learn their importnace in the natural systems and their usability for the humankind.

Brief syllabus:
Phylogenetics of Cyanobacteri, Algae, Fungi and Fungi-like organisms and their significance for the nature and for the humankind.

Literature:
Bačkor M., (2007) : Systematika nižších rastlín. Vydala UPJŠ ISBN 978-80-7097-674-6
Hortobágyi T., (red.) (1977): Növénytan 2. Tankönyvkiadó Budapest. ISBN 963 17 2873 0
Tuba Z., Szerdahelyi T., Engloner A., Nagy J., (2007) : Botanika II. Rendszertan Nemzeti tankönyvkiadó, Budapest. ISBN : 978-963-19-5849-2
Urban Z., Kalina T., (1980): Systém a evoluce nižších rostlin. SPN Praha

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

Notes:

Evaluation of subjects
Total number of evaluated students: 176

A	B	C	D	E	FX
15.91	15.91	7.95	6.25	43.75	10.23

Teacher: prof. Dr. János Nemcsók, DSc., Ing. Pavol Balázs, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ BOT3/15	**Name:** Botany III

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

Number of credits: 6

Recommended semester/trimester of study: 3.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
2 exams during the semester each 25 points.
A minimum of 25 points must be acquired during the semester to get accepted to the final exam.
Final exam 50 points.
Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%.

Results of education:
After successful absolvation of the course the student will know the main characteristics of mosses, ferns, gymnosperms, angiosperms, representative species of each group. The student will learn their importnace and their usability for the humankind.

Brief syllabus:
History of botany.
Taxonomic Categories, the hierarchy system.
Sources of taxonomic information.
Hepatophyta, Anthocerotophyta, Bryophyta, Lycopodiophyta, Equisetophyta, Pteridophyta, Cycadophyta, Ginkgophyta, Gnetophyta, Pinophyta, Magnoliophyta.
The main directions of the evolution of vascular plants.
Flora and vegetation.
Evolution/Developement of the Slovakian flora.
Protection of flora.

Literature:
Balázs P., (2012): Základy systému krytosemenných rastlín – A zárvatermő növények rendszerének alapjai. Univerzita J. Selyeho – Selye János egyetem, Komárno ISBN 978-80-8122-054-8
Gojdičová E., Mártonfi P., Mártonfiová L., (2008): Botanika-Cievnaté rastliny. Vydavateľstvo : Ústav vysokohorskej biológie Žilinskej univerzity ISBN 977808889223121
Hendrych R. (1979): Systém a evoluce vyšších rostlin. SPN, Praha
Hortobágyi T., Simon T., (red.) (1991): Növényföldrajz, társulástan és ökológia. Tankönyvkiadó Budapest. ISBN 963 18 3459
Moravec J. a kol. (1994): Fytocenologie. Academia Praha ISBN 80-200-0128-X
Tuba Z., Szerdahelyi T., Engloner A., Nagy J., (2007) : Botanika II. Rendszertan Nemzeti tankönyvkiadó, Budapest. ISBN : 978-963-19-5849-2

Tuba Z., Szerdahelyi T., Engloner A., Nagy J., (2007) : Botanika III. Növényföldrajz, társulástan, ökológia. Nemzeti tankönyvkiadó, Budapest. ISBN : 978-963-19-5849-2

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

Notes:

Evaluation of subjects
Total number of evaluated students: 137

A	B	C	D	E	FX
10.95	5.11	5.11	7.3	59.85	11.68

Teacher: prof. Dr. János Nemcsók, DSc., Ing. Pavol Balázs, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ BPO/15	**Name:** Biopolitics

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

Number of credits: 2

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Test - 100 points. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to student, who do not achieve 50%.

Results of education:
Students gain knowledge of biopolitics, gain a new perspective on the world in all spheres of life of human activity.

Brief syllabus:
Biopolitics as a tool for sustainable solidarity. Activities of international organizations in the field of global climate change. Diplomacy and international law in the field of biopolitics. Affect the development of biotechnology on the environment. Bio-architecture in human settlements. The state of the environment in Central Europe and Worldwide.

Literature:
CHOZIN, G.S. - VASILIJEV, V.S.- PISAREV, V.D - Bratislava : Pravda, 1982, 280 s.
Ekológia a medzinárodné vzťahy : Otázky životného prostredia vo svetovej politike a ekonomika.
Potravinový kódex SR - http://www.svssr.sk/sk/legislativa/kodex/kodex.asp

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

Notes:

Evaluation of subjects
Total number of evaluated students: 97

A	B	C	D	E	FX
48.45	46.39	4.12	1.03	0.0	0.0

Teacher: prof. Dr. János Nemcsók, DSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ CHM1/15	**Name:** Chemistry I
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 2 **For the study period:** 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 1.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: For the successful accomplishment of this course, the students should collect 40 points during the semester and 60 points from the mid-term writing test. To enter the final exam, it is necessary to obtain 50% (i.e. minimum 20 points. Grading system: grade A (90–100%), grade B (80–89%), grade C (70–79%), grade D (60–69%), grade E (50–59%), and grade F (49% and below).	
Results of education: By successfully finishing this course, students will learn the basic principles of inorganic, organic and organometallic chemistry. In the future, they will be able to apply this basic knowledge for solving real practical problems.	
Brief syllabus: 1. Introduction to chemistry. Basic principles of chemistry. The matter, the pure matter. Mass, weight, energy and the elements. Atomic structure. Compounds. The law of conservation of energy and matter. The chemical bond. 2. The empirical laws. Atoms, compounds, the mole, the molar mass, chemical formulas and equations. 3. Periodic table of the elements 4. Solutions. The units of concentrations, calculations. 5. State of matter. 6. Diffusion and osmosis. Strong and weak electrolytes, ionization. 7. Theory of acids and bases. Titration. 8. Chemical reactions. Types of reactions, electropotentials, galvanic cells, electrolysis. 9. The rules of thermochemistry. Heat of reactions, reaction rates, catalysts. 10. Chemical equilibriums, equilibrium constants.	
Literature: SZABÓ, L.: Kémia I. – általános kémia. Budapest : Nemzeti Tankönyvkiadó, 1995. - 255 s. - ISBN 9631864634. ŽÚRKOVÁ, Ľ.: Všeobecná chémia. Bratislava : SPN, 1985. - 330 s. - ISBN 0010597. GREENWOOD, N. N., EARNSHAW, A.: Chemie prvků I a II. ISBN 80-85427-38-9 PLESCH, G., TATIERSKY, J.: Systematická anorganická chémia. 1 vyd. Bratislava : Omega Info, 2004 (http://anorganika.fns.uniba.sk/~plesch/Systemanorgchem.pdf)	

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

Notes:

Evaluation of subjects
Total number of evaluated students: 168

A	B	C	D	E	FX
26.19	20.24	16.67	17.26	15.48	4.17

Teacher:

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ CHM2/15	**Name:** Chemistry II
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: 2	
Recommended semester/trimester of study: 2.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: For the successful accomplishment of this course, the students should collect 40 points during the semester and 60 points from the mid-term writing test. To enter the final exam, it is necessary to obtain 50% (i.e. minimum 20 points. Grading system: grade A (90–100%), grade B (80–89%), grade C (70–79%), grade D (60–69%), grade E (50–59%), and grade F (49% and below).	
Results of education: By successfully finishing this course, students will get broader knowledge of inorganic, organic and organometallic chemistry. They will learn the basic rules and in the future, they will be able to apply this basic knowledge during their future practice as biology teachers.	
Brief syllabus: 1. Introduction to inorganic chemistry, the general terms. 2. Introduction of the main elements and their compounds. Characterization of the metals and transition metals. 3. Basic principles of organic chemistry. The chemical bonds in the molecules of organic compounds. 4. The central carbon atom, absolute configuration, optical isomerism, types of chirality, chiral molecules, enantiomers, racemates. 5. Saturated hydrocarbons — alkanes, cycloalkanes, bicycloalkanes. 6. Unsaturated hydrocarbons — alkenes, cycloalkenes, dienes, and alkynes. 7. Aromatic hydrocarbons, the electronic structure of benzene, examples of some important aromatic hydrocarbones. 8. Alcohols, phenols, and ethers. Oxo compounds: aldehydes and ketones. 9. Carboxylic acids and their functional derivatives. 10. Chemistry of the fatty acids, properties of the saturated and unsaturated fatty acids. The lipids 11. Heterocyclic compounds, nomenclature, physical and chemical properties. 12. Determinations of organometallic and element organic compounds. Types of ligands.	
Literature: GREENWOOD, N. N., EARNSHAW, A.: Chemie prvků I a II. ISBN 80-85427-38-9 BALOGH, Á.: Szerves kémia. Budapest: Műszaki Könyvkiadó, 1993. - 148 s. - ISBN 9631849791.	

BRUCKNER GY.: Szerves kémia III-1. kötet : Heterociklusos vegyületek. Budapest : Tankönyv Kiadó, 1991. - 755 s. - ISBN 963 18 3637 1.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 12

A	B	C	D	E	FX
8.33	91.67	0.0	0.0	0.0	0.0

Teacher: doc. RNDr. Róbert Gyepes, PhD., Gábor Dibó, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ DIE/15	**Name:** Dietetics

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

Number of credits: 2

Recommended semester/trimester of study: 4.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Final Exam: 100 points maximum. Grading: A – 100 - 90%, B – 89 - 80%, C – 79 - 70%, D – 69 - 60%, E – 59 - 50%. 0–49 Failed/Unsatisfactor.

Results of education:
Students gain advanced knowledge of human and animal nutrition.

Brief syllabus:
Introduction. Components of Nutrition. Food Contaminants
Contamination of Foodstuffs. Principles of Human Nutrition. Nutrition Education. Animal Nutrition and Veterinary Dietetics. Nutritional Value of Food. A nutrient cycle. Future prospects for food and feed security. Using Modern Agricultural Technology to Increase Production, Food Security, and Profitability. Future Prospects.

Literature:
DELI MAGDA, S.: A beteg gyermek diétáskönyve. Medicina, 1981. 310. ISBN 963 240 881 0.
HOPFENZITZOVÁ, P.: Minerálne látky : Aby sme boli fit. 1. vyd. : Media klub, 1999. 88 s. ISBN 80-88963-22-2.
PRINCIPAL, V.: Moje diéta. 1. vyd. : Copyright, 1991. 281s.
ŠIMONEK, J.: Pohyb a zdravie. 1. vyd. - Bratislava : PEEM, 2010. 155s. ISBN 978-80-8113-034-2.
WARD, E.M.: A diétázás bibliája. 1. vyd. Pécs : Alexandra Kiadó, 2005.320 s. ISBN 963 369 475 2.

Language, knowledge of which is necessary to complete a course:
hungarian, 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: Ing. Pavol Makovický, PhD.

Date of last update: 14.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ EMB/15	**Name:** Embryology and education for parenthood

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

Number of credits: 2

Recommended semester/trimester of study: 2.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Study - 50%, and final test - 50%.
Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to students who do not achieve 50%.

Results of education:
Students acquire basic knowledge of embryonic and fetal development in humans and of the various factors that influence this development.

Brief syllabus:
Human embryology, topographical terms in embryology, basic developmental processes. Genitals and reproductive cells. Gametogenesis - spermatogenesis and oogenesis. The reproductive cycle of women - uterine and ovarian cycle. Overview of mans ontogenetic development. Fertilized egg, Blastogenesis. Implantation of blastocysts, trophoblast, embyoblast. Germ blasts and extraembyonal components. Primitive organs of the embryo, forming the body of the embryo. Placenta - structure and function of the placenta, abnormalities in the shape and position of the placenta. Umbilical cord, fetal membranes. The development of the outer shape of the embryo and feta, determining of the age of embryo or feta. Head and neck, gill arches and gill slits. External genital organs. Development of internal organs - nervous system. The development of the cardiovascular system, placental blood flow. Development of the digestive system, respiratory system, urogenital organs and musculoskeletal system. Hormonal influences during pregnancy. Environmental factors - physical, chemical, biological. Developmental disorders and birth defects. Postnatal development of the individual, characteristics of the newborn. The distribution of age periods in human life. Sex, gender and gender stereotypes. Sexual and reproductive health and rights. Sex education for primary and secondary schools. Planned parenthood.

Literature:
Hajn, V.: Antropologie II. - 1. vyd. - Olomouc : Univerzita Palackého v Olomouci, 2001. - 206 s
Kapeller, K.: Embryologický Atlas/Atlas of embryology. - 1. vyd. - Bratislava : Vydavateľstvo OSVETA, 1996. - 120 s. - ISBN 80-217-0549-3
Mohay, J.: Genetika (kislexikon). Natura, 1986. - 180 s. - ISBN 963 233 119 2
POSPÍŠIL, M.: Biológia človeka I. Prírodovedecká fakulta UK Praha, 1998, 340s. ISBN 80-223-1579-6
Sadler, T.W.: Orvosi embriológia. Medicina Könyvkiadó Zrt., 2008, ISBN: 9789632261355

Snustad, P.D., Simmons, M.J.: Genetics, 6th Edition International Student Version. 2012, 784 pages, ISBN : 978-1-118-09242-2
STANEK, I.: Embryológia človeka. SAV Bratislava, 1972, 404s.
Szilágyi, V.: Szexuálpedagógia. Szexuális egészségnevelés. - 1. vyd. - Budapest : Athenaeum 2000 Kiadó, 2006. - 223 s. - ISBN 963 9615 51 X

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: PaedDr. Melinda Nagy, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ ETI/15	**Name:** Ethics for Biologists

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

Number of credits: 2

Recommended semester/trimester of study: 3.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Final Exam: 100 points maximum. Grading: A – 100 - 90%, B – 89 - 80%, C – 79 - 70%, D – 69 - 60%, E – 59 - 50%. 0–49 Failed/Unsatisfactor.

Results of education:
Students taking this course will be able to Identify and discuss basic principles of bioethical practice. Provide rational justifications for ethical decisions.

Brief syllabus:
Bioethics: Basic Definition & Principles. Environmental ethics. Genetic engineering. Genetically modified organisms. Bioethics and the Use of Laboratory Animals. Eugenics. Abortion debate. 8. Surrogacy. Abortion. Death and dying. Euthanasia. Cloning.

Literature:
BALÁZS, P.: Bioetika : Az emberi élet erkölcsteológiája. 1. vyd. - Veszprém : VEK -Veszprémi Egyetemi Kiadó, 1995. 53 s. FERÁK, V. – SRŠEŇ, Š.: Genetika človeka. 1. vyd. - Bratislava : Pedagogické Nakladateľstvo, 1981. 440 s. GAIZLER, G.: Bioetika. 1. vyd. - Budapest, 1999. 285 s. MAKÓ, J. – ULLRICH, Z.: Bioetika – Ökumené. Budapest : Széphalom Könyvműhely, 2003. 332. - ISBN 963 9373 44 3. VARGHA, B.: Eutanázia. - Komárno : Selye János Egyetem, 2011. - DM.4504-TF.11.29B.2B. 74 s

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

Notes:

Evaluation of subjects
Total number of evaluated students: 94

A	B	C	D	E	FX
77.66	12.77	7.45	1.06	1.06	0.0

Teacher: Ing. Pavol Makovický, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ FYP/15	**Name:** Phytopathology

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

Number of credits: 2

Recommended semester/trimester of study: 4.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Final Exam: 100 points maximum. Grading: A – 100 - 90%, B – 89 - 80%, C – 79 - 70%, D – 69 - 60%, E – 59 - 50%. 0–49 Failed/Unsatisfactor.

Results of education:
Acquire basic knowledge about the relationship of plants and pathogens in diagnostic methods and the biology of important pathogens of field crops and garden plants.

Brief syllabus:
Characteristics of non-cellular pathogenic microorganisms. Characteristics of prokaryotic pathogenic microorganisms. The characteristics of eukaryotic pathogenic microorganisms - Methods for diagnostics of pathogenic microorganisms - harmfulness of pathogenic micro-organisms - Methods of protecting plants against pathogens.

Literature:
HORVÁTH, J.: Növényvirusok. Budapest : Mezőgazda Kiadó, 1999. 430 s. ISBN 963 9239 372.
HUSZÁR, J., HUDEC, K. : Atlas chorôb ovocných druhov a viniča hroznorodého. Vydávateľstvo Perexis, 2004. s. 84, ISBN 80- 967853-2-X
HUSZÁR, J. - BOKOR, P. - HUDEC, K.: Choroby záhradníckych rastlín. SPU Nitra, 2006, s. 127. Tretie prepracované vydanie. ISBN 80-7137-744-9
KŮDELA, V.: Obecná fytopatologie. Academia Praha, 1989: 388 s.
ŽEMLA, J. a kol.: Všeobecná virológia. SAP Bratislava, 1995. 238 s.
ŽEMLA, J. a kol.: Špeciálna virológia. SAP Bratislava, 1998. 226 s.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 121

A	B	C	D	E	FX
27.27	27.27	14.05	12.4	17.36	1.65

Teacher: Ing. Pavol Makovický, PhD.

Date of last update: 14.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ FYR/15	**Name:** Plant Physisology
Types, range and methods of educational activities: **Form of study:** Lecture / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 2 **For the study period:** 13 / 26 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 5.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: 2 exams during the semester each 25 points. A minimum of 25 points must be acquired during the semester to get accepted to the final exam. Final exam 50 points. Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%.	
Results of education: By completing this course the student will learn the basics of plant physiology:	
Brief syllabus: Photosynthesis The dissimilation The nitrogen cycle The mineral nutrition The interior material distribution of plants Growth of plants, regulating of growth, plant hormones Ontogenesis of plants Plant movements	
Literature: Haraszty Á., (1990): Növényszervezettan és növényélettan. Tankönyvkiadó, Budapest ISBN 963 18 3006 3 Hejnák V., a kol. (2010) : Fyziologie rostlin. Vydala Česká zemedelská univerzita v Praze ISBN 978-80-213-1667-6 Šebánek, J., a kol. (1983): Fyziologie rostlin. Státní zemedelské nakladatelství, Praha. Suba J., (1991): Növényélettani gyakorlatok. Tankönyvkiadó, Budapest	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 130	

A	B	C	D	E	FX
10.0	10.0	8.46	11.54	49.23	10.77
Teacher: prof. Dr. János Nemcsók, DSc., Ing. Pavol Balázs, PhD.					
Date of last update: 14.06.2016					
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.					

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ FYZ/15	**Name:** Animal and Human Physiology

Types, range and methods of educational activities:
Form of study: Lecture / Practical
Recommended extent of course (in hours):
Per week: 2 / 1 **For the study period:** 26 / 13
Methods of study: present

Number of credits: 5

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Protocols of practical exercises - 10%, oral exam - 90%. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to students who do not achieve 50%.

Results of education:
Students acquire basic knowledge about the physiology of animals and humans, and about the importance of physiology in the study of related biological subjects.

Brief syllabus:
Basic physiological terms. Physiology of blood and blood-forming organs. Physiology of respiration. Thermoregulation. Physiology of the cardiovascular system. Physiology of the gastrointestinal tract. The position of the liver and its functions in the body. Physiology of nutrition and energy metabolism. General properties of conducting and excitable systems. The functions of the peripheral and central nervous system. Work of striated and smooth muscle. Functions of the sensory analyzers. Hormonal regulation. Physiology of reproduction. Physiology of excretion.

Literature:
Čalkovská, A.: Fyziológia človeka : pre nelekárske študijné programy. - 1. vyd. - Martin : Osveta, 2010. - 220 s. - ISBN 978-80-8063-344-8
Hill, R.W. et al.: Animal Physiology. 3rd ed., 2012, ISBN 978-0-87893-559-8
Kiss, J.: Élettan : Feladatok és megoldásaik. Budapest : Typotex, 2004. - 660s. - ISBN 963 9548 07 3.
Mysliveček, J., Trojan, S.: Fyziológie do kapsy. Praha : Triton, 2004. - 466s. - ISBN 80-7254-497-7
Mader, S. S.: Human biology. Wm. C. Brown Publishers, USA, Third edition 1992. 500 s. - ISBN 0-697-12333-2
Nagy, M.: Humánbiológia, Lilium Aurum, Dunaszerdahely, 2006, ISBN 80-8062-283-3.
Netter, F. H.: Humán anatómiai atlasz. Budapest : Medicina Könyvkiadó, 2004. - 562 s. ISBN 963 242 848 X
Reece, W.R.: Fyziologie a funkční anatomie domácích zvířat. 2., rozšířené vydání, Vydavateľstvo: Grada, 2010, 473 strán, ISBN: 9788024732824
Rudas, P.: Az állatorvosi élettan alapjai. Budapest : Springer Hungarica Kiadó Kft., 1995. - 610 s. - ISBN 963 8455 08 X

Szentágothai, J.: Funkcionális anatómia I.-III. Budapest : Medicina Könyvkiadó, 2006. - 710, 600, 800. - ISBN 963 242 565 0

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

Notes:

Evaluation of subjects
Total number of evaluated students: 97

A	B	C	D	E	FX
29.9	18.56	28.87	8.25	9.28	5.15

Teacher: doc. Dr. Csaba Szinetár, CSc., PaedDr. Melinda Nagy, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ GEN1/15	**Name:** Genetics I

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: 2

Recommended semester/trimester of study: 2.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Final test - 100%. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to students who do not achieve 50%.

Results of education:
Students acquire basic knowledge of heredity in plants animals and humans.

Brief syllabus:
Definition of basic terms. A brief history of the issue. Basis of the genetic terminology. Genetic code. The central dogma. Basis of regulation of genetic system. Mendel's laws. Classical genetics. Mutations.

Literature:
Borissza, E.: Ötösöm lesz genetikából. - Budapest : Calibra, 0. - 144. - ISBN 963 686 2117
Ferák, V., Sršeň, Š.: Genetika človeka. SPN, Bratislava, 1990. 488 s., ISBN 80-08-00349-9
Hraška, Š. a kol.: Základy genetiky. UKF Nitra, 1997. 230 s. - ISBN 80-8050-137-8.
Mohay, J.: Genetika (kislexikon). Natura, 1986. - 180 s. - ISBN 963 233 119 2
Poráčová, J., Nagy, M., Zahatňanská, M. et al.: Biometria živočíchov a človeka. Prešovská univerzita v prešove, FHPV, Univerzita J. Selyeho v Komárne, PF, Centrum excelentnosti ekológie, živočíchov a človeka, PU v Prešove, Prešov, 2011, p. 357, ISBN 978-80-555-0475-9
Rédei, P. Gy.: Genetika. Mezőgazdasági Kiadó, 1987. 830 s - ISBN 963 232 287 8
Snustad, P.D., Simmons, M.J.: Genetics, 6th Edition International Student Version. 2012, 784 pages, ISBN : 978-1-118-09242-2
Vodrážka, Z.: Biochemie. - 1. vyd. - Praha : Academia, 2007. - 190 s. - ISBN 978-80-200-0600-4.
Watson, J.D.: DNS az élet titka. - 1. vyd. - Budapest : HVG Könyvek, 2004. - 450s. - ISBN 963 7525 564

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

Notes:

Evaluation of subjects
Total number of evaluated students: 178

A	B	C	D	E	FX
16.85	15.73	16.85	21.91	23.03	5.62

Teacher: PaedDr. Melinda Nagy, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ HIC/15	**Name:** Hystology and Cytology
Types, range and methods of educational activities: **Form of study:** Lecture / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: Final test 50% Exercises: 50% Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%. Under 50% no credit will be given.	
Results of education: The student will gain knowledge of the cell, as the structural and functional base unit of the plants and animals furthermore get introduced to the structure, morphology and function of the different cells and tissues.	
Brief syllabus: The short history of cytology and histology. Stucture of a prokaryotic and an eukaryotic cell. Characterization of a plant cell, animal cell and fungal cell. The chemical composition of cells. The structure and functions of the cells: the biological membranes, the nucleus and nucleolus, lysosomes, microtubules, endoplasmic reticulum, mitochondria, plastids, ribosoms, Golgi apparatus. Cell reproduction: mitosis, meiosis, cytokinesis. Plant tissues: meristems, basic mechanical tissue, skin tissue, assimilating tissues, ventilating tissue, secreting mucus and tissue holder, tissue suppliers. Definition and characterization of the floem and xylem. Animal tissues: epidermis, connective tissue, muscle tissue, nerve tissue, etc.	
Literature: Bózner, A: Cytológia. Osveta, 1992. - 266. - ISBN 8021701684. Fazekas, Gy., Szerényi, G.: Biológia I.: Molekulák, élőlények, életműködések - 1. vyd. - Budapest : Scolar Kiadó, 2002. - 590s. Hudáková, A.: Histológia živočíchov. Bratislava : Univerzita Komenského v Bratislave, 1994. - 100. - ISBN 8022307297. Junqueira, L.C., Carneiro, J., Kelly, O.R.: Basic Histology. a LANGE medical book, 8. th edition, USA, Apleton and Lange, 1995 Kleban, J., Mikeš, J., Fedoročko, P.: Cytológia pracovný zošit na praktické cvičenia. UPJS, Košice, 2006, ISBN 80-7097-643-8 Konrádová, V., Vajner, L., Uhlík, J.: Histologie přednášky pro bakalařské studium. - 1. vyd. - Praha : HH, 2005. - 186 s. - ISBN 80 7319 009 5.	

Klusoňová, H., Lenčo, J.: Praktická cvičení a otázky ze základů cytologie a genetiky. Vydavateľstvo: Karolinum, 2009, ISBN: 9788024612119
Nagy, M.: Humánbiológia, Lilium Aurum, Dunaszerdahely, 2006, ISBN 80-8062-283-3.
Papp, M.: A növények szövetei és a szervek szövettana. - Debrecen : Kossuth Egyetemi Kiadó, 2003. - 210. - ISBN 0013794.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 188

A	B	C	D	E	FX
23.4	23.94	33.51	6.91	11.17	1.06

Teacher: doc. Dr. Csaba Szinetár, CSc., Ing. Pavol Balázs, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ OKB1/15	**Name:** Professional Conversation for Biologists I

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

Number of credits: 2

Recommended semester/trimester of study: 6.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Final Exam: 100 points maximum. Grading: A – 100 - 90%, B – 89 - 80%, C – 79 - 70%, D – 69 - 60%, E – 59 - 50%. 0–49 Failed/Unsatisfactor.

Results of education:
Students learn the professional terminology.

Brief syllabus:
Professional conversations: Zoology, Botany, Chemistry. Genetics, Ethology, Laboratory practical, Cell biology, Anthropology.

Literature:
ĎURECHOVÁ, E.: Príručka prvej pomoci. 1. vyd. - Bratislava : PERFEKT a.s., 2003. 290s. ISBN 80-8046-223-2.
NAGY, M.: Humánbiológia. Komárno : Selye János Egyetem, 2006. 250 s. ISBN 8080622833.
NOVÁK, J. – SKALICKÝ, M.: Botanika : Cytologie, histologie, organologie, systematika. 2. vyd. - Praha : Powerprint, 2009.352 s. ISBN 978-80-904011-5-0.
PETŘVALSKÝ, V.: Zoológia. 3. vyd. Nitra : Slovenská poľnohospodárska univerzita, 2010. - 136 s. ISBN 978-80-552-0465-9.
TÓTH, Z.: Bevezetés a Kémiába : Fizikai-kémiai laboratóriumi gyakorlatok biológiaszakos halgatók számara. 1. vyd. - Debrecen : Kossuth Egyetemi Kiadó, 2002. 89 s.
WOLF, J.: ABC človeka. 1. vyd. - Praha : Orbis, 1977. 462s.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 107

A	B	C	D	E	FX
22.43	19.63	14.95	20.56	16.82	5.61

Teacher: Ing. Pavol Makovický, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ PAC/15	**Name:** Comparative Anatomy of Chordates

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: 2

Recommended semester/trimester of study: 4.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
2 exams during the semester, each 25 points. A minimum of 25 points must be acquired during the semester to get accepted to the final exam.
Final exam 50 points.
Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%.,

Results of education:
The student will gain knowledge of the phylogenesis of the integument-, skeletal-, muscle-, nerve-, digestive-, the vascular-, respiratory-, urinary -, genital system and sensory organs.

Brief syllabus:
1. 1. The integumentary system of the chordates I.
2. 2. The integumentary system of the chordates II.
3. 3. The musculoskeletal system of the chordates I:
4. 4. The musculoskeletal system of the chordates II:
5. 5. The vascular system I
6. 6. The vascular system II. The heart of the vertebrates
7. 7. The respiratory system I.
8. 8. The respiratory system II. The lungs of the vertebrates.
9. 9. Sensory organs. The eye of the vertebrates
10. 10. Anatomy of chordates. The central nervous system of fish.
11. 11. The central nervous system of vertebrates.
12. 12. Vertebrate Morphology I.
13. 13. Vertebrate Morphology II.

Literature:
Beláková A., (1994): Rozmnožovanie a ontogenéza živočíchov. Vyd. UK, Bratislava ISBN 8022307319
Horváth L.,: Funkcionális anatómia.Nemzeti tankönyvkiadó, Budapest
Kriska Gy., Lőw P., (2012): Biológia érettségire felkészítő. Állati szervezetek. Nemzeti Tankönyvkiadó, 222. o. + DVD.
Zboray G., (szerk) (2010): Összehasonlító anatómiai praktikum I. - A gerinctelenek - Anamnia-Az alacsonyabbrendű gerincesek. Nemzeti Tankönyvkiadó.

Zboray G., (szerk) (2012): Összehasonlító anatómiai praktikum II. Amniota. Magasabbrendű gerincesek. ELTE Eötvös Kiadó Kft.
Zboray G., (2007): Összehasonlító anatómiai praktikum II. Amniota- 1. vyd. - Budapest : Nemzeti Tankönyvkiadó, Budapest, ISBN 978-963-19-6000-6
Zboray G.,, Kovács Zs.,, Kriska Gy., Molnár K., Pálfia Zs., (2005): Összehasonlító metszetanatómia. Nemzeti Tankönyvkiadó.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 126

A	B	C	D	E	FX
25.4	30.16	16.67	19.05	1.59	7.14

Teacher: doc. Dr. Csaba Szinetár, CSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ PED1/15	**Name:** Pedology
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 2 **For the study period:** 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 3.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: Final Exam: 100 points maximum. Grading: A – 100 - 90%, B – 89 - 80%, C – 79 - 70%, D – 69 - 60%, E – 59 - 50%. 0–49 Failed/Unsatisfactor.	
Results of education: Main knowledge about soil properties, genesis, soil classification,and land evaluation. Evaluation of land resources in the Slovak Republic. Assesment of soil quality and properties. Knowledge about the role in ecosystem, soil functions and soil quality/health is achieved.	
Brief syllabus: Soil Definition and Origin, Construction and Composition. Soil Quality Physical Indicators. Physical and Chemical Properties of Soil. Soil classification. Soil Survey. Importance of soil to agriculture. Soil Management (Horticulture). Land use, land-use change and forestry. Land and Environment. Protected areas. Land in other sectors of the national economy. Sustainability of Soil Use.	
Literature: CSERNI, I.: Talajtan és agrokémia. 1. vyd. Kertészeti és Élelmiszeripari Egyetem : Kecskemét, 1995. 206 s. HANES, J. - POLÁČEK, Š.: Koloidná chémia pôdy. 1. vyd. Bratislava : Výskumný ústav pôdoznalectva a ochrany pôdy, 2002. 108 s. ISBN 80-85361-96-5. STEFANOVITS, P.- MICHÉLI, E.: A talajok jelentősége a 21. században - 1. vyd. Budapest : MTA Társadalomkutató Központ, 2005. 403s. ISBN 963 508 477 3. STREĎANSKÝ, J.: Zabezpečenie kvality životného prostredia. Nitra : Vysoká Škola Poľnohospodárska, 1997. 114 s. ISBN 80-7137-340-0. SZENDREI, G.: Talajtan. Egyetemi jegyzet. 1. vyd. Budapest : Elte Eötvös Kiadó, 1998. 300 s. ISBN 0003191.	
Language, knowledge of which is necessary to complete a course: hungarian, 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: Ing. Pavol Makovický, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ SZS-B/15	**Name:** Biology

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: 5., 6..

Level of study: I.

Prerequisites: KBIO/Bdb/HIC/15 and KBIO/Bdb/BOT1/15 and KBIO/Bdb/ZOO1/15 and KBIO/Bdb/BCH1/15 and KBIO/Bdb/BOT2/15 and KBIO/Bdb/GEN1/15 and KBIO/Bdb/ANT1/15 and KBIO/Bdb/BOT3/15 and KBIO/Bdb/TER1/15 and KBIO/Bdb/PAC/15 and KBIO/Bdb/TER2/15 and KBIO/Bdb/ZOO2/15 and KBIO/Bdb/FYZ/15 and KBIO/Bdb/FYR/15 and KBIO/Bdb/BCH2/15 and KBIO/Bdb/ZOO3/15

Conditions for passing the subject:
Oral answer of student evaluated by the Commission for state exams. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to student, who do not achieve 50%.

Results of education:
Through the subjects of the specialization, the graduate of the study programme Teacher Training in Biology (combined) masters the basic content of the disciplines of the specialization.

Brief syllabus:

Literature:
Study literature listed in information sheet of compulsory courses.

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: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ TER1/15	**Name:** Field Work in Botany
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 2 **For the study period:** 26 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 4.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: The student will make herbarium with at least 200 species. The exam is based on this herbarium. With random choice 30 species will be chosen that has to be recognized and scientifically named by the student. Evaluation: A: 30-29-28 B:27-26-25 C:24-23-22 D:21-20-19 E:18-17-16 Under 16 no credit will be given. Obilgatory report of the field trip.	
Results of education: The student will learn the basics of the creation of a herbarium, will be able to identify vascular plants with taxonomic key, and gain knowledge about the current nature conservation laws.	
Brief syllabus: Identification of vascular plants with taxonomic key. Creation of a herbarium. Current nature concervation laws.	
Literature: Dostál J., Červenka M., (1991): Veľký kľúč na určovanie vyšších rastlín I. SPN Bratislava ISBN 80-08-00273-5 Dostál J., Červenka M., (1992): Veľký kľúč na určovanie vyšších rastlín II. SPN Bratislava ISBN 80-08-00003-5 Simon T., (2004) : A magyarországi edényes flóra határozója. Nemzeti tankönyvkiadó, Budapest. ISBN 963 19 1226 4 Aktuálny zákon NR SR o ochrane prírody a krajiny a súvisiace vyhlášky MŽP SR.	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	

Evaluation of subjects
Total number of evaluated students: 121

A	B	C	D	E	FX
23.14	15.7	6.61	9.92	33.06	11.57

Teacher: Ing. Pavol Balázs, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ TER2/15	**Name:** Field Work in Zoology and Anthropology
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 2 **For the study period:** 26 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 6.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: Individual report from the field exercise. Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%, Under 50% no credit will be given.	
Results of education: The student will classify the animals found with the help of a taxonomic key, also gains practical knowledge in osteo-antropologycal research.	
Brief syllabus: Creating small collection of invertebrates and vertebrates. Photographic documentation. Collecting animals with pitfall traps. Classification of the collected animals. Collecting and sorting of crop pests. Collecting and classification in different habitat types Practical understanding of the anthropological researches -cemetery excavation. -processing and classifying bones	
Literature: STANĚK, V. J.: Veľký obrazový atlas zvierat, - 5. vyd. - Bratislava : Vydavateľstvo Mladé Letá, 1983. - 592s ČIHÁK, R.: Anatomie I.-III. Avicenum Praha, 1987, 1989, 1997. ISBN 80-7169-970-5 FENEIS, H.: Anatomický obrazový slovník. Stuttgart : Georg Thieme Verlag, 1993. - 455s. - ISBN 80 7169 197 6 H.BATTHA, L. Növények és rovarok preparálása . NATURA, 1978. - 191. - ISBN 963 233 046 3.	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects Total number of evaluated students: 95	

A	B	C	D	E	FX
77.89	18.95	2.11	0.0	0.0	1.05

Teacher: doc. Dr. Csaba Szinetár, CSc., PaedDr. Melinda Nagy, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ VPB/15	**Name:** Scientific Work and Publish of Results in Biology

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

Number of credits: 2

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Study - 100%. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to student, who do not achieve 50%.

Results of education:
Student acquire basic knowledge, habits and theoretical and practical skills required for work associated with the planning, research implementation in biology and publishing.

Brief syllabus:
The importance of scientific research. Planning research. Orientation in the scientific literature. The formulation of objectives and working hypotheses. The research methodology. Quantitative and qualitative research methods. Experiment. Fieldwork. Laboratory work. Execution of research. Treatment of results. The structure of scientific work. The form and arrangement of the various parts of the publication. Introduction and status of existing knowledge. Summarize and display the results. Discussion of results. Conclusions. Citation of references and bibliography creation. Annexes to scientific work. Presentation of results - lectures, posters, publications.

Literature:
ECCO, U.: Hogyan írjunk szakdolgozatot? Kairosz, 1987. - 255. - ISBN 9639137537
H.BATTHA, L. Növények és rovarok preparálása . NATURA, 1978. - 191. - ISBN 963 233 046 3.
CHAJDIAK, J.: Štatistika v Exceli. - 1. vyd. - Bratislava : Statis, 2002. - 159 s. - ISBN 80-85659-27-1.
KATUŠČÁK, D.: Ako písať vysokoškolské a kvalifikačné práce. 5. vyd. - Nitra : Enigma, 2008. - 164 s. - ISBN 978-80-89132-45-4
KUBÁNKOVÁ, V., HENDL, J.: Statistika pro zdravotníky : Zdravotnické aktuality - 1. vyd. - Praha : Avicenum, 1986. - s.
NAGY-GYÖRGY, J.: Valószínűségszámítás és statisztika példatár : POLYGON Jegyzettár - 1. vyd. - Szeged : Szegedi Egyetemi Kiadó POLYGON, 2010. - 111 s.
SILVERMAN, D.: Ako robiť kvalitatívny výskum /. - Bratislava : Ikar a.s., 2005. - 328 s. - ISBN 80-551-0904-4.
SOMSÁK, L.: Szerves kémiai praktikum I. - Debrecen : Kossuth Egyetemi Kiadó, 2004. - 230 s. - ISBN 0013788

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: doc. Dr. Csaba Szinetár, CSc., PaedDr. Melinda Nagy, PhD., Ing. Pavol Balázs, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ ZET/15	**Name:** Fundamentals of Ecotoxicology

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

Number of credits: 2

Recommended semester/trimester of study: 6.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Passing the course is conditional on the successful participation in the test and oral examination. During the semester one written test for 40 points. Participation in the oral examination is conditional upon at least 50% of the points (min. 20 points) of the test. Final assessment: the proportion of oral examination and a written test : 60% - 40%. A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%

Results of education:
After successful completion of this course, students will gain knowledge on the toxicology of environment, effects of environmental pollutants, biodegradation of xenobiotics in the organisms.

Brief syllabus:
1. Introduction. 2. The distribution of the pollution. 3. Toxicity, poison, types of toxic effects. 4. The interaction of chemicals, self-replicating toxicity. 5. Identification of pollutants, distribution and excretion of harmful substances. 6. Mutagenic, teratogenic and carcinogenic contaminants, toxins and their classification. 7. The toxic effect of the elements and their compounds in the body. 8. Toxic effects of selected types of organic compounds. 9. The pesticidal compounds - carbamates, organophosphates, organic chlorine compounds, pyrethroid compounds, pheromones. Herbicides, and heavy metals. 10. Radioactive substances, radiation, radiotoxicity, artificial radioactivity. 11. Preventive toxicology, hygiene regulations, exposure tests.

Literature:
TOLGYESSY, J. a kol., 1989: Chémia, biológia a toxikológia vody a ovzdušia. Veda SAV, Bratislava, 531s. ISBN 80-224-0034-3
CALOW, P.: Handbook of Ecotoxicology - 1. vyd. : Blackwell Science, 1998. - 885 s. - ISBN 0 632 04933 2.
PÉNZES, B.: Mérgező anyagok a környezetben. Budapest, Mezőgazdasági Kiadó, 1989. ISBN 9 632 34022 1
KVASNIČKOVÁ, D.: Životné prostredie - 1. vyd. Bratislava: Slovenské pedagogické nakladateľstvo, 2002. 160 s. ISBN 80-08-03341-X

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

Notes:

Evaluation of subjects
Total number of evaluated students: 93

A	B	C	D	E	FX
55.91	44.09	0.0	0.0	0.0	0.0

Teacher: doc. RNDr. Róbert Gyepes, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ ZOO1/15	**Name:** Zoology I
Types, range and methods of educational activities: **Form of study:** Lecture / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 1.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: Final test. Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%, Under 50% no credit will be given.	
Results of education: The student will gain knowledge about the animal taxons and their anatomy.	
Brief syllabus: Anatomy of the different taxonomical groups of animals. Anatomy of the animal organs. Important species from nature protection point of view. Overview of animal systems (parasites, coprofages, saprofages, vectors, pollenators). Comparison of characteristic features and organ systems of different taxonomical groups.Domestic animals.Genom usage of non-domestic animals.	
Literature: BAKONYI, G.: Álattan. Mezőgazda Kiadó. 2003. BELÁKOVÁ, A.: Rozmnožovanie a ontogenéza živočíchov. Bratislava : Univerzita Komenského v Bratislave, 1994. 80. ISBN 8022307319. CSÖRGŐ és mtsi szerk. Magyar madárvonulási atlasz. Kossuth Kiadó, 2009. KRISKA, G. - LŐW, P.: Biológia érettségire felkészítő. Állati szervezetek. Nemzeti Tankönyvkiadó, 222. o. + DVD. 2012. PETŘVALSKÝ, V.: Zoológia. 3. vyd. Nitra : Slovenská poľnohospodárska univerzita, 2010. 136 s. ISBN 978-80-552-0465-9. ZBORAY, G.: Összehasonlító anatómiai praktikum I. - A gerinctelenek - Anamnia-Az alacsonyabbrendű gerincesek. Nemzeti Tankönyvkiadó, 2010. ZBORAY, G.: Összehasonlító anatómiai praktikum II. Amniota. Magasabbrendű gerincesek. ELTE Eötvös Kiadó Kft., 2012. UJVÁROSI, L. - URÁK, I.: Állattani ismeretek. Ábel Kiadó, Kolozsvár, Románia, p. 260. 2008.	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	

Evaluation of subjects
Total number of evaluated students: 206

A	B	C	D	E	FX
30.1	22.33	23.3	8.74	9.71	5.83

Teacher: doc. Dr. Csaba Szinetár, CSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ ZOO2/15	**Name:** Zoology II
Types, range and methods of educational activities: **Form of study:** Lecture / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 2 **For the study period:** 13 / 26 **Methods of study:** present	
Number of credits: 4	
Recommended semester/trimester of study: 4.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: Final test. Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%, Under 50% no credit will be given	
Results of education: After completing the course the student will know the characteristics of different groups of invertebrates, representative species of each group and their significance for the humankind.	
Brief syllabus: Introduction into zoology. Classification and nomenclature of Animals Origin and evolution of zoological systmatics. Modern zoological classification. Protozoan phyla (Animal-like Protista) Classification of the Animal-like Protista, their economically and evolutionaly representatives. Metazoa Porifera. Sponges – general description and system. Eumetazoa The Radiate Animals: Cnidaria general description and system. Bilaterian Animals Plathelminthes, Entoprocta, Nemertiny, Nemathelmintes, Priapulida Sipulculida, Echiurida, Nemertiny, Annelida, Mollusca, Arthropoda, Crustacea, Myriapoda, Chelicerata, Hexapoda, Insecta, Tentaculata, Chaetognatha , Enteropreusta, Pogonofora, Echinodermata. general description and system. their economically important species	
Literature: BIHARI, Z. – CSORBA, G.: Magyarország emlőseinek atlasza. Kossuth Kiadó, 2007. PECHENIK, J. E.: Biology of the Invertebrates. 6. vyd. - Boston : McGraw-Hill International, 2005. - 603s. - ISBN 978-0-07-128455-4. PETŘVALSKÝ, V.: Zoológia. 3. vyd. - Nitra : Slovenská poľnohospodárska univerzita, 2010. 136 s. ISBN 978-80-552-0465-9. UJHELYI, P.: A Kárpát-medence állatai. Kossuth Kiadó, 2005. UJVÁROSI, L. - URÁK, I.: Állattani ismeretek. Ábel Kiadó, Kolozsvár, Románia, 2008, 260 s.	

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

Notes:

Evaluation of subjects
Total number of evaluated students: 103

A	B	C	D	E	FX
21.36	38.83	18.45	9.71	4.85	6.8

Teacher: doc. Dr. Csaba Szinetár, CSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/Bdb/ ZOO3/15	**Name:** Zoology III
Types, range and methods of educational activities: **Form of study:** Lecture / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 1 **For the study period:** 13 / 13 **Methods of study:** present	
Number of credits: 3	
Recommended semester/trimester of study: 6.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: 2 exams during the semester each 25 points. A minimum of 25 points must be acquired during the semester to get accepted to the final exam. Final exam 50 points. Evaluation: A – 100-90%, B – 89-80%, C – 79-70%, D – 69-60%, E – 59-50%,	
Results of education: After completing the course the student will know the characteristics of different groups of chordates, representative species of each group and their significance for the humankind.	
Brief syllabus: Chordata, Urochordata, Copelata ,Cephalochordata - General Characteristics and Classification Vertebrata – General Characteristics: the integument-, skeletal-, muscle-, nerve-, digestive-, the vascular-, respiratory-, urinary -, genital system and sensory organs. Evolution and classification of the vertebrates -Agnatha –Lampreys and Hagfishes: General Characteristics and Classification. -Gnathostomata: Chondrichthyes – Sharks, Skates and Rays: General Characteristics and Classification. -Osteichthyes: Bony Fishes: General Characteristics and Classification. -Amphibia: Caecilinans, Salamanders and Frogs: General Characteristics and Classification. -Reptilia: Turtles, Lizards, Snakes, Crocodiles: General Characteristics and Classification. -Aves: Birds: General Characteristics and Classification. -Mammalia: Mammals: General Characteristics and Classification.	
Literature: Bakonyi Gábor (szerk). (2003): Állattan. Mezőgazda Kiadó. Bihari Z., Csorba G., (2007): Magyarország emlőseinek atlasza. Kossuth Kiadó. Csörgő és mtsi szerk. (2009): Magyar madárvonulási atlasz. Kossuth Kiadó. Faragó S., (2000): Gerinces állatrendszertan. Nyugat-Magyarországi Egyetem Erdőmérnöki Kar, Sopron. Forró L., (szerk) (2007): A Kárpát-medence állatvilágának kialakulása. Magyar Természettudományi Múzeum, Budapest. Gaisler J., Zima J., (2007) : Zoologie obratlovcu, Academia, Praha, ISBN 9788020014849 Harka Á., Sallai Z. (2004): Magyarország halai. Nimfea Természetvédelmi	

Egyesület.
Koščo J., (2008): Úvod do zoológie chordátov PU v Prešove FHPV ISBN 978-80-8068-630-7
Kriska Gy., Lőw P., (2012): Biológia érettségire felkészítő. Állati szervezetek. Nemzeti Tankönyvkiadó, 222. o. + DVD.
Puky M., Schád P., Szövényi G., (2005): Magyarország herpetológiai atlasza. Varangy Akció Csoport Egyesület, Budapest.
Ujhelyi P., (szerk.) (2005): A Kárpát-medence állatai. Kossuth Kiadó, 2005.
Ujvárosi L.,Urák, I., (2008): Állattani ismeretek..Ábel Kiadó, Kolozsvár, Románia, 260 s.
Forró László (szerk) (2007): A Kárpát-medence állatvilágának kialakulása. Magyar Természettudományi Múzeum, Budapest.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 94

A	B	C	D	E	FX
32.98	26.6	19.15	10.64	7.45	3.19

Teacher: doc. Dr. Csaba Szinetár, CSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KBIO/Bdb/ ZUR/15	**Name:** Fundamentals of Sustainable Development

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

Number of credits: 2

Recommended semester/trimester of study: 1.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Test - 100 points. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to student, who do not achieve 50%.

Results of education:
Students gained theoretical knowledge about anthropogenic or natural origin changes in the environment.

Brief syllabus:
The environment. Sources of pollution and environmental damage. Options to reduce pollutants in the environment. Ecological impacts of environmental pollution. Ecological monitoring. Application of environmental ecology.

Literature:
HOLÉCZYOVÁ, G. - ČIPÁKOVÁ, A. - DIETZOVÁ, Z.: Hygiena životného prostredia. 1. vyd. - Košice : Univerzita Pavla Jozefa Šafárika, 2011. ISBN 978 80 7097 892 4. 201 s.
MOLDAN, B.: Ekologická dimenze udržitelného rozvoje. 1. vyd. - Praha : Univerzita Karlova v Praze, 2006.102 s.
MONSPART, E. – TROMBITÁS, G.: 101 lépés a fenntartható világ felé. 1. vyd. - Budapest : Környezeti Tanácsadók Egyesülete, 1998. 120 s.
PAULINIOVÁ, Z.: Ako zachrániť zem. 1. vyd. - Bratislava : MV SZOPK, 1989. 170 s.
SCHMUCK, E.: A "Fenntarthatóság" első éve : A riói környezet és fejlődés világkonferencia tízéves évfordulójának alkalmából 1. vyd. : Magyar Természetvédők Szövetsége, 2002. 31s.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 118

A	B	C	D	E	FX
27.12	66.1	2.54	0.85	0.0	3.39

Teacher: prof. Dr. János Nemcsók, DSc.

Date of last update: 14.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KIN/FLA/10 | **Name:** Graphics and Animations in Adobe Flash CS5

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

Number of credits: 2

Recommended semester/trimester of study:

Level of study: I.

Prerequisites:

Conditions for passing the subject:

Results of education:

Brief syllabus:

Literature:

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

Notes:

Evaluation of subjects
Total number of evaluated students: 90

A	B	C	D	E	FX
51.11	15.56	18.89	13.33	1.11	0.0

Teacher: Sándor Szénási, PhD.

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/GEN1/ SZ/12	**Name:** Gender study 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: 1

Recommended semester/trimester of study: 2.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
Final test. Condition for successful completion of this course is to obtain at least 50% of the maximum possible assessment of the subject. Evaluation: A - 90 -100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%.

Results of education:
The student will learn about the concept of social gender in social, psychological, and biological context. The student will be able to identify gender prejudice in education and develop preventive methods for women and men (girls and boys). The student will be able to recognize the stereotype system within the education, and its negative effects. The student will be able to apply the necessary methodology for ensuring social gender identity in the school environment.

Brief syllabus:
The history of education of women. Education and coeducation and their specifics. The characteristics of the exceptional women in history. Gender roles - the prestige of women in society. The role of education in shaping identity. Meaning ism.

Literature:
BÚTOROVÁ, Zora. a kol. (2003): Ženy, muži a rovnosť príležitostí. In: Slovensko 2002. Súhrnná správa o stave spoločnosti. Bratislava: Inštitút pre verejné otázky
FÁBRI, Anna (1999): A nő és hivatása (Žena a jej povolanie). Kortárs Kiadó: Budapest
HORNEY, Karen (2002): Psychológia ženy. Bratislava: Aspekt. 109 s. ISBN 80-85549-35-2
KÉRI, Katalin (1999): Tollam szivárványba mártom. (Források az európai nőtörténet köréből az ókortól a 20. századig.) (Pramene o histórii žien v Európe od staroveku po XX. str.). Pécs. URL: Http://kerikata.hu/publikaciok/text/tollam/tollam.pdf
KOSOVÁ, Beata. (2008): Sociálna spravodlivosť a rodové rozdiely v slovenskej škole v zrkadle medzinárodného testovania. In Pedagogická orientace: zpravodaj ČPDS při ČSAV, SPDS pri SAV. - Brno: Česká pedagogická společnost. ISSN 1211 4669. č. 2. s. 81-94.
MILES, Rosalinde (2000): Az idő leányai. (Dcéry času). Balassi Kiadó: Budapest.
PALASIK, Mária, SIPOS, Balázs (ed., 2005): Házastárs? Munkatárs? Vetélytárs? (Partner? Kolega? Rival?). A női szerepek változása a 20. századi Magyarországon. Napvilág Kiadó: Budapest.
PIETRUCHOVÁ, O. , MESOCHORTISOVÁ, A. (2007): Rodová rovnosť v organizácii. Bratislava:

Okat plus, 2007, 62 s. ISBN 978 80 88720 12 6
PUKÁNSZKY, Béla (2006): A nőnevelés évezredei. Fejezetek a lányok nevelésének történetéből. (Tisícročie výchovy žien. State z histórie výchovy dievčat). Gondolat: Budapest. 189 p. ISBN: 9639601518
SHAHAR, Shulamith (2004): A negyedik rend. Nők a középkorban. (Štvrtá kasta. Ženy v stredoveku). Osiris: Budapest. 371 p. ISBN 963 389 601 0
STRÉDL, Terézia (2010): Rodovosť a jej formujúce vplyvy. In: Česká a Slovenská republika na počátku nového milénia. Praha. ISBN 978-80-86744-84-1. s. 462 - 467
TOKÁROVÁ, Anna (2003, 2007): Vzdelávanie žien na Slovensku. Sociálne bariéry a stimuly v historickom priereze. Prešov: Akcent Print

Language, knowledge of which is necessary to complete a course:
hungarian or slowak language

Notes:

Evaluation of subjects
Total number of evaluated students: 307

A	B	C	D	E	FX
31.92	38.11	12.7	14.66	2.61	0.0

Teacher: prof. Dr. Béla István Pukánszki, DSc., prof. Dr. Zsuzsanna Vajda, CSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ AP/15	**Name:** Architektúra počítačov
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 2 / 0 / 1 **For the study period:** 26 / 0 / 13 **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 3.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: The subject is finished by an written exam (test). For assessment A should be obtained at least 90 points, for assessment B at least 80 points, for assessment C at least 70 points, for assessment D at least 60 points, for assessment E at least 50 points. Credits will not be granted to students who obtain less than 50 points.	
Results of education: Within this subject students are familiar with the construction and principles of operation of computers, the computer architecture. Students gain a deeper understanding of traditional Von-Neumann architecture. Attention is paid to the technological milestones that have been the basis for the development of processors and computer components. The ways of cooperating of base units, principles of their operation and application areas with regard to current trends are explained. Attention is also paid to theoretical background and demonstrations of specific problems solutions in the context of current trends in the field.	
Brief syllabus: The meaning of computer architecture. Boolean algebra, logic elements. Logic circuits - design and realization Building blocks of digital systems Computer memory, registers. Data types, mathematical operations, Arithmetic logic unit, executing instructions (instruction cycle). Bus types, principle of operation, serial and parallel bus (FSB, PCI, PCIe, HT, QPI), characteristics I/O, I/O operations, performed in the storage unit DMA. I/O channel. IRQ system. Pinciple of operation DRAM, SRAM, ROM a EEPROM. Virtual machine - construction and operating principles. Intel, AMD, IBM a ARM processors, their architecture and development trends. Multi-core processors - development, implementation reasons, restrictions on use.	
Literature:	

1. CSERNY, L. : Mikroszámítógépek. Budapest : LSI Oktatóközpont, 2003. s. 330. ISBN 963 577 188 6.
2. SIMA D. – FOUNTAIN, T. – KACSUK, P.: Korszerű számítógép-architektúrák tervezési tér megközelítésben. Bicske : SZAK Kiadó, 1998, s. 809. ISBN 963 9131 09 1.
3. TANNENBAUM, A. S.: Számítógéparchitektúrák. Budapest : Panem Kiadó, 2001, s. 720. ISBN 963 545 282 9

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

Notes:

Evaluation of subjects
Total number of evaluated students: 129

A	B	C	D	E	FX
12.4	19.38	21.71	14.73	24.81	6.98

Teacher: Ing. Ondrej Takáč, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ BEI/15	**Name:** Bezpečnosť a ergonómia v IKT
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 1 / 1 **For the study period:** 0 / 13 / 13 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 3.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
Notes:	

Evaluation of subjects

Total number of evaluated students: 36

A	B	C	D	E	FX
72.22	11.11	8.33	2.78	2.78	2.78

Teacher: Dr. Gábor Kiss, PhD., PaedDr. Ákos Valent
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ DEI/15	**Name:** Dejiny informatiky a IKT

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 0 / 2 / 0 **For the study period:** 0 / 26 / 0
Methods of study: present

Number of credits: 2

Recommended semester/trimester of study: 1.

Level of study: I.

Prerequisites:

Conditions for passing the subject:

Results of education:

Brief syllabus:

Literature:

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

Notes:

Evaluation of subjects
Total number of evaluated students: 408

A	B	C	D	E	FX
28.19	11.76	12.5	17.65	22.06	7.84

Teacher: Dr. Gábor Kiss, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ DM/15	**Name:** Discret Mathematics

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 1 / 2 / 0 **For the study period:** 13 / 26 / 0
Methods of study: present

Number of credits: 5

Recommended semester/trimester of study: 2.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
During the semester will be held two written tests by 20 points. The course is finished by an exam where it is possible to obtain 60 points. For assessment A should be obtained at least 90 points, for assessment B at least 80 points, for assessment C at least 70 points, for assessment D at least 60 points, for assessment E at least 50 points. Credits will not be granted to students who obtain less than 50 points.

Results of education:
At the end of the course, students will obtain an overview of the basic concepts of Set Theory, Combinatorics, Mathematical Logic and Boolean Algebra.

Brief syllabus:
Introduction to the Discrete Mathematics, Peano axioms, principle of Mathematical induction.
Set Theory – basic terms, set operations.
Relations and mappings, composition of mappings, equivalence relation.
Cardinality of sets, finite and nonfinite sets, computable sets.
Combinatorics – combinations and variations (with and without repetition).
Permutations (with and without repetition), combinatorial identities.
Binomial and Polynomial theorem.
Inclusion–exclusion principle, Pigeonhole principle.
Propositions and logical operations, tautologies.
Boolean algebra – binary Boolean functions, realization of Boolean functions by formulas.
Equivalence of Boolean formulas, properties of elementary Boolean functions, principle of duality.
Canonic form of Boolean functions, full disjunctive normal form.
Functional completeness and closure, most important closed classes, Completeness theorem.
Minimization of Boolean functions.

Literature:
JABLONSKIJ, S. V.: Úvod do diskrétnej matematiky. Bratislava : Alfa, 1984., 278 s.
JABLONSKIJ, S. V. a kol.: Diszkrét matematika a számítástudományban. Budapest : Műszaki Könyvkiadó, 1980. 354 s. ISBN 978-963-1025-99-3 SZENDREI, Á.: Diszkrét matematika. Szeged : Polygon, 1998. 380 s. ISSN 1417-0590. LOVÁSZ, L.: Kombinatorikai problémák és feladatok. Budapest : Typotex, 2008. 670 s. ISBN 978-963-9664-93-7. LOVÁSZ, L. –

VESZTERGOMBI, K. – PELIKÁN, J.: Diszkrét matematika. Budapest : Typotex, 2006. 292 s. ISBN 978-963-9664-02-9.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 635

A	B	C	D	E	FX
11.97	7.87	14.8	14.49	23.62	27.24

Teacher: Dr. habil. László Szalay, DSc.

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ DS1/15	**Name:** Databázové systémy 1

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 1 / 0 / 2 **For the study period:** 13 / 0 / 26
Methods of study: present

Number of credits: 4

Recommended semester/trimester of study: 4.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Students during the semester to create their own database applications, where it is possible to obtain 50 percent. The course is finished by an exam where it is possible to obtain 50 percent. For assessment A should be obtained at least 90 percent, for assessment B at least 80 percent, for assessment C at least 70 percent, for assessment D at least 60 percent, for assessment E at least 50 percent. Credits will not be granted to students who obtain less than 50 points.

Results of education:
In this course the student learns the issue of databases, their design and further its knowledge of relational databases. After successfully completing the course will gain an overview as the theoretical knowledge as well as practical aspects of creation of database systems, to acquire basic technical terminology in the field and this knowledge can also adequately used for the analysis of database systems, their design and implementation in the selected database environment.

Brief syllabus:
Basic concepts and terminology database systems.
Introduction to database technology.
Semantic database models.
Hierarchical database models.
Network database models.
The relational database model.
Relational algebra.
Normal forms of relational databases.
Normalization process for the demonstration.
Customization and debug databases.

Literature:
SIMON, A.: Alkalmazások fejlesztése Accesben: Budapest: Panem, 2002. 268 s. – ISBN 9635453280.
HERNANDEZ, M. J.: Adatbázis-tervezés: Addison-Wesley, 2004. – 428 s. – ISBN 963 9301 75 2.
BÁRTFAI, B.: Adatbáziskezelés: Budapest: 2002. 136s. ISBN 963 003444 1.

PIZZO, D. - ALBERICO, D. - LUCARELLY, F.: Adatbáziskezelés és hálózati ismeretek. Szeged: 2Fôiskola 2010.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 264

A	B	C	D	E	FX
12.5	15.15	20.08	20.08	19.7	12.5

Teacher: Dr. habil. Attila Elemér Kiss, CSc., Ing. Ondrej Takáč, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KMI/Idb/ DS2/15	**Name:** Databázové systémy 2

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 0 / 0 / 2 **For the study period:** 0 / 0 / 26
Methods of study: present

Number of credits: 2

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
During the semester, midterm tests are written by students. Based on the average of the results: above 90% A, between 80 to 90% B, 70-80% C, 60-70% D, 50-60% E below 50% FX.

Results of education:
The purpose of the course is to learn about dynamic web pages. During the class, students learn to use HTML, PHP and MySQL environments.

Brief syllabus:
The student learns the basics of PHP language and working with database during the semester. PHP and SQL skills: PHP language, control structures. PHP and HTML / CSS relationship. Functions usage. Using arrays in PHP. Strings. File manipulation. SQL Language Reference. The relationship between MySQL and PHP. Create and optimize specific applications.

Literature:
SIMON, A.: Alkalmazások fejlesztése Accesben: Budapest: Panem, 2002. 268 s. – ISBN 9635453280.
HERNANDEZ, M. J.: Adatbázis-tervezés: Addison-Wesley, 2004. – 428 s. – ISBN 963 9301 75 2.
BÁRTFAI, B.: Adatbáziskezelés: Budapest: 2002. 136s. ISBN 963 003444 1.
PIZZO, D. - ALBERICO, D. - LUCARELLY, F.: Adatbáziskezelés és hálózati ismeretek. Szeged: 2F iskola 2010.
WILLIAMS, L.: PHP a MySQL, ComputerPress, 2003, 530 s. ISBN 80 7226 760 4.
KENDE, M. – KOTSIS, D. – NAGY, I.: Adatbázis-kezelé saz Oracle rendszerben: Budapest: Panem, 2002. 610 s. – ISBN 963 545 347 7.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 131

A	B	C	D	E	FX
41.22	19.85	11.45	12.98	11.45	3.05

Teacher: Dániel Zoltán Stojcsics, PhD.
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ GED/15	**Name:** Počítačová grafika 1
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 0 / 2 **For the study period:** 0 / 0 / 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 3.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: During the semester students work on an individual project where it is possible to obtain 100 points. For assessment A should be obtained at least 90 points, for assessment B at least 80 points, for assessment C at least 70 points, for assessment D at least 60 points, for assessment E at least 50 points. Credits will not be granted to students who obtain less than 50 points.	
Results of education: At the end of the course, students will obtain an overview of the basic concepts of Raster graphics and they will be able to apply this knowledge during photo editing.	
Brief syllabus: Basic terms of Computer graphics – vector and raster graphics, pixel, dpi, rasterization, graphics file formats. Raster graphics and raster graphics editors (Paint.Net, Gimp). Environment of the graphics editor: design area, tool palette, status line, color palette, selection tools. Work with drawing tools: paintbrush, pencil, eraser, magic wand, paint bucket, clone stamp, recolor, text tool. Drawing filled and unfilled rectangles (squares) and ellipses (circles). Object selection and deselection, resize, translation, rotation, crop. Work with text: insert and edit text. Editing digital images: resize, canvas size, rotation, retouch. Sharpening tools, blur tools, darkening and lightening tools, coloring tools, brightness and contrast, color balance. Work with layers: add and delete layers, layer selection, layer properties. Selection tools: rectangle select, ellipse select, operations on selections. Work with filters.	
Literature: SOBOTA, B. – MILIÁN, J.: Grafické formáty. České Budějovice : Kopp. 1996. 157 s. ISBN 978-80-85828-58-8. ŽÁRA, J.: Moderní počítačová grafika : kompletní průvodce metodami 2D a 3D grafiky. Brno : Computer Press, 2010. 608 s. ISBN 978-80-251-0454-0.	

BUDAI, A.: A számítógépes grafika. Budapest : LSI Oktatóközpont, 2002. 390 s. ISBN 978-963-5772-43-2.
SZIRMAY-KALOS, L.: Számítógépes grafika. Budapest : ComputerBooks. 2003, 334 s. ISBN 978-963-6182-08-6.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 202

A	B	C	D	E	FX
65.84	26.24	6.44	0.5	0.99	0.0

Teacher: Dr. habil. József Zoltán Kató, DSc., RNDr. Štefan Gubo, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ HW/15	**Name:** Počítačový hardvér
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 0 / 2 **For the study period:** 0 / 0 / 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 2.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
Notes:	

Evaluation of subjects

Total number of evaluated students: 145

A	B	C	D	E	FX
32.41	18.62	15.86	12.41	13.79	6.9

Teacher: Dr. habil. András Molnár, PhD.
Date of last update: 19.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KMI/Idb/ IS/15	**Name:** Informačná spoločnosť

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 0 / 1 / 1 **For the study period:** 0 / 13 / 13
Methods of study: present

Number of credits: 2

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:

Results of education:

Brief syllabus:

Literature:

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

Notes:

Evaluation of subjects
Total number of evaluated students: 1

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

Teacher: Dr. Gábor Kiss, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ OBP/15	**Name:** Bachelor Thesis
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:	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
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: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KMI/Idb/ OS/15	**Name:** Operating Systems

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 1 / 0 / 2 **For the study period:** 13 / 0 / 26
Methods of study: present

Number of credits: 5

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
The course is finished by an exam. For assessment A should be obtained at least 90 percent, for assessment B at least 80 percent, for assessment C at least 70 percent, for assessment D at least 60 percent, for assessment E at least 50 percent. Credits will not be granted to students who obtain less than 50 percent.

Results of education:
After successfully completing the course the student is familiar with basic structures and functions of operating systems, user interfaces, the work in an operating system UNIX and Windows. He masters the operating system of single-user computers: 16-bit, 32 and 64-bit operating systems, processes, memory, file system, as well as the corresponding system terms of these functions. He learns the basic methods and algorithms used in the design and construction of operating systems that he can use in his practice.

Brief syllabus:
Introduction to the Operating systems, basic terms. History and classification of operating systems. Architecture of operating systems. Programming and user interface. Managing files and directories - name and file attributes. User rights, work with files and directories. Management and structure of disk devices. Management of resources. Management of processors and processes. Parallel processes - planning, communication and synchronization. Management of memory. Virtual memory management, memory segmentation.

Literature:
ÁCS, Z.: Linux operációs rendszer. Budapest 2004, ComputerBooks, 232 s. ISBN 9636183198.
ADAMIS, G.. – KNAPP, G..: Operációs rendszerek. Budapest : LSI Oktatóközpont, 2002, s. 278. ISBN 963 577 251 3.
CSERNY, L.: Mikroszámítógépek. Budapest : LSI Oktatóközpont, 2003, s. 330. ISBN 963 577 188 6.
DAHMKE, M.: Mikroszámítógépek operációs rendszerei. Budapest, 1986, Műszaki Könyvkiadó, 199 s. ISBN 963 10 6850 1.
KÓCZY, A. – KONDOROSI, K.: Operációs rendszerek mérnöki megközelítésben. Budapest : Panem Kiadó, 2000. ISBN 963 545250 0.

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

Hungarian language, Slovak language

Notes:

Evaluation of subjects
Total number of evaluated students: 244

A	B	C	D	E	FX
16.39	22.54	17.62	20.08	18.44	4.92

Teacher: prof. Dr. Annamária Várkonyiné Kóczy, DSc., Ing. Ondrej Takáč, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ OT/15	**Name:** Technical terminology
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 2 / 0 **For the study period:** 0 / 26 / 0 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 1.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: During the semester students study the original information resources of computer science and informatics from relevant books and Internet sources. Attention is drawn to the frequent terminological errors and deficiencies in computer science and information technology. Students are working on their final thesis throughout the semester. At the beginning of the semester is clearly defined input and method of classification. Students present their semester works in front of their classmates, after which is included a discussion. During the semester is monitored also student activity in the seminars. Active students receive a bonus, which is added to the overall assessment of the student. The course is ended classified credit. Classification is determined by the quality of semester work and its presentation level, with the addition of the bonus obtained per semester. Students must get at least the 50% score for granting credits for the subject. For obtaining the classification A must be obtained at least 90%, at least 80% for B, for C at least 70%, at least 60% for D, for E at least 50%. The student has the opportunity to improve the classification by correcting or reprocessing of their semester work.	
Results of education: During the semester the students become familiar with the terminology as a scientific discipline interdisciplinary nature of its basic rules and laws and to acquire basic literacy and culture terminology. The main focus is on ideal and real terms comparison and terminology of the area of Informatics, the source of terminological information, acquisition of competence for independent terminology work and terminology common errors and deficiencies in the multilingual context.	
Brief syllabus: Introduction to the scientific and technical terminology. Basic terminology of common terminology as a scientific discipline. Terminological literacy and culture of scientist informatics. Properties of an ideal term. Properties of real terms. Terminological system of Informatics. Special aspects of the terms (educational, etymological, intercultural et al.). Ways of creating terms and taking over the terms from other languages. Influence of English language to terminology of Informatics. Terminological resources of information and their assessment.	

Normalisation and growing of terminology.
The most commonly terminological errors and deficiencies in the presentations.
Terminological work of scientist informatics in lifelong practice.

Literature:

1. BALÁZS, G.: Informatikai technológia és nyelvhasználat : Válogatás a Nemzeti Kulturális Örökség Minisztériuma anyanyelvi pályázatából. 1. vyd. Budapest : Trezor kiadó, 2002. 247 s. ISBN 963 9078 60 9.
2. BÁRTFAI, B.: Az információ technológiai alapfogalmai : ECDL. Budapest : BBS-INFO, 2003. 146 s. ISBN 9638623209.
3. DANCSÓ, T.: Az informatika alapjai. Budapest : Kossuth, 2000. 144 s. ISBN 963 09 4157 0.
4. Dési, I. – Nagy, I.: Informatikai fogalmak kisszótára. Budapest : Korona, 2001. 248 s. ISBN 9639376167.
5. FAZEKAS, K.: Angol nyelvű számítástechnikai olvasókönyv. Budapest : Számalk, 2002. 96 s. ISBN 963553356X.
6. KECSKÉS, Zs. - SZLÁVI, P.: Számítástechnikai szótár. Budapest : Kossuth, 1999. 208 s. ISBN 9630941023.
7. KIS, Á.: Mi micsoda magyarul a számítástechnikában. Budapest : Alfaprint Nyomdaipari Kisszövetkezet, 1986. 172 s. ISBN 9633330165x.
8. KIS, B. – KIS, Á.: Angol - magyar informatikai fordítói szótár. Bicske : Szak, 2003. 214 s. ISBN 9639131490.
9. KOVÁCS, M.: Bevezetés a Számítástechnikába. Budapest : LSI Oktatóközpont, 2002. 368 s. ISBN 963 577 270 X.
10. KOVÁTS, L. - SZEKERKE, T. – SZÉLl, B.: A számítógépes grafika kisszótára. VIRGIL, 2000. 196 s. ISBN 9630050412.
11. KÖVEGY, A. - MANDEL, Gy. – ZOLNAI, M.: Internet kisszótár. Budapest : Kossuth, 2003. 144 s. ISBN 9630939045.
12. LUKÁCS, J.: A lyukszalagtól az informatikáig. KFKI, 2003. 160 s. ISBN 9639276324.
13. PERÉNYI, M.: Hardver. Budapest : Typotex Elektronikus Kiadó Kft., 2003. 132 s. ISBN 9639326089.
14. SOBIESKI, A.: Angol-Magyar számítástechnikai szótár. Distance, 2003. 208 s. ISBN 9630060256.
15. STOFFA, V.: Az informatika alapjai I. (Základy informatiky). Apáczai közalapítvány, 2007. 268 s. ISBN 978-80-89234-29-5.
16. STOFFOVÁ, V. - CZAKÓOVÁ, K. – VÉGH, L. XXV. DIDMATTECH 2012 : ABSTRACTS - ABSTRAKTY. 1. vyd. Brno : Librix, 2012. 102 s. ISBN 978 80 8122 045 6.
17. STOFFOVÁ, V. - MASTALERZ, E. – NOGA, H. XXIV DIDMATTECH 2011 : Problems in teachers education . 1. vyd. Krakow : Institute of Technology, 2011. 270 s. ISBN 978-83-7271-679-8.
18. STOFFOVÁ, V.: Az informatika alapjai II. : A számítógépes hálózatok. 1. vyd. Komárno : UJS, 2010. 140 s. ISBN 978-80-89234-65-3.
19. STOFFOVÁ, V.: Informatika. Informačné technológie a výpočtová technika. Nitra : Prírodovedec, 2001. 230 s. ISBN 80-8050-450-4.
20. STOFFOVÁ, V.: Počítač univerzálny didaktický prostriedok. 1. vyd. Nitra, 2004. 173 s. ISBN 80 8050 765 1.
21. ŠIMOVÁ, V.: Nemecko-slovenský Slovensko-nemecký slovník z knižnienej vedy a informatiky. Martin : Matica slovenská, 1980. 416 s. ISBN 0004420.
22. Conference books: Termina, DIDMATTECH a i.

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

Notes:
none

Evaluation of subjects
Total number of evaluated students: 238

A	B	C	D	E	FX
38.66	23.95	15.55	9.66	7.56	4.62

Teacher: PaedDr. Krisztina Czakóová, PhD.

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PEI/15	**Name:** Právo a etika pri využívaní IKT
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 2 / 0 **For the study period:** 0 / 26 / 0 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 6.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
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: prof. Ing. Veronika Stoffová, CSc., PaedDr. Ákos Valent
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PER/15	**Name:** Periférne zariadenia počítačov
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 0 / 1 **For the study period:** 13 / 0 / 13 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 3.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
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. András Molnár, PhD., PaedDr. Ladislav Végh
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PP/15	**Name:** Propaedeuticsof programming
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 0 / 2 **For the study period:** 0 / 0 / 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 2.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: During the semester students gain experience in programming in the microworld Imagine Logo and create custom animation in a graphical environment LogoMotion. Students from the mid-semester independently solve the programming tasks - semestral project of which outcome should be an own didactical project in Imagine. During the semester, students have the opportunity to consult his project (phase of creation) with teacher. At the end of the semester they submit the finished educational software (the electronic version), that is evaluated. Students must before classmates present and defend their project by an open discussion. Students are classified according to the average obtained in the overall assessment of the continuous preparing during the semester (50%) and according to the project (50%). For obtaining the classification A must be obtained at least 90% share of average, at least 80% for B, for C at least 70%, at least 60% for D, for E at least 50%. Credits for subject will not be assigned for the student, who is not at least 50% successful of the individual parts.	
Results of education: After successful completion of the course the student acquire an overview about the possibilities of teaching programming at the different types schools and levels of education through children's programming languages (microworlds), which can help in developing algorithmic thinking and acquire programming experiences in a playful way.	
Brief syllabus: • Teaching programming at different levels and degrees of education. • Place children's programming languages in the educational process. • Turtle Graphics - turtle, animated turtle. • LogoMotion - animation, timing, phase of turtles. • Basic control commands and elements of the program Imagine. • Data types - variables, texts, buttons and work with them. • Commands for the individual objects. • Sub-programs - their own procedures. • Events of individual objects, event response. • Conditions for process control. • Overlapping of objects, object testing. • Multimedia options of the Imagine environment - working with the sound and video.	

• Planning and implementation of projects - didactical applications.

Literature:

1. FARKAS, K.: ComLogo példatár : Tematikus feladatsor a Logo tanuláshoz . Gyula : APC-Stúdió BT., 2004. 120 s. ISBN 963 9135 70 4.
2. STOFFA, V.: Algoritmizáció és programozás. (Algoritmizácia a programovanie) 1. kiadás, Komárom : Selye János Egyetem, Tanárképző Kar, 2005. 174 s. ISBN 80-969251-7-2.
3. TÓTH, P.: Gondolkodásfejlesztés az informatika oktatásban. Ligatura, 2004. 60 s. ISBN 9638611324xy.
4. VANKÓ, P.: Érdekes feladatok és játékok gyűjteménye mikrovilág környezetben. (Zbierka zaujímavých úloh a hier v prostredí Imagine). Komárno : Selye János Egyetem, 2010. DM.3784-PF.10.30A.6D. 43 s.
5. http://imagine.elte.hu/ [online]
6. http://imagine.infovek.sk [online]
7. http://logo.sulinet.hu/ [online]

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

Notes:
none

Evaluation of subjects
Total number of evaluated students: 137

A	B	C	D	E	FX
36.5	19.71	11.68	8.03	14.6	9.49

Teacher: PaedDr. Krisztina Czakóová, PhD.

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PR1/15	**Name:** Programming 1
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 2 / 0 / 2 **For the study period:** 26 / 0 / 26 **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 1.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: During the semester, students write two practical assessments. Students also solve some programming projects individually at home. The activity of students in classes is also taken into consideration, so students can get plus points. In practical assessments and programming project students need to achieve a minimum of 50%. Using all these assessments, the teacher of seminars prepare students continuous evaluation. The exam consists of a practical and theoretical programming tasks. Students in exam have to reach also a minimum of 50%. The final grade is calculated as a mean of continuous evaluation and exam mark. For the classification A at least 90%, for B at least 80%, for C at least 70%, for D at least 60%, and for E at least 50% must be obtained. Those students, who did not achieve the minimum 50% from any part, do not finish the course successfully.	
Results of education: After successful completion of course, students will know the fundamentals of structural programming, will be able to write algorithms as sequence of logical steps to different problems, draw flowcharts, and rewrite them into programs. Students will have experiences in the usage of programming environment, practice in programming using standard control structures and functions.	
Brief syllabus: • Algorithmization - Basic features of algorithms, forms of creating and expressing algorithms. • Oral and graphical expression of algorithms. • Basic elements of algorithms, and their usage. • Programming - The structure of programs in programming language. Syntax and semantics. • Data types, representation of standard data types in the programming language. • Standard data structures, basic commands. • Standard functions and procedures. • Programming, solving tasks (sorting algorithms). • Procedures and functions: hierarchy of program structure. Defining own functions. Global and local variables. • Procedures with and without parameters. • Extending the concept of data types using additional standard types and structures, their importance in solving problems (enumerated types, sets, files, etc.).	

• The file, as useful tool of exchanging data between programs and their environment. The structure of files, declaration of files, file types, accessing files, operation on files.
• Standard procedures for processing files. Methods of file handling.
• Complex solution of problems.

Literature:

1. STOFFA, V.: Algoritmizáció és programozás. (Algoritmizácia a programovanie). 1. vyd. Komárno : Univerzita J. Selyeho v Komárne, 2005. 174 s. ISBN 80-969251-7-2.
2. BENKŐ, T.: Programozzunk Turbo Pascal nyelven ! Kezdőknek, középhaladóknak. Budapest : ComputerBooks, 2005. 556 s. ISBN 9636183236.
3. BENKŐ, L. at all.: Objektum orientált programozás Turbo Pascal nyelven 7. Budapest : ComputerBooks, 1997. 238 s. ISBN 9636181527.
4. BENTLEY, J.: Programming Pearls. 1. vyd. New York : ACM Press, 2000. 240 s. ISBN 0-201-65788-0.
5. MOLNÁR, Cs.: Programozás Turbo Pascal nyelven. (Programovanie v jazyku Turbo Pascal). Budapest : BBS-INFO, 2001. 234 s. ISBN 963 03 7152 9.
5. PONGOR, Gy.: Szabványos Pascal programozás és algoritmusok. (Štandardné programovanie v Pascale a algoritmy). Budapest : Műszaki könyvkiadó, 2002. 424 s. ISBN 9631625737.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 432

A	B	C	D	E	FX
15.05	12.27	15.74	21.53	25.23	10.19

Teacher: Dr. habil. József Zoltán Kató, DSc., PaedDr. Ladislav Végh

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PR2/15	**Name:** Programming 2
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 2 / 0 / 2 **For the study period:** 26 / 0 / 26 **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 2.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: The course ends with exam, where students can get 100 points. For the classification A at least 90 points, for B at least 80 points, for C at least 70 points, for D at least 60 points, and for E at least 50 points must be obtained.	
Results of education: After the successful accomplishment of the course, students will understand the concept of dynamic variable, dynamic data structures, and their implementation in the given programming language. They will acquire knowledge about the searching and sorting algorithms. Furthermore, students will be acquaint with various programming techniques.	
Brief syllabus: • Procedures and functions, creating own procedures and functions. • Data structures: set, record, enumerated type. • Using files: text files, typed binary files, untyped binary files. • Standard modules: System, Dos, Crt, Graph, String. • Special algorithms: Sorting, as an example for finding an effective algorithm: insertion sort, selection sort, bubblesort, binary insertion sort, shaker sort, lexicographic sort, merge sort, heapsort.... • Sorting files. • Programming techniques: Recursion. Recursive sorting algorithms: quicksort, merge sort. Comparing complexity of sorting algorithms. • Programming techniques: backtracking, iterative algorithms • Graph unit: graphic mode and its parameters (graphic driver, graphic mode and color depth, initializing graphic mode), procedures and functions of the graph unit, and their usage. • Graph, Winmouse units: Creating simple animations, using mouse (Winmouse unit). • Dynamic types and data structures: concept of dynamic variable, its representation in the computer's memory. Examples of dynamic data structures: linked list, stack, queue, and their usage in programming. • Implementing standard data structures (shift register, single linked list, double linked list, cyclic list, tree structure, net structures. Using appropriate data structure for simplifying the solution of problems.	

• Developing software products: from top to bottom, from bottom to top, functional and procedural programming, modular programming, creating units, Jackson method.
• Developing of software systems: Rules of developing programs: analyzing the problem, redefining problems, dividing problems into smaller parts, etc. Methods of developing software projects, and their characterization. Collaborating and managing a programming group.

Literature:

1. STOFFOVÁ, VERONIKA: ALGORITMIZÁCIÓ ÉS PROGRAMOZÁS I. Univerzita J. Selyeho, Komárno, 2005. ISBN 80-969251-7-2.
2. WIRTH, NIKLAUS: ALGORITMY A ŠTRUKTÚRY ÚDAJOV. Alfa, Bratislava, 1987. ISBN 80-05-00153-3.
3. MOLNÁR, CSABA: PROGRAMOZÁS TURBO PASCAL NYELVEN. BBS-INFO, Budapest, 2001. ISBN 963-0371-52-9.
4. ANGSTER, ERZSÉBET: PROGRAMOZÁS TANKÖNYV II.: STRUKTURÁLT TERVEZÉS TURBO PASCAL. 4KÖR Bt., Budapest, 2003. ISBN 963-4509-57-6.
5. PONGOR, GYÖRGY: SZABVÁNYOS PASCAL: PROGRAMOZÁS ÉS ALGORITMUSOK. Műszaki könyvkiadó, Budapest, 2003. ISBN 963-1625-73-7.
6. VÉGH, LADISLAV: PASCAL II. Komárno, 2004-2013. Dostupné na adrese: <http://prog.ide.sk/pas2.php>
7. STOFFOVÁ, Veronika – CZAKÓOVÁ, Krisztina – VÉGH, Ladislav: Programozás a gyakorlatban : Algoritmizáció és programozás II. Komárno : Univerzita J. Selyeho, 2015, 1. vyd. 124 s. ISBN 978-80-8122-146-0.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 572

A	B	C	D	E	FX
12.06	12.41	15.91	21.33	20.98	17.31

Teacher: Dr. habil. József Zoltán Kató, DSc., PaedDr. Ladislav Végh

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PR3/15	**Name:** Programming 3
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 1 / 0 / 2 **For the study period:** 13 / 0 / 26 **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 3.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: The course ends with exam, where students can get 100 points. For the classification A at least 90 points, for B at least 80 points, for C at least 70 points, for D at least 60 points, and for E at least 50 points must be obtained.	
Results of education: After the successful accomplishment of the course, students will be familiar with the visual, event-driven programming, and developing applications with graphical user interface under the modern operating systems. Furthermore, students will have knowledge about creating software products in visual environments, and will have fundamental knowledge needed for deeper understanding of object-oriented programming.	
Brief syllabus: • Programming under Windows operating system, review of programming languages, visual, event-driven programming. • Basic components and events, properties of components. • Object oriented programming, classes and objects, attributes and methods. • Constructor, destructor, visibility modifiers (public, private, protected). • Objects, inheritance, polymorphism, virtual, dynamic, and abstract methods. • Compatibility and casting classes. • Objects that are available for creating a simple application. • Graphics, drawing on canvas, creating simple animations. • Handling files, saving preferences into ini files and registers. • Standard dialogs (OpenDialog, SaveDialog, FontDialog, ColorDialog, ...). • Using more windows in an applications, developing SDI and MDI applications. • Events of the operating system, messages, reactions to the events of the operating system. • OOP in practice – practical examples, runtime creating of visual objects. • User requirements and taking them into consideration, written and unwritten rules of software development. • Testing software products, copyright, copyright protection.	
Literature: 1. VÉGH, L.: PROGRAMOZÁS DELPHI-BEN I. KOMÁRNO : UNIVERZITA J. SELYEHO, 2012. ISBN 3. 978-80-8122-050-0.	

2. VÉGH, L.: PROGRAMOZÁS DELPHI-BEN II. KOMÁRNO : UNIVERZITA J. SELYEHO, 2012. ISBN 978-80-8122-051-7.
3. LAZARUS DOCUMENTATION. 2014. http://wiki.freepascal.org/Lazarus_Documentation
4. CANTÚ, M.: DELPHI 7 MESTERI SZINTEN I. KÖTET. BUDAPEST : KISKAPU, 2003, S. 638. ISBN 963-9301-66-3.
5. KADLEC, V.: DELPHI K OKAMŽITÉMU POUŽITÍ – HOTOVÁ ŘEŠENÍ. BRNO : CP BOOKS, 2005, S. 312. ISBN 80-251-0017-0.
6. BENKŐ, L. – BENKŐ, T. – POPPE, A.: OBJEKTUM-ORIENTÁLT PROGRAMOZÁS C++ NYELVEN. BUDAPEST : COMPUTERBOOKS, 2002, S. 378. ISBN 963-6182-70-1.
7. ANGSTER, E.: OBJEKTUMORIENTÁLT TERVEZÉS ÉS PROGRAMOZÁS JAVA. BUDAPEST, 4KÖR, 2003. ISBN 963-0062-63-1.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 469

A	B	C	D	E	FX
20.26	14.71	14.93	18.12	23.03	8.96

Teacher: Dr. habil. András Molnár, PhD., PaedDr. Ladislav Végh

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KMI/Idb/ PR4/15	**Name:** Programming 4

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 0 / 0 / 2 **For the study period:** 0 / 0 / 26
Methods of study: present

Number of credits: 2

Recommended semester/trimester of study: 4.

Level of study: I.

Prerequisites:

Conditions for passing the subject:

Results of education:

Brief syllabus:

Literature:

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

Notes:

Evaluation of subjects
Total number of evaluated students: 295

A	B	C	D	E	FX
24.07	20.0	19.66	16.95	16.61	2.71

Teacher: PaedDr. Ladislav Végh

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PR5/15	**Name:** Programming 5
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 2 / 0 **For the study period:** 0 / 26 / 0 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 6.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
Notes:	

Evaluation of subjects

Total number of evaluated students: 130

A	B	C	D	E	FX
26.15	20.77	27.69	8.46	14.62	2.31

Teacher: Sándor Szénási, PhD.
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ PS/15	**Name:** Computer networks
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 2 / 0 / 1 **For the study period:** 26 / 0 / 13 **Methods of study:** present	
Number of credits: 5	
Recommended semester/trimester of study: 6.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
Notes:	

Evaluation of subjects

Total number of evaluated students: 401

A	B	C	D	E	FX
9.73	11.97	25.19	19.45	23.44	10.22

Teacher: prof. Dr. Imrich Okenka, PhD., Dániel Zoltán Stojcsics, PhD.
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ TAP/15	**Name:** Tvorba aplikácií
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 0 / 2 **For the study period:** 0 / 0 / 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 4.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
Notes:	

Evaluation of subjects

Total number of evaluated students: 322

A	B	C	D	E	FX
33.85	26.4	19.88	11.49	3.42	4.97

Teacher: Sándor Szénási, PhD.
Date of last update: 29.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ TAZ/15	**Name:** Algorithm and Complexity Theory

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 2 / 1 / 0 **For the study period:** 26 / 13 / 0
Methods of study: present

Number of credits: 5

Recommended semester/trimester of study: 5.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
During the semester will be held two written tests by 20 points. The course is finished by an exam where it is possible to obtain 60 points. For assessment A should be obtained at least 90 points, for assessment B at least 80 points, for assessment C at least 70 points, for assessment D at least 60 points, for assessment E at least 50 points. Credits will not be granted to students who obtain less than 50 points.

Results of education:
At the end of the course, students will obtain an overview of the basic concepts of Algorithm and Complexity Theory. They will be familiar with sorting algorithms, mathematical models of computers, complexity classes and algorithmically unsolvable problems.

Brief syllabus:
Algorithm, properties of algorithms.
Correctness of algorithms, proving correctness of algorithms.
Complexity of algorithms – time and space complexity. Asymptotic complexity.
Algorithms for searching in sorted array. Linear and Binary search.
Sorting algorithms and their complexity: Bubble Sort, Insertion Sort, Binary Insertion Sort, Selection Sort.
Sorting algorithms and their complexity: Merge Sort, Quick Sort, Heap Sort.
Sorting algorithms and their complexity: Counting Sort, Radix Sort, Bucket Sort.
Hash tables and their use. Hash functions.
Mathematical models of computers: Turing machine.
Mathematical models of computers: RAM
Computation Theory - recursively enumerable and recursive languages, and partial recursive and recursive functions. Church–Turing thesis.
Complexity classes P and NP. NP-complete problems. The NPC class.
Algorithmically unsolvable problems, the Halting problem for Turing machines.

Literature:
WIRTH, N.: Algoritmy a štruktúry údajov. Bratislava : Alfa, 1989. 488 s. ISBN 80-05-00153-3.
RÓNYAI, L. – IVANYOS, G. – SZABÓ, R.: Algoritmusok. Budapest : Typotex, 2005. 350 s. ISBN 978-963-2790-14-5.

CORMEN, T. H. – LEISERSON, CH. E. – RIVEST, R. L.: Algoritmusok. Budapest : Műszaki Könyvkiadó, 2003. 884 s. ISBN 978-963-1630-29-9.
CORMEN, T. H. – LEISERSON, CH. E. – RIVEST, R. L. – STEIN, C.: Új algoritmusok. Budapest : Scolar Kft., 2003. 992 s. ISBN 978-963-9193-90-1.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 244

A	B	C	D	E	FX
26.64	8.61	18.85	17.62	21.72	6.56

Teacher: Dr. habil. József Zoltán Kató, DSc., RNDr. Štefan Gubo, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ TFJ/15	**Name:** Theory of Formal Languages

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 1 / 2 / 0 **For the study period:** 13 / 26 / 0
Methods of study: present

Number of credits: 5

Recommended semester/trimester of study: 4.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
During the semester will be held two written tests by 20 points. The course is finished by an exam where it is possible to obtain 60 points. For assessment A should be obtained at least 90 points, for assessment B at least 80 points, for assessment C at least 70 points, for assessment D at least 60 points, for assessment E at least 50 points. Credits will not be granted to students who obtain less than 50 points.

Results of education:
At the end of the course, students will obtain an overview of the basic concepts of Theory of Formal Languages and Automata. They will be able to create regular and context-free grammars, finite and push-down automata.

Brief syllabus:
Introduction to the Theory of Formal Languages and Automata, basic terms.
The Chomsky hierarchy of grammars, the Chomsky hierarchy of languages.
Regular languages – basic terms.
Nondeterministic and deterministic finite automata.
Connection between regular grammars and finite automata.
Regular expressions.
Pumping lemma for regular languages.
Context-free languages – basic terms.
Push-down automata, nondeterminism of push-down automata.
Equivalence between context-free languages and push-down automata.
Pumping lemma for context-free languages.
Top-down parsing, bottom-up parsing.

Literature:
GUBO, Š.: Formális nyelvek és automaták. Komárno : Univerzita J. Selyeho, 2015. 131 s. ISBN 978-80-8122-148-4.
DEMLOVÁ, M. – KOUBEK, V.: Algebraická teorie automatů. Praha : SNTL, 1990., 288 s. ISBN 978-80-03-00348-2.
BACH, I.: Formális nyelvek. Budapest : Typotex, 2002. 227 s. ISBN 978-963-9132-92-6.
FÜLÖP, Z.: Formális nyelvek és szintaktikus elemzésük. Szeged : Polygon, 1999. 124 s. ISSN 1417-0590.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 300

A	B	C	D	E	FX
13.33	11.33	22.0	14.67	17.33	21.33

Teacher: Dr. habil. József Zoltán Kató, DSc., RNDr. Štefan Gubo, PhD.

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ TP/15	**Name:** Spreadsheet applications
Types, range and methods of educational activities: **Form of study:** Lecture / Seminar / Practical **Recommended extent of course (in hours):** **Per week:** 0 / 0 / 2 **For the study period:** 0 / 0 / 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 4.	
Level of study: I.	
Prerequisites:	
Conditions for passing the subject: The course is finished by a written test where it is possible to obtain 100 points. For assessment A should be obtained at least 90 points, for assessment B at least 80 points, for assessment C at least 70 points, for assessment D at least 60 points, for assessment E at least 50 points. Credits will not be granted to students who obtain less than 50 points.	
Results of education: At the end of the course, students will be able to create and edit spreadsheets, use mathematical, statistical, text, financial, searching and database functions, create and edit charts, and protect cells, worksheets and workbooks.	
Brief syllabus: Introduction, basic terms. Work with cells and worksheets. Creating and editing simple spreadsheets. Creating and editing charts. Usage of formulas and functions, Function Wizard. Date and time functions. Mathematical and statistical functions. Text and financial functions. Searching and database functions. Tools for sorting and filtering data. Protection of cells, worksheets and workbooks.	
Literature: PECINOVSKÝ, J. Excel 2007 v příkladech. Praha : Grada, 2009. 166 s. ISBN 978-80-247-3138-4. BÁRTFAI, B.: Táblázatkezelési gyakorlatok. Budapest : BBS-INFO, 2003. 176 s. ISBN 978-963-863-920-2. LÉVAYNÉ LAKNER, M.: Excel táblázatkezelő a gyakorlatban. Budapest : ComputerBooks, 2002. 150 s. ISBN 978-963-618-228-0. LÉVAYNÉ LAKNER, M.: Excel 2003 táblázatkezelés és programozás a gyakorlatban. Budapest : ComputerBooks, 2007. 240 s. ISBN 978-963-618-344-9. STOFFA, V. – CSÍZI, L. – SZŐKÖL , I. – TÓTH, K. – VÉGH, L.: Az informatika alapjai I. Komárno : Univerzita J. Selyeho, 2007. 268 s. ISBN 978-80-89234-29-5.	

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

Notes:
Hungarian, Slovak

Evaluation of subjects
Total number of evaluated students: 174

A	B	C	D	E	FX
55.75	31.61	8.05	3.45	1.15	0.0

Teacher: RNDr. Štefan Gubo, PhD.

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ TPS/15	**Name:** Educational Software Development

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 1 / 0 / 2 **For the study period:** 13 / 0 / 26
Methods of study: present

Number of credits: 4

Recommended semester/trimester of study: 6.

Level of study: I.

Prerequisites:

Conditions for passing the subject:
Students during the semester independently solve a programming tasks - semestral project of which outcome should be an own educational software. During the semester, students have the opportunity to consult his project (phase of creation) with teacher. At the end of the semester they submit the finished educational software (the electronic version and the instructions for use), that is evaluated. Students must get at least the 50% of the total evaluation, to be allowed to pass the examination. The exam is combined and consists of practical part - presentation of the finished educational software and verification of theoretical knowledge from creation of educational software. The students, to be classified, must be also successful at least 50% on the exam. Students are classified according to the average obtained in the overall assessment of the continuous preparing (semestral project) during the semester (50%) and according to the exam (50%). For obtaining the classification A must be obtained at least 90% share of average, at least 80% for B, for C at least 70%, at least 60% for D, for E at least 50%. Credits for subject will not be assigned for the student, who is not at least 50% successful of the individual parts.

Results of education:
After successful completion of this course the students are proficient in basic of creation of educational software, they are able to select the right algorithm for solving the problem, they know the pedagogical and psychological aspects of creation of educational software. They are aware of the features of the computer in different forms and phases of learning and are able to choose and skillful use appropriate programming environment (optionally also combine different environments) for the creation of educational software for some topic. They master rules for a correct creation of software product documentation.

Brief syllabus:
• Computer options in different forms and phases of learning,
• presenting the educational content - computer skills,
• Computer based knowledge testing,
• the possibility of creating animation in different programming languages,
• the possibility of creating an interactive user interface,
• multimedia options in the learning process,
• pedagogical and psychological aspects of creation of educational software,

• comparison of the specifics of the first, the second level of elementary school and secondary schools,
• choice of the appropriate topic for educational software based on consultation with teachers in praxis,
• implementation of educational software,
• rules for a correct creation software product documentation,
• testing of final products in real conditions.

Literature:

1. ANGSTER, E.: Az objektumorientált tervezés és programozás alapjai. Budapest : Akadémiai, 2000. 312 s.ISBN 9636508186.
2. BENKŐ, L. at all: Objektum orientált programozás Turbo Pascal nyelven 7. Budapest : ComputerBooks, 1997. 238 s. ISBN 9636181527.
3. CHAPMAN, N. - CHAPMAN, J.: Digitel multimedia: Second Edition, 2003. 700 s. ISBN 0470858907.
4. KADLEC, V.: Učíme se programovat v Delphi a jazyce OBJECT PASCAL. Brno : Computer Press, 2002. 290 s. ISBN 8072262459.
5. MCCARTHY, J.: Softwarové projekty. 1. vyd. Praha : Computer Press, 1999. 190 s. ISBN 80-7226-164-0.
6. MCCARTHY, J.: Softwarové projekty. Brno : Computer Press, 1999. 190 s. ISBN 8072261940.
7. STOECKER, M.: Developing Wisndows-Based Applicatoins with Microsft. Microsoft .net, 2003. 600 s. ISBN 0735619263.
8. STOFFOVÁ, V.: Informačné technológie a výpočtová technika. Prírodovedec, Nitra, 2001. ISBN 80-8050-450-4.
9. SZIRMAY-KALOS, L. - LÁSZLÓ, Z. – KONDOROSI, K.: Objektum-orientált szoftverfejlesztés. Budapest : ComputerBooks, 2001. 427 s. ISBN 963 618 108 X.
10. SZIRMAY-KALOS, L. Háromdimenziós grafika, animáció és játékfejlesztés. Budapest : ComputerBooks, 2004. 486 s. ISBN 9636183031.
11. VÁMOSSY, Z.: Delphi a gyakorlatban. Bicske : Szak, 2002. 132 s. ISBN 963 9131 22 9.
12. VÉG, Cs.: Alkalmazásfejlesztés : a Unified Modeling Language szabványos jelöléseivel. Debrecen : Logos 2000, 1999. 246 s. ISBN 963 03 7660 1.

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

Notes:
none

Evaluation of subjects
Total number of evaluated students: 279

A	B	C	D	E	FX
22.94	31.9	14.34	12.19	7.89	10.75

Teacher: prof. Ing. Veronika Stoffová, CSc., PaedDr. Krisztina Czakóová, PhD., PaedDr. Ladislav Végh

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMI/Idb/ UDI/15	**Name:** Introduction to Informatics

Types, range and methods of educational activities:
Form of study: Lecture / Seminar / Practical
Recommended extent of course (in hours):
Per week: 1 / 1 / 0 **For the study period:** 13 / 13 / 0
Methods of study: present

Number of credits: 3

Recommended semester/trimester of study: 1.

Level of study: I.

Prerequisites:

Conditions for passing the subject:

Results of education:

Brief syllabus:

Literature:

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

Notes:

Evaluation of subjects
Total number of evaluated students: 260

A	B	C	D	E	FX
15.77	13.08	15.38	17.69	29.62	8.46

Teacher: Dr. habil. Attila Elemér Kiss, CSc.

Date of last update: 19.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KMI/Idb/ŠSBc/15	**Name:** Informatics

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:

Level of study: I.

Prerequisites: KMI/Idb/PR1/15 and KMI/Idb/UDI/15 and KMI/Idb/DM/15 and KMI/Idb/PR2/15 and KMI/Idb/AP/15 and KMI/Idb/PR3/15 and KMI/Idb/DS1/15 and KMI/Idb/TFJ/15 and KMI/Idb/OS/15 and KMI/Idb/TAZ/15 and KMI/Idb/PS/15 and KMI/Idb/TPS/15

Conditions for passing the subject:

Results of education:

Brief syllabus:

Literature:

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

Notes:

Evaluation of subjects
Total number of evaluated students: 1

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

Teacher:

Date of last update: 29.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/LUN/ SZ/10	**Name:** Popular religion
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: 1	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: Course final exam is based on the average mid-year gained. Rating: A - 90 to 100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%.	
Results of education: The goal is to acquaint students with problems of research of some phenomena (sacred space, a small religious monuments, pilgrimages etc.) folk piety. Introduction to research.	
Brief syllabus: Terminological issues (which are folk customs and traditions? What it is folk piety?) Historical questions. Zvykoslovné associated with human life (birth, christening, wedding, funeral). Sacral objects, sacred space, a small religious monuments. Ethnological aspects of the pilgrimage sites. Own research: the joint development of the questionnaire, the evaluation of results.	
Literature: Bálint Sándor – Barna Gábor: Búcsújáró magyarok. A magyarországi búcsújárás története és néprajza. Budapest 1994 Beňušková, Zuzana: Religiozita a medzikonfesionálne vzťahy v lokálnom spoločenstve. Bratislava 2004 Botík, Ján (red.): Obyčajové tradície pri úmrtí a pochovávaní na Slovensku s osobitným zreteľom na etnickú a konfesionálnu mnohotvárnosť. Bratislava 2001 L. Juhász Ilona: Rudna I. Temetkezési szokások és a temetőkultúra változásai a 20. században. Komárom–Dunaszerdahely 2002 /Lokális és regionális monográfiák 2./ Liszka József: Állíttatott keresztínyi buzgóságbul. Tanulmányok a szlovákiai Kisalföld szakrális kisemlékeiről. Dunaszerdahely: Lilium Aurum 2000 Verebélyi Kincső: Szokásvilág. Debrecen 2005 Voigt Vilmos: A vallási élmény története. Bevezetés a vallástudományba. Budapest 2004	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak Laguage	
Notes:	
Evaluation of subjects Total number of evaluated students: 203	

A	B	C	D	E	FX
21.67	17.24	10.84	13.3	17.24	19.7
Teacher: Dr. habil. PhDr. József Liszka, PhD.					
Date of last update: 14.06.2016					
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.					

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/ MEP2/15	**Name:** Mediálna pedagogika

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: 1

Recommended semester/trimester of study: 1.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
- Written and practical exams

Results of education:
• Skill level to use multimedia methods for the environment
• Development of Critical Thinking.
• The student uses and develops critical thinking and information literacy skills.

Brief syllabus:
1. Basics of Media Education - repeat
2nd-3rd Information literacy - Information Society
4. The crowd and the media - communication and manipulation
5th-6th Understanding analysis: moving images, text, background, image material
7th-8th Analysis of a floating text or multimedia background
9th-10th Critical Thinking
11-12. real Mao
13. Summary

Literature:
The presentation material.

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

Notes:
The development of knowledge to solve problems multimedia environment
Sensitivity to problems
resources
Projector, computer, Internet connection, pointers

Evaluation of subjects
Total number of evaluated students: 34

A	B	C	D	E	FX
0.0	5.88	47.06	8.82	38.24	0.0

Teacher: Dr. habil. Ádám István Nagy, PhD.
Date of last update: 14.06.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/ MVOL/16	**Name:** Methodology of Literature Search
Types, range and methods of educational activities: **Form of study:** Seminar **Recommended extent of course (in hours):** **Per week:** 2 **For the study period:** 26 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 2., 4., 6.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: During the semester each undergraduate have to draw up a term paper complying with the requirements (which values 30 points) and to successfully accomplish the written examination (which values 70 points). For grade A at least 90 points, for B at least 80 points, for C at least 70 points, for D at least 60 points and for E at least 50 points need to be achived.	
Results of education: The goal of the subject is to introduce the undergraduates to the basic electronic information sources and the methods of the information collecting. After fulfilling the subject the undergraduates will be capable to prepare qualitative seminar works, final essays and other scientific papers.	
Brief syllabus: 1. The library and its functions 2. Document types 3. Library catalogues and their function 4. The University Library of J. Selye University 5. Search techniques in the electronic catalogues 6. The types of bibliographies 7. E-libraries, archives 8. Literature databases 9. Web of Science, SCOPUS 10. E-sources 11. EBSCO and other available licence-based e-sources 12. Creation of bibliographic references and reference registers 13. How to prepare term papers, final essays and other scientific works	
Literature: 1. BABBIE, E. A társadalomtudományi kutatás gyakorlata. Budapest : Balassi, 2000. 2. ECO, U. Hogyan írjunk szakdolgozatot? Budapest : Gondolat, 1991. 3. FALUS, I. Bevezetés a pedagógiai kutatás módszereibe. Budapest : Műszaki Kvk., 2004. 4. KATUŠČÁK, Dušan. 1998. Ako písať vysokoškolské a kvalifikačné práce. Druhé doplnené vydanie. Bratislava : Stimul, 1998. ISBN 80-85697-82-3	

5. KATUŠČÁK, Dušan. 2005. Citovanie a zoznam bibliografických odkazov v práci. In: MEŠKO, Dušan – KATUŠČÁK, Dušan et al.: Akademická príručka. Druhé doplnené vydanie. Martin : Osveta, 2005, s. 215-238. ISBN 80-8063-200-6
6. KIMLIČKA, Štefan. 2004. Príklady citovania podľa ISO 690 a ISO 690-2 [online]. Bratislava : Katedra knižničnej a informačnej vedy FiFUK, 2004 [cit. 24. novembra 2015]. Dostupné na: < http://vili.uniba.sk/AK/citovanie_priklady.pdf>
7. Smernica rektora č. 7/2011 o úprave, registrácii, sprístupnení a archivácii záverečných prác na Univerzite J. Selyeho v Komárne. 19 s.
8. STN 01 6910: 1999. Pravidlá písania a úpravy písomností. Bratislava : Slovenský ústav technickej normalizácie.
9. STN ISO 690: 1998. Dokumentácia. Bibliografické odkazy. Obsah, forma a štruktúra. Bratislava : Slovenský ústav technickej normalizácie – Vydavateľstvo.
10. STN ISO 690-2. 2001. Informácie a dokumentácia. Bibliografické citácie. Časť 2: Elektronické dokumenty alebo ich časti. Bratislava : Slovenský ústav technickej normalizácie.
11. SZABÓ, K. Kommunikáció felsőfokon. Budapest : Kossuth, 2001.
12. TUREK, Ivan. 1999. Ako písať záverečnú prácu. 3. vydanie. Prešov : Metodické centrum Prešov, 1999. ISBN 80-8045-161-3
13. E-zdroje CVTI (http://ezproxy.cvtisr.sk/)

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

Notes:

Evaluation of subjects
Total number of evaluated students: 52

A	B	C	D	E	FX
11.54	7.69	13.46	15.38	25.0	26.92

Teacher:

Date of last update: 30.01.2017

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KBIO/ POZ/15	**Name:** Health Promoting
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 2	
Recommended semester/trimester of study: 4., 6.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: Continuous assessment of studies - 50%, oral exam - 50%. Final evaluation: A - 100 - 90% B - 89 - 80%, C - 79-70%, D - 69-60%, E - 59 - 50%. Credits are not awarded to student, who do not achieve 50%.	
Results of education: After completing the course the student knows the basic concepts, principles and programs of health promotion.	
Brief syllabus: Health behavior in children and adults in the European Union, with particular reference to Slovakia. Summary of terms and documents related to health education and health promotion. Characteristics of countrywide health promotion. Preparation of Health Promotion Programme, the role of health education by age groups.	
Literature: Pikó Bettina. 2007. A pozitív gondolkodás szerepe az egészség megtartásában. In: Kállai János, Varga József, Oláh Attila (szerk.): Egészségpszichológia a gyakorlatban Budapest, Medicina Könyvkiadó Zrt. Barabás Katalin (szerk.) (2006): Egészségfejlesztés - Alapismeretek pedagógusok számára, Medicina Könyvkiadó Zrt., 2006 Darvay Sarolta (szerk.): Tanulmányok a gyermekkori egészségfejlesztés témakörben, Eötvös Loránd Tudományegyetem, 2012, http://old.tok.elte.hu/kutatokozpont/node/42 Langford R, Bonell CP, Jones HE, Pouliou T, Murphy SM, Waters E, Komro KA, Gibbs LF,Magnus D, Campbell R. (2014): The WHO Health Promoting School framework for improving the health and well-being of students and their cademic achievement (Review), TheCochrane Library 2014, Issue 4, http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD008958.pub2/pdf	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak	
Notes:	
Evaluation of subjects	

Total number of evaluated students: 23

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

Teacher:

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ BDZ/15	**Name:** Biology child and school health

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: 1

Recommended semester/trimester of study: 1.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
Final test. Condition for successful completion of this course is to obtain at least 50% of the maximum possible assessment of the subject. Evaluation: A - 90 -100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%.

Results of education:
Students acquire basic knowledge about the human body - body composition, human ontogenesis, developmental specificities of organ systems and the basics of school hygiene.

Brief syllabus:
Morphological and functional characteristics of the human body and physical ontogeny of human, which is analyze from prenatal period to adulthood with an emphasis on teen age and young adulthood. Developmental specificities of the different organ systems. School hygiene.

Literature:
Dylevský, I.: Somatológia. Bratislava : OSVETA, 2000. - 439 s. - ISBN 80-8063-127-1
Feneis, H.: Anatomický obrazový slovník. Stuttgart : Georg Thieme Verlag, 1993. - 455s. - ISBN 80 7169 197 6
Mader, S. S.: Human biology. Wm. C. Brown Publishers, USA, Third edition 1992. 500 s. - ISBN 0-697-12333-2
McCracken, T.O.: Háromdimenziós anatómiai atlasz. Budapest : Scolar Kiadó, 2000. - 237 s. - ISBN 978-963-9193-99-4
Nagy, M.: Humánbiológia, Lilium Aurum, Dunaszerdahely, 2006, ISBN 80-8062-283-3.
Netter, F. H.: Humán anatómiai atlasz. Budapest : Medicina Könyvkiadó, 2004. - 562 s. ISBN 963 242 848 X
POSPÍŠIL, M.: Biológia človeka I. Prírodovedecká fakulta UK Praha, 1998, 340s. ISBN 80-223-1579-6
Szentágothai, J.: Funkcionális anatómia I.-III. Budapest : Medicina Könyvkiadó, 2006. - 710, 600, 800. - ISBN 963 242 565 0
Šmarda, J. a kol.: Biologie pro psychology a pedagogy. Portál, Praha, 2004.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 78

A	B	C	D	E	FX
1.28	5.13	14.1	20.51	41.03	17.95

Teacher: PaedDr. Melinda Nagy, PhD., doc. Dr. Csaba Szinetár, CSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ IKT/15	**Name:** ICT-based

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

Number of credits: 1

Recommended semester/trimester of study: 2.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
Making 2 projects during the semester , each for 25 points and the final presentation of the methodology of a selected lesson for 50 points. In order to pass the course the student needs to collect at least 50% of the maximum points. The scale of evaluation is the following: A – 90 -100%, B – 80 -89%, C – 70 -79%, D – 60 - 69%, E – 50 -59%.

Results of education:
By the completion of the course, students deepen their professional competence in the field of information and communication technologies. They will be able to locate, evaluate and use information so that they become autonomous, independent and lifelong learners. They will have the ability to locate, evaluate, use and communicate information in all their various forms, such as the integration of books, computer, the media and technology, ethics, critical thinking, information and communication skills.

Brief syllabus:
• Basic concepts of work with computers (objects, files, types, maps, addresses) • Basics of Word (copy protection, basic items, formatting) • Working with pictures, WordArt, ClipArt - special text effects • Basics of graphical environment Paint (copy protection, basic controls) • Introduction to digital technology, principles of operation, working with the media • the use of digital and multimedia devices in the educational process • Creating lessons from selected objects, integrated learning, practical use of certain information for the preparation of materialsin teaching. • The Internet - Definitions • Browser, criteria for finding, downloading images and texts from the Internet • E-mail: e-mail, creating your own e-mail addresses, basic work, connecting documents

Literature:
Baka Magdolna, Koczka Ferenc: Informatika - szövegszerkesztés, Eger : EKTF Líceum Kiadó, 1997. 170 s.
Csórián Sándor: Információ és kommunikáció. Budapest : Kossuth Könyvkiadó, 2003. 119. ISBN 9630944103
Czifra Juraj at all.: Informačné a komunikačné technológie v praxi I. Komárno : Selye János Egyetem, 2007. 450 s. ISBN 9788089234417
Szôkôl István: Modulárny systém výučby informatiky. Komárno : UJS, 2010. 100s. ISBN 9788089234974

Stoffa Veronika: Az informatika alapjai I. Apáczai közalapítvány, 2007. 268 s. ISBN 9788089234295
Wyatt L. Allen: Az internet alapjai. Budapest : Kossuth Könyvkiadó, 1996. 352. ISBN 9630938383x

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

Notes:

Evaluation of subjects
Total number of evaluated students: 188

A	B	C	D	E	FX
46.81	20.74	13.83	5.32	5.32	7.98

Teacher: Dr. habil. Ing. István Szőköl, PhD., Dr. Gábor Kiss, PhD., Dániel Zoltán Stojcsics, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ INV/15	**Name:** intercultural 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: 1	
Recommended semester/trimester of study: 1.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: One written test during a term for 50 points, another 50 points could be earned for continuous in-class activities (presentation of casuistics). At least 50 points – 50% of all possible points - has to be earned to pass the class. A mark - 90-100%; B mark 80-89%; C mark 70-79%; D mark 60-69%, E mark 50-59%.	
Results of education: By completing the course students will gain knowledge on the essence of ethnic processes and ethnic minorities of Slovakia, furthermore gain skills in practical applying acquired theories in educational process.	
Brief syllabus: Basic terminology: ethnicity, nation, nationality, ethnic minorities, multiculturalism, inter-cultural competence, atc. Inter-ethnic and inter-cultural relations. Ethnic symbols, stereotypes. Ethnic history of Slovakia. History of ethnic minorities in Slovakia, with particular regard to Hungarians. Concrete examples on Hungarian-Slovak, Hungarian-German, Hungarian-Rusin inter-ethnic relationships. The problem of the Rome minority in Slovakia and Central Europe. Practical opportunities of evolving inter-cultural competencies (meeting other cultures, respecting otherness, tolerance).	
Literature: Ács Zoltán: Nemzetiségek a történelmi Magyarországon. Budapest: Kossuth Könyvkiadó 1986. Botík, Ján: Chorváti na Slovensku. Bratislava: Slovenské národné múzeum 1996. Forray R. Katalin szerk.: Ismeretek a romológia alapképzési szakhoz. Pécs: Pécsi Tudományegyetem 2006. http://mek.oszk.hu/04800/04867/04867.pdf Gabal, Ivan: Etnické menšiny ve střední Evrope. Praha 1999. Gallová Kriglerová, Eva–Kadlečíková, Jana–Lajčáková Jarmila: Migranti. Multikulturalizmus a kultúrna integrácia migrantov na Slovensku. Nový pohľad na staré problémy. Bratislava: CVEK 2009. Gecse Annabella: Az etnikai és társadalmi átrendeződés folyamata egy gömöri falu 20. századi életében. Komárom–Somorja: Fórum Kisebbségkutató Intézet 2007 /Interethnica10./ Gyurgyík László: A szlovákiai magyarság népesedési folyamatai a 20. században (1918-tól 2001-ig). Komárom: Selye János Egyetem Tanárképző Kara 2013 / Monographiae Comaromienses 10./ Horváthová, Margaréta: Nemci na Slovensku. Etnokultúrne tradície z aspektu osídlenia, remesiel a odievania. Komárno–Dunajská Streda: Fórum inštitút–Spoločenskovedný ústav–Vydavateľstvo Lilium Aurum 2002 /Interethnica 4./ L. Juhász	

Ilona: „Fába róva, földbe ütve…” A kopjafák/emlékoszlopok mint a szimbolikus térfoglalás eszközei a szlovákiai magyaroknál. Komárom–Dunaszerdahely: Fórum Kisebbségkutató Intézet–Lilium Aurum Könyvkiadó 2005 /Interethnica 8./ Kiss Gabriella: Multikulturalizmus és oktatás. Debrecen: Kossuth Egyetemi Kiadó 2001. Liszka József: Bevezetés a néprajzba. A magyar néprajz/ európai etnológia alapjai. Dunaszerdahely: Lilium Aurum 2006. Liszka József szerk.: Interetnikus és interkulturális kapcsolatok Dél-Szlovákiában. Komárom: Selye János Egyetem Tanárképző Kara 2009 /Monographiae Comaromienses 1./ Liszka József: Populáris kultúra. Somorja: Fórum Kisebbségkutató Intézet 2010 /Magyarok Szlovákiában 6./ Magyar néprajzi lexikon 1–5. Budapest: Akadémiai Kiadó 1977–1982. Paládi-Kovács Attila szerk.: A nemzetiségek néprajzi felfedezői. Budapest: Akadémiai Kiadó 2006. Sopoliga, Miroslav: Ukrajinci na Slovensku. Etnokultúrne tradície z aspektu osídlenia, ľudovej architektúry a bývania. Komárno–Dunajská Streda: Fórum inštitút – Spoločenskovedný ústav–Vydavateľstvo Lilium Aurum 2002 /Interethnica 2./ Tradičná ľudová kultúra Slovenska slovom a obrazom. Elektronická encyklopédia (http://www.ludovakultura.sk/index.php?id=11) Vajda Barnabás szerk.: Államhatár és identitás–Komárom/Komárno. Komárom: Selye János Egyetem Tanárképző Kara 2011 /Monographiae Comaromienses 3./ Varjú Katalin: „Pénteken délig nyitva van az ég!“ Somorja–Dunaszerdahely: Fórum Kisebbségkutató Intézet–Lilium Aurum Könyvkiadó 2003 / Interethnica 6.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 85

A	B	C	D	E	FX
20.0	28.24	21.18	10.59	16.47	3.53

Teacher: Dr. habil. PhDr. József Liszka, PhD., Mgr. Ladislav Ďurdík, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ PKO/15	**Name:** Educational communication
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: 1	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: Evolution: A – 90 -100%, B – 80 -89%, C – 70 -79%, D – 60 - 69%, E – 50 -59%.	
Results of education: Student will get theoretical and practical basic skills within the social and pedagogical communication. During practices student will learn verbal and non-verbal skills used within the social communication, will train standard pedagogical situations - such as introduction of a new student, praise of a student, communication with parents. Student will be able to use non-verbal and paralinguistic means of expressions within these situations. Student will be able to analyze the school classes according to aspects of pedagogical communication.	
Brief syllabus: Introduction to communicaton. Definition of communication, social communication and terms. People and communication. Individual communication skills. Verbal communication. Words and their interpretaion. Paralinguistical means of expression. Practicing of verbal skills. Non-verbal communication. Menos of expression of non-verbal communication. Emhatic and assertive communication, behaviour and its importance int he communication. Basic characteristics of pedagogical communication. Educational goals and pedagogical communication. Organisational forms and didactical methods in accordance with communication. Main characteristics of teacher's communication. Monological and dialogical commnication forms. Verbal behaviour of students. Cooperation between teachers and students. How does the teacher motivates? The question of the teacher. Teacher's instructions. Evaluation. Tacher"s explanation. Solving of educational conflicts. Regulation of student's communication. Non-verbal communication during the class. Paralinguistic communication. Body-communication in education. Communcation barriers. Expression of expectations.	
Literature: Buda Béla. A közvetlen emberi kommunikáció szabályszerűségei. Budapest : Tömegkommunikációs Kutatóközpont, 1988. 296 s. ISBN 963 333 043 2 Gavora Peter. Akí sú moji žiaci? . 3. vyd. Nitra : Enigma, 2011. 222 s. ISBN 9788089132911 Nelešovská Alena. Pedagogická komunikace v teorii a praxi.1. vyd. : Grada, 2005. 175s. ISBN 8024707381	

Mareš Jiří. Sociální a pedagogická komunikace ve škole. 1. vyd. Praha : Statní Pedagogické Nakladatelství, 1989. 165s. ISBN 8004218547
Strédl Terézia. Kommunikáció és konfliktuskezelés. 1. vyd. Révkomárom : Szakképző és Felnőttképzési Intézet, 2009. 71 s. ISBN 9788097001124

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

Notes:

Evaluation of subjects
Total number of evaluated students: 762

A	B	C	D	E	FX
60.37	15.35	13.78	5.91	3.41	1.18

Teacher: Katalin Kanczné Nagy, PhD., Mgr. Péter Mészáros

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ SVZ/15	**Name:** Socio-Scientific and pedagogical-psychological basis of teaching
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:	
Level of study: I., II.	
Prerequisites: KPD/SZdb/VDP/15 and KPD/SZdb/ZVP/15 and KPD/SZdb/TEV/15 and KPD/ SZdb/VPS/15 and KPD/SZdb/DID/15 and KPD/SZdb/SCP/15 and KPD/SZdb/FVV/15 and KPD/ SZdb/LAD/15 and KPD/SZdb/ANA/15 and KPD/SZdb/PX1/15 and KPD/SZdb/SMP/15 and KPD/SZdb/APK/15	
Conditions for passing the subject: The student's answer verbal subjects which are of pedagogical and psychological foundations that evaluated examination committee. Evolution: A – 90 -100%, B – 80 -89%, C – 70 -79%, D – 60 - 69%, E – 50 -59%.	
Results of education: Graduated from the Department Teaching academic subjects through common sociálnovedného, pedagogical and psychological basis for teachers to acquire knowledge of the problems of educational sciences and social and legislative context of education and training and the basics of digital, psychological and special pedagogical literacy teacher.	
Brief syllabus: Final exam topics 1.Didaktika than science 2. Content of Teaching Process 3. Monitoring, evaluation, classification 4. Educational Communication 5. Education as a discipline in the educational system sciences 6. Design of the teacher's work 7. More specifically (specific) educational goals and Taxonomy 8. Traditional teaching methods 9. Novel teaching methods 10. Pupils differentiated work 11. The development of school systems in Europe, levels. The man image characteristics, educational and teaching curriculum content, methods and tools 12. Comenius's work and its impact today. Apáczai role in the development of Hungarian pedagogical theory 13. Education and Technology teaching aids	

14. Health care in schools: agenda, mental health, physical capacity, design and first-aid supplies The principles of the school environment
15. The school's role and possibilities of prevention. The teacher's personality, teacher as role model
16. The biological (physical), psychological and social development features
17. Description of Freud, Erikson and Piaget's developmental range of personality development
18. The head teacher responsible for community building
19. The difficult psychological issues nevelhetőség
20. The role of cognitive processes in learning
21. The special needs school options

Literature:
The compulsory and elective subjects is given subject data sheets.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 2

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

Teacher:

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ TEV/15	**Name:** Theory of 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: 3	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: Final test. Condition for successful completion of this course is to obtain at least 50% of the maximum possible assessment of the subject. Evaluation: A - 90 -100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%	
Results of education: The main goal of the subject is to transfer knowledge to the students about the mission of education, trends, to learning theoretical concepts in a historical context and the acquisition of basic skills of pedagogical thinking.	
Brief syllabus: Education tasks and aims. Reflexív- science theories before. Pragmatic-behavioral theory. Cognitive - behavioral theory. Humanistic theory-accrual of persona. Multimedia information-theory.	
Literature: Bábosík István. Neveléselmélet. - Budapest : Osiris Kiadó, 2004. - 615 s. - ISBN 963389655x. Budai Ágnes. Neveléselmélet gyakorlatközelben : A Majzik-jelenség. - 1. vyd. - Budapest : Műszaki Könyvkiadó, 2005. - 115s. - ISBN 963 16 4041 8. Péter Lilla. Neveléselméleti alapkérdések. - 1. vyd. - Kolozsvár : Kolozsvári Egyetemi Kiadó, 2008. - 203 s. - ISBN 978-973-610-738-2. Zelina Miron. Teórie výchovy alebo Hľadanie dobra. - 2. vyd. - Bratislava : SPN, 2010. - 232 s. - ISBN 978-80-10-01884-0. Pukánszky Béla. Iskola és pedagógusképzés. - 1. vyd. - Budapest : Gondolat Kiadó, 2014. - 182 s. - ISBN 9789636932282. Pukánszky Béla. A gyermekkor története. - 1. vyd. - Budapest : Műszaki Könyvkiadó, 2001. - 201s. - ISBN 963 16 2782 9. Pukánszky Béla. Két évszázad gyermekei : A tizenkilencedik-huszadik század gyermekkorának története. - 1. vyd. - Budapest : Eötvös József Könyvkiadó, 2003. - 308 s. - ISBN 963 9316 65 2. Vajda Zsuzsanna, Kósa Éva. Neveléslélektan. - 1. vyd. - Budapest : Osiris Kiadó, 2005. - 564 s. - ISBN 963 389 728 9. - ISSN 1218-9855.	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak Language	

Notes:

Evaluation of subjects
Total number of evaluated students: 309

A	B	C	D	E	FX
16.5	17.8	21.68	24.27	17.48	2.27

Teacher: prof. Dr. Béla István Pukánszki, DSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ VDP/15	**Name:** General education and history 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: 3

Recommended semester/trimester of study: 1.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
Final test. Condition for successful completion of this course is to obtain at least 50% of the maximum possible assessment of the subject.
Evaluation:
A - 90 -100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%.

Results of education:
The students will receive a brief overview of the history of education, taxonomy, pedagogical concepts, and the laws of pedagogy.

Brief syllabus:
Introduction to the history of pedagogy. Education in ancient Greece, Egypt, Athens, and Sparta. Democritos, Socrates, Plato, Aristotle. Hellenic era, Roman Empire. Education in feudalism, the early Middle Ages. Comenius, Locke, Rousseau, Pestalozzi, Tesedík, Lehotsky,. The history of education in Slovakia. The new education movement.Educational theories. The approach of Bertrand. Pragmatic-behavioral, cognitive-scientific, humanistic, and personalist trends.Pedagogical models, their analysis and importance in today's educational practice. Patterns of educational situations.The practical application of educational theory. Compilation of evaluation scales, introduction of the "rating". Monitoring methodology and its analysis in the classroom.

Literature:
Slávka Hlásna, Kinga Horváthová, Martin Mucha, Renáta Tóthová. Úvod do pedagogiky / - 1. vyd. - Nitra : ENIGMA, 2006. - 356 s. - ISBN 80-89132-29-4. Švecová Valéria. Základy pedagogiky. Technická univerzita v Košiciach, 1998. - 124 s. - ISBN 80-7099-323-5. Prucha Jan. Moderní pedagogika. - 4. vyd. - Praha : Portál, 2009. - 481 s. - ISBN 978-80-7367-503-5. Zelina, Miron. Teórie výchovy alebo Hľadanie dobra. - 2. vyd. - Bratislava : SPN, 2010. - 232 s. - ISBN 978-80-10-01884-0. Kasper Tomáš, Kasperová, Dana. Dějiny pedagogiky. - 1. vyd. - Praha : Grada Publishing, 2010. - 224 s. - ISBN 978-80-247-2429-4. Pukánszky Béla. A magyar iskolatörténet és pedagógusképzés paradigmái. - 1. vyd. - Komárno : Univerzita J. Selyeho, 2014. - 119 s. - ISBN 978-80-8122-096-8.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 813

A	B	C	D	E	FX
28.04	32.47	24.11	10.82	4.55	0.0

Teacher: prof. Dr. Béla István Pukánszki, DSc.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ VPS/15	**Name:** Developmental psychology
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: 2	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: Final test. Condition for successful completion of this course is to obtain at least 50% of the maximum possible assessment of the subject. Evaluation: A - 90 -100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%.	
Results of education: Student will learn fylogenetic and ontogenetic development patterns, the characteristics of the developments periods focused to students.	
Brief syllabus: History and main trends of developmetnalpsychology. Developmentalperiodizationas per differentauthors (L. Nagy, S. Freud, Erikson, J. Piaget) and itscomparation. Psychicaldevelopmetnindifferentages: prenatal, natal, postnatal, pre-schoolage, schoolage, teenage, adolescence. Adult life periods: early, middle and matureadult, senior life and death. Developmentspecifics a ser theircharacteristics: optimal, slowed, late, pathological and disharmonical.	
Literature: Atkinson L. Rita: Pszicholóogia. Budapest : Osiris Kiadó, 2005. 852 s. ISBN 9633897130. Bordás Sándor, Forró Zsuzsa, Németh Margit, Stredl Terézia: Pszichológiai jegyzetek. 3. vyd. Komárom : Valeur s.r.o. 2009. 320s. ISBN 9788089234851 Cole Michael: Fejlődéslélektan. Budapest : Osiris Kiadó, 2003. 810 s. ISBN 9633894735 Erényi Tibor at all.: Freud, avagy a modern individuum felfedezése. Budapest : Napvilág, 1997. 98. ISBN 9639082015 Mérei Ferenc - Binet V. Ágnes: Gyermeklélektan. Budapest : Medicina Könyvkiadó, 2006. 303 s. ISBN 963 226 027 9 Inhelder Barbel, Jean Piaget: A gyermek logikájától az ifjú logikájáig : A formális műveleti struktúrák kialakulása. Budapest : Akadémiai Kiadó. 1984. 336 s. ISBN 963 05 3642 0. Zelina Miron: Stratégie a metódy rozvoja osobnosti : Metódy výchovy. 2. vyd. Bratislava : Iris. 1996. 234 s. ISBN 8096701347	
Language, knowledge of which is necessary to complete a course: Hungarian or Slovak Language	
Notes:	

Evaluation of subjects
Total number of evaluated students: 760

A	B	C	D	E	FX
8.03	16.84	28.82	31.05	13.55	1.71

Teacher: prof. Dr. Béla István Pukánszki, DSc., PaedDr. Terézia Strédl, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPD/SZdb/ ZVP/15	**Name:** Fundamentals of General Psychology

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: 2

Recommended semester/trimester of study: 1.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
Final test. Condition for successful completion of this course is to obtain at least 50% of the maximum possible assessment of the subject. Evaluation: A - 90 -100%, B - 80% -89 C - -79% 70, D - 60-69%, E - 50 -59%.

Results of education:
The goal is toclarifythebasictheoreticalknowledge of generalpsychology and tobringpsychologyas a scientificdisciplineinterms of itshistoricaldevelopment, research and theories. Masteringthisknowledge is necessarynotonlyforthe management of otherpsychologicaldisciplines, butalsoforunderstandingthefunctioningmechanisms of the human psyche. Studentaftercompletion of thecourse: candefineindividualpsychologicalconceptssuchasmemory, thinking, language, etc., knowsthefunctioningmechanisms of cognitive, emotional and motivationalprocesses, identifiesvariouspsychologicalapproachesexaminingthepsyche of theindividual, theirspecifics and canappliehisknowledgetosolvepracticalproblemsinvariousareas of social life, butespeciallyineducationalpractice.

Brief syllabus:
1. Introduction 2. Main goals and metodology 3. Nature and nurture, neuropsychology4. Sensation and perception 5. Thinking 6. Language and communication 7. Memory 8. Learning 9. Emotions 10. IQ and creativity 12. Motivation 12. Personality 13. Coping

Literature:
Atkinson L. Rita: Pszichológia. Budapest : Osiris Kiadó, 2005. 852 s. ISBN 9633897130.
Bordás Sándor, Forró Zsuzsa, Németh Margit, Stredl Terézia: Pszichológiai jegyzetek. 3. vyd. Komárom : Valeur s.r.o., 2009. 320s. ISBN 9788089234851
Bugán A., PléhCs: Fejezetek a pszichológia alapterületeiből. Budapest : ELTE Eötvös Kiadó, 2000. 408 s. ISBN 9634633838
Pléh Csaba: A lélektan története. 2. vyd. Budapest : Osiris Kiadó, 2010. 652 s. ISBN 978 963 276 0520
Pléh Csaba, Boross Ottilia: Akadémiai lexikonok - Pszichológia : A pszichológia legfontosabb fogalmai magyar és angol nyelven. 1. vyd. Budapest : Akadémiai Kiadó, 2010. 403 s. ISBN 978 963 8658 0

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

Notes:

Evaluation of subjects
Total number of evaluated students: 936

A	B	C	D	E	FX
7.8	16.24	23.72	20.73	25.96	5.56

Teacher: prof. Dr. Béla István Pukánszki, DSc., Mgr. Anita Tóth-Bakos, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University

Name of the faculty: Faculty of Education

Code: KMF/VAJ/16 | **Name:** Všeobecný anglický jazyk

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: 1

Recommended semester/trimester of study: 1., 3., 5.

Level of study: I., II.

Prerequisites:

Conditions for passing the subject:
Two tests will be written during the semester, each with a score of 50 points. At least 90 points are required for grade A, 80 points for B, 70 points for C, 60 points for D, and a minimum of 50 points for E. Students who score under 50 points will not obtain a credit for this course.

Results of education:
Upon successful completion of this course, the student will be able to use the morphological and syntactical constructions of contemporary standard English language. The student will also be able to express himself/herself in English language, using vocabulary linked with the everyday topics.

Brief syllabus:
The topics include the most important vocabulary, as well as grammatical, morphological and syntactical constructions. The seminar I addresses the following topics: The past, present and future tenses. Auxiliary verbs. General rules of using verbs and tenses. Dialogue-constructions, abstract nouns, Expression of feelings; Use of tenses in narratives; continuous tenses; usage of prefixes and suffixes word-formation processes. Word order in English sentences. How to pass exams successfully? Usage of the definite and indefinite article.

Literature:
˜ Cunningham,S., Moor,P.: Cutting Edge - Upper Intermediate. London: Longman, 1999.˜ Martinet, A.J. – Martinet, A.V.: A Practical English Gramma . Oxford: OUP, 1986.˜ N. Hock Ildikó: 1000 questions – 1000 answers. Lexika, Székesfehérvár, 1992.˜ O'Connell, S.: Focus on Proficiency. London: Longman, 1995.˜ Swan, M.: Practical English Usage. Oxford: OUP, 1992.

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

Notes:

Evaluation of subjects
Total number of evaluated students: 8

a	n
100.0	0.0

Teacher: PaedDr. Andrea Puskás, PhD., Mgr. Renáta Marosiová

Date of last update: 16.09.2016
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KMF/ VAJ2/16	**Name:** Všeobecný anglický jazyk 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: 1	
Recommended semester/trimester of study: 2., 4., 6.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject:	
Results of education:	
Brief syllabus:	
Literature:	
Language, knowledge of which is necessary to complete a course:	
Notes:	

Evaluation of subjects

Total number of evaluated students: 13

A	B	C	D	E	FX
76.92	15.38	7.69	0.0	0.0	0.0

Teacher: Mgr. Renáta Marosiová
Date of last update: 26.01.2017
Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KTVŠ/ ŠPH1a/TV/12	**Name:** Sport games 1
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 1	
Recommended semester/trimester of study: 1.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: A (marked) 13 times in the PE lesson, B (marked) 12 times in the PE lesson, C (marked) 11 times in the PE lesson, D (marked) 10 times in the PE lesson, E (marked) 9 times in the PE lesson.	
Results of education: Create a personal need to moving. Basic elements, rule of the game, get to known different exercises. Motor skills development by specific exercises. Use new sport devices. PE moves practice. Use games, solve competition situations.	
Brief syllabus: Volleyball: Accident prevention information. Shape up the hit types (setting and bumping hits). Serving and passing. Hits from stand and move. Continuous hits over the net. Shape ups and attack hits. Attack and defense moves. Blocks and receiving the serves. 2-2 plays. 6-6 free plays. Making competition and play situations. Specific skill development. True play. Competitions. Football: Accident prevention information. Passing, ball use skill development. Passing and moving with ball. Shoots. Ball holding games 2-2, 3-2. Attacking moves with ball. Defensive moves. Tactical elements exercises. Skill development with ball. Setting place play. Play football with passing rules. Use tactical elements in play. Playing football with true rules. Play football matches. Swimming: Accident prevention information. Review basic swim exercises, skill assessment. Glides and breathing. Practice kicks with equipment. Practice Backstroke arm stoke and leg kick. Backstroke technique improve exercises. Practice freestyle arm stroke and leg kick. Freestyle breathing technique. Freestyle technique improve exercises. Practice breaststroke arm stroke and leg kick. Breaststroke breathing technique. Breaststroke technique improve exercises. Swimming sets. Long way workouts. Starts and turns. Swimming race. Table tennis: Accident prevention information. Set up the hitting technique. Forehand pushes, shots. Backhand pushes, shots. Serves, and counter hits. Continuously hitting to a marked side of the table with correct technique. Continuously play freely. Hitting strength and technique developing. Attacking and defensing moves, loop and push shots. Set up a continuously play. Directed hits. Changing side hitting. Plays. Competitions. Floorball: Accident prevention information. Rule of the sticks use and apply. Passes and ball receive. Ball control alone and passing in pairs. Shoots from standing. Shoots from moving and received ball shooting. Ball holding games. Attacking moves practicing. Defensive moves practicing. Tactical elements practicing. Fast attacking tactic practicing. Fast moves and received ball shooting. Playing floorball with rules. Competitions games. Fitness: Accident prevention	

information. Strength developing exercises for body shaping. Learn the correct set-up with exercises. Own body weight workouts, exercises with weights and workouts with fitness machines. Stretching skills workouts. Healthcare lifestyle. Aerobic: Accident prevention information. Musical dynamic workouts to improving cardiovascular endurance. Gymnastic with dancing elements. Hot-iron: Accident prevention information. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding with devices. Cross-fit: Accident prevention information. Specific strengthening workouts. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding own body weight workouts.

Literature:

Gál László, Sportjátékok II. (Sportjátékok elmélete és módszertana, kézilabdázás, röplabdázás) Nemzeti Tankönyvkiadó, 2003 ISBN:963 19 4584 7 Gál László, Kristóf László, Magyar György, Sportjátékok III. (Kosárlabdázás, labdarúgás, felkészítés-versenyzés) Nemzeti Tankönyvkiadó, Budapest, 1999 ISBN: 9631900215 FUTSAL Laws of the Game, http://www.fifa.com/mm/document/footballdevelopment/refereeing/51/44/50/lawsofthegamefutsal2014_15_eneu_neutral.pdf INTERNATIONAL FOOTBALL ASSOCIATION BOARD (IFAB), A labdarúgás játékszabályai 2014/2015 http://www.nemzetisport.hu/data/files/NSstatok/szabalykonyv_201415.pdf Tóth Ákos, Sós Csaba, Egressy János, Az úszás tankönyve, Semmelweis Egyetem Testnevelési és Sporttudományi Kar (Budapest) , 2008, ISBN: 9789637166945 Michael Brooks Developing Swimmers © 2011 ISBN-13: 9781450411455 Magyar asztalitenisz szövetség, Asztalitenisz szabálykönyv http://www.moatsz.hu/images/PDF/FTP/Szovetseg/szabalykonyvek/MOATSZ_szabalykonyv2012.pdf Magyar Röplabda Szövetség, A röplabdázás hivatalos játékszabályai 2015-2016, 2015. február http://www.mrszjt.hu/szab_terem/jatekszab.pdf Edi és Martin Bachmann: 1005 röplabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek, Dialóg Campus, 2000 Walter Bucher: 704 kézilabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek Dialóg Campus, 2002 Walter Bucher: 1014 Asztalitenisz játék és gyakorlat, Dialóg Campus, 2004 Nemzetközi Floorball Szövetség, Játékszabályok, Szabályok és értelmezésük http://www.hunfloorball.hu/_user/j%C3%A1t%C3%A9kszab%C3%A1lyok%202014.pdf

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

Hungarian or Slovak language

Notes:

Participation in the lessons.

Evaluation of subjects

Total number of evaluated students: 603

A	B	C	D	E	FX
64.18	10.95	13.76	3.48	7.46	0.17

Teacher: PaedDr. Beáta Dobay, PhD., PaedDr. Peter Židek, Péter Szabó, Mgr. Robin Pělucha, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KTVŠ/ ŠPH1b/TV/12	**Name:** Sport games 1
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 1	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: A (marked) 13 times in the PE lesson, B (marked) 12 times in the PE lesson, C (marked) 11 times in the PE lesson, D (marked) 10 times in the PE lesson, E (marked) 9 times in the PE lesson.	
Results of education: Create a personal need to moving. Basic elements, rule of the game, get to known different exercises. Motor skills development by specific exercises. Use new sport devices. PE moves practice. Use games, solve competition situations.	
Brief syllabus: Volleyball: Accident prevention information. Shape up the hit types (setting and bumping hits). Serving and passing. Hits from stand and move. Continuous hits over the net. Shape ups and attack hits. Attack and defense moves. Blocks and receiving the serves. 2-2 plays. 6-6 free plays. Making competition and play situations. Specific skill development. True play. Competitions. Football: Accident prevention information. Passing, ball use skill development. Passing and moving with ball. Shoots. Ball holding games 2-2, 3-2. Attacking moves with ball. Defensive moves. Tactical elements exercises. Skill development with ball. Setting place play. Play football with passing rules. Use tactical elements in play. Playing football with true rules. Play football matches. Swimming: Accident prevention information. Review basic swim exercises, skill assessment. Glides and breathing. Practice kicks with equipment. Practice Backstroke arm stoke and leg kick. Backstroke technique improve exercises. Practice freestyle arm stroke and leg kick. Freestyle breathing technique. Freestyle technique improve exercises. Practice breaststroke arm stroke and leg kick. Breaststroke breathing technique. Breaststroke technique improve exercises. Swimming sets. Long way workouts. Starts and turns. Swimming race. Table tennis: Accident prevention information. Set up the hitting technique. Forehand pushes, shots. Backhand pushes, shots. Serves, and counter hits. Continuously hitting to a marked side of the table with correct technique. Continuously play freely. Hitting strength and technique developing. Attacking and defensing moves, loop and push shots. Set up a continuously play. Directed hits. Changing side hitting. Plays. Competitions. Floorball: Accident prevention information. Rule of the sticks use and apply. Passes and ball receive. Ball control alone and passing in pairs. Shoots from standing. Shoots from moving and received ball shooting. Ball holding games. Attacking moves practicing. Defensive moves practicing. Tactical elements practicing. Fast attacking tactic practicing. Fast moves and received ball shooting. Playing floorball with rules. Competitions games. Fitness: Accident prevention	

information. Strength developing exercises for body shaping. Learn the correct set-up with exercises. Own body weight workouts, exercises with weights and workouts with fitness machines. Stretching skills workouts. Healthcare lifestyle. Aerobic: Accident prevention information. Musical dynamic workouts to improving cardiovascular endurance. Gymnastic with dancing elements. Hot-iron: Accident prevention information. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding with devices. Cross-fit: Accident prevention information. Specific strengthening workouts. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding own body weight workouts.

Literature:

Gál László, Sportjátékok II. (Sportjátékok elmélete és módszertana, kézilabdázás, röplabdázás) Nemzeti Tankönyvkiadó, 2003 ISBN:963 19 4584 7 Gál László, Kristóf László, Magyar György, Sportjátékok III. (Kosárlabdázás, labdarúgás, felkészítés-versenyzés) Nemzeti Tankönyvkiadó, Budapest, 1999 ISBN: 9631900215 FUTSAL Laws of the Game, http://www.fifa.com/mm/document/footballdevelopment/refereeing/51/44/50/lawsofthegamefutsal2014_15_eneu_neutral.pdf INTERNATIONAL FOOTBALL ASSOCIATION BOARD (IFAB), A labdarúgás játékszabályai 2014/2015 http://www.nemzetisport.hu/data/files/NSstatok/szabalykonyv_201415.pdf Tóth Ákos, Sós Csaba, Egressy János, Az úszás tankönyve, Semmelweis Egyetem Testnevelési és Sporttudományi Kar (Budapest) , 2008, ISBN: 9789637166945 Michael Brooks Developing Swimmers © 2011 ISBN-13: 9781450411455 Magyar asztalitenisz szövetség, Asztalitenisz szabálykönyv http://www.moatsz.hu/images/PDF/FTP/Szovetseg/szabalykonyvek/MOATSZ_szabalykonyv2012.pdf Magyar Röplabda Szövetség, A röplabdázás hivatalos játékszabályai 2015-2016, 2015. február http://www.mrszjt.hu/szab_terem/jatekszab.pdf Edi és Martin Bachmann: 1005 röplabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek, Dialóg Campus, 2000 Walter Bucher: 704 kézilabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek Dialóg Campus, 2002 Walter Bucher: 1014 Asztalitenisz játék és gyakorlat, Dialóg Campus, 2004 Nemzetközi Floorball Szövetség, Játékszabályok, Szabályok és értelmezésük http://www.hunfloorball.hu/_user/j%C3%A1t%C3%A9kszab%C3%A1lyok%202014.pdf

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

Hungarian or Slovak language

Notes:

Participation in the lessons.

Evaluation of subjects

Total number of evaluated students: 526

A	B	C	D	E	FX
63.31	10.46	11.98	7.03	6.65	0.57

Teacher: PaedDr. Beáta Dobay, PhD., PaedDr. Peter Židek, Péter Szabó, Mgr. Robin Pělucha, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KTVŠ/ ŠPH2a/TV/12	**Name:** Sport games 2
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 1	
Recommended semester/trimester of study: 1.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: A (marked) 13 times in the PE lesson, B (marked) 12 times in the PE lesson, C (marked) 11 times in the PE lesson, D (marked) 10 times in the PE lesson, E (marked) 9 times in the PE lesson.	
Results of education: Create a personal need to moving. Basic elements, rule of the game, get to known different exercises. Motor skills development by specific exercises. Use new sport devices. PE moves practice. Use games, solve competition situations.	
Brief syllabus: Volleyball: Accident prevention information. Shape up the hit types (setting and bumping hits). Serving and passing. Hits from stand and move. Continuous hits over the net. Shape ups and attack hits. Attack and defense moves. Blocks and receiving the serves. 2-2 plays. 6-6 free plays. Making competition and play situations. Specific skill development. True play. Competitions. Football: Accident prevention information. Passing, ball use skill development. Passing and moving with ball. Shoots. Ball holding games 2-2, 3-2. Attacking moves with ball. Defensive moves. Tactical elements exercises. Skill development with ball. Setting place play. Play football with passing rules. Use tactical elements in play. Playing football with true rules. Play football matches. Swimming: Accident prevention information. Review basic swim exercises, skill assessment. Glides and breathing. Practice kicks with equipment. Practice Backstroke arm stoke and leg kick. Backstroke technique improve exercises. Practice freestyle arm stroke and leg kick. Freestyle breathing technique. Freestyle technique improve exercises. Practice breaststroke arm stroke and leg kick. Breaststroke breathing technique. Breaststroke technique improve exercises. Swimming sets. Long way workouts. Starts and turns. Swimming race. Table tennis: Accident prevention information. Set up the hitting technique. Forehand pushes, shots. Backhand pushes, shots. Serves, and counter hits. Continuously hitting to a marked side of the table with correct technique. Continuously play freely. Hitting strength and technique developing. Attacking and defensing moves, loop and push shots. Set up a continuously play. Directed hits. Changing side hitting. Plays. Competitions. Floorball: Accident prevention information. Rule of the sticks use and apply. Passes and ball receive. Ball control alone and passing in pairs. Shoots from standing. Shoots from moving and received ball shooting. Ball holding games. Attacking moves practicing. Defensive moves practicing. Tactical elements practicing. Fast attacking tactic practicing. Fast moves and received ball shooting. Playing floorball with rules. Competitions games. Fitness: Accident prevention	

information. Strength developing exercises for body shaping. Learn the correct set-up with exercises. Own body weight workouts, exercises with weights and workouts with fitness machines. Stretching skills workouts. Healthcare lifestyle. Aerobic: Accident prevention information. Musical dynamic workouts to improving cardiovascular endurance. Gymnastic with dancing elements. Hot-iron: Accident prevention information. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding with devices. Cross-fit: Accident prevention information. Specific strengthening workouts. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding own body weight workouts.

Literature:

Gál László, Sportjátékok II. (Sportjátékok elmélete és módszertana, kézilabdázás, röplabdázás) Nemzeti Tankönyvkiadó, 2003 ISBN:963 19 4584 7 Gál László, Kristóf László, Magyar György, Sportjátékok III. (Kosárlabdázás, labdarúgás, felkészítés-versenyzés) Nemzeti Tankönyvkiadó, Budapest, 1999 ISBN: 9631900215 FUTSAL Laws of the Game, http://www.fifa.com/mm/document/footballdevelopment/refereeing/51/44/50/lawsofthegamefutsal2014_15_eneu_neutral.pdf INTERNATIONAL FOOTBALL ASSOCIATION BOARD (IFAB), A labdarúgás játékszabályai 2014/2015 http://www.nemzetisport.hu/data/files/NSstatok/szabalykonyv_201415.pdf Tóth Ákos, Sós Csaba, Egressy János, Az úszás tankönyve, Semmelweis Egyetem Testnevelési és Sporttudományi Kar (Budapest) , 2008, ISBN: 9789637166945 Michael Brooks Developing Swimmers © 2011 ISBN-13: 9781450411455 Magyar asztalitenisz szövetség, Asztalitenisz szabálykönyv http://www.moatsz.hu/images/PDF/FTP/Szovetseg/szabalykonyvek/MOATSZ_szabalykonyv2012.pdf Magyar Röplabda Szövetség, A röplabdázás hivatalos játékszabályai 2015-2016, 2015. február http://www.mrszjt.hu/szab_terem/jatekszab.pdf Edi és Martin Bachmann: 1005 röplabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek, Dialóg Campus, 2000 Walter Bucher: 704 kézilabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek Dialóg Campus, 2002 Walter Bucher: 1014 Asztalitenisz játék és gyakorlat, Dialóg Campus, 2004 Nemzetközi Floorball Szövetség, Játékszabályok, Szabályok és értelmezésük http://www.hunfloorball.hu/_user/j%C3%A1t%C3%A9kszab%C3%A1lyok%202014.pdf

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

Hungarian or Slovakian language

Notes:

Participation in the lessons.

Evaluation of subjects

Total number of evaluated students: 445

A	B	C	D	E	FX
64.49	12.13	11.46	4.72	7.19	0.0

Teacher: PaedDr. Beáta Dobay, PhD., PaedDr. Peter Židek, Péter Szabó, Mgr. Robin Pělucha, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KTVŠ/ ŠPH2b/TV/12	**Name:** Sport games 2
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 1	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: A (marked) 13 times in the PE lesson, B (marked) 12 times in the PE lesson, C (marked) 11 times in the PE lesson, D (marked) 10 times in the PE lesson, E (marked) 9 times in the PE lesson.	
Results of education: Create a personal need to moving. Basic elements, rule of the game, get to known different exercises. Motor skills development by specific exercises. Use new sport devices. PE moves practice. Use games, solve competition situations.	
Brief syllabus: Volleyball: Accident prevention information. Shape up the hit types (setting and bumping hits). Serving and passing. Hits from stand and move. Continuous hits over the net. Shape ups and attack hits. Attack and defense moves. Blocks and receiving the serves. 2-2 plays. 6-6 free plays. Making competition and play situations. Specific skill development. True play. Competitions. Football: Accident prevention information. Passing, ball use skill development. Passing and moving with ball. Shoots. Ball holding games 2-2, 3-2. Attacking moves with ball. Defensive moves. Tactical elements exercises. Skill development with ball. Setting place play. Play football with passing rules. Use tactical elements in play. Playing football with true rules. Play football matches. Swimming: Accident prevention information. Review basic swim exercises, skill assessment. Glides and breathing. Practice kicks with equipment. Practice Backstroke arm stoke and leg kick. Backstroke technique improve exercises. Practice freestyle arm stroke and leg kick. Freestyle breathing technique. Freestyle technique improve exercises. Practice breaststroke arm stroke and leg kick. Breaststroke breathing technique. Breaststroke technique improve exercises. Swimming sets. Long way workouts. Starts and turns. Swimming race. Table tennis: Accident prevention information. Set up the hitting technique. Forehand pushes, shots. Backhand pushes, shots. Serves, and counter hits. Continuously hitting to a marked side of the table with correct technique. Continuously play freely. Hitting strength and technique developing. Attacking and defensing moves, loop and push shots. Set up a continuously play. Directed hits. Changing side hitting. Plays. Competitions. Floorball: Accident prevention information. Rule of the sticks use and apply. Passes and ball receive. Ball control alone and passing in pairs. Shoots from standing. Shoots from moving and received ball shooting. Ball holding games. Attacking moves practicing. Defensive moves practicing. Tactical elements practicing. Fast attacking tactic practicing. Fast moves and received ball shooting. Playing floorball with rules. Competitions games. Fitness: Accident prevention	

information. Strength developing exercises for body shaping. Learn the correct set-up with exercises. Own body weight workouts, exercises with weights and workouts with fitness machines. Stretching skills workouts. Healthcare lifestyle. Aerobic: Accident prevention information. Musical dynamic workouts to improving cardiovascular endurance. Gymnastic with dancing elements. Hot-iron: Accident prevention information. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding with devices. Cross-fit: Accident prevention information. Specific strengthening workouts. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding own body weight workouts.

Literature:

Gál László, Sportjátékok II. (Sportjátékok elmélete és módszertana, kézilabdázás, röplabdázás) Nemzeti Tankönyvkiadó, 2003 ISBN:963 19 4584 7 Gál László, Kristóf László, Magyar György, Sportjátékok III. (Kosárlabdázás, labdarúgás, felkészítés-versenyzés) Nemzeti Tankönyvkiadó, Budapest, 1999 ISBN: 9631900215 FUTSAL Laws of the Game, http://www.fifa.com/mm/document/footballdevelopment/refereeing/51/44/50/lawsofthegamefutsal2014_15_eneu_neutral.pdf INTERNATIONAL FOOTBALL ASSOCIATION BOARD (IFAB), A labdarúgás játékszabályai 2014/2015 http://www.nemzetisport.hu/data/files/NSstatok/szabalykonyv_201415.pdf Tóth Ákos, Sós Csaba, Egressy János, Az úszás tankönyve, Semmelweis Egyetem Testnevelési és Sporttudományi Kar (Budapest) , 2008, ISBN: 9789637166945 Michael Brooks Developing Swimmers © 2011 ISBN-13: 9781450411455 Magyar asztalitenisz szövetség, Asztalitenisz szabálykönyv http://www.moatsz.hu/images/PDF/FTP/Szovetseg/szabalykonyvek/MOATSZ_szabalykonyv2012.pdf Magyar Röplabda Szövetség, A röplabdázás hivatalos játékszabályai 2015-2016, 2015. február http://www.mrszjt.hu/szab_terem/jatekszab.pdf Edi és Martin Bachmann: 1005 röplabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek, Dialóg Campus, 2000 Walter Bucher: 704 kézilabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek Dialóg Campus, 2002 Walter Bucher: 1014 Asztalitenisz játék és gyakorlat, Dialóg Campus, 2004 Nemzetközi Floorball Szövetség, Játékszabályok, Szabályok és értelmezésük http://www.hunfloorball.hu/_user/j%C3%A1t%C3%A9kszab%C3%A1lyok%202014.pdf

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

Hungarian or Slovakian language

Notes:

Participation in the lessons.

Evaluation of subjects

Total number of evaluated students: 377

A	B	C	D	E	FX
63.66	11.67	10.88	6.37	7.43	0.0

Teacher: PaedDr. Beáta Dobay, PhD., PaedDr. Peter Židek, Péter Szabó, Mgr. Robin Pělucha, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KPP/ŠPH3a/ TV/12	**Name:** Sport games 3
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 1	
Recommended semester/trimester of study: 1.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: A (marked) 13 times in the PE lesson, B (marked) 12 times in the PE lesson, C (marked) 11 times in the PE lesson, D (marked) 10 times in the PE lesson, E (marked) 9 times in the PE lesson.	
Results of education: Create a personal need to moving. Basic elements, rule of the game, get to known different exercises. Motor skills development by specific exercises. Use new sport devices. PE moves practice. Use games, solve competition situations.	
Brief syllabus: Volleyball: Accident prevention information. Shape up the hit types (setting and bumping hits). Serving and passing. Hits from stand and move. Continuous hits over the net. Shape ups and attack hits. Attack and defense moves. Blocks and receiving the serves. 2-2 plays. 6-6 free plays. Making competition and play situations. Specific skill development. True play. Competitions. Football: Accident prevention information. Passing, ball use skill development. Passing and moving with ball. Shoots. Ball holding games 2-2, 3-2. Attacking moves with ball. Defensive moves. Tactical elements exercises. Skill development with ball. Setting place play. Play football with passing rules. Use tactical elements in play. Playing football with true rules. Play football matches. Swimming: Accident prevention information. Review basic swim exercises, skill assessment. Glides and breathing. Practice kicks with equipment. Practice Backstroke arm stoke and leg kick. Backstroke technique improve exercises. Practice freestyle arm stroke and leg kick. Freestyle breathing technique. Freestyle technique improve exercises. Practice breaststroke arm stroke and leg kick. Breaststroke breathing technique. Breaststroke technique improve exercises. Swimming sets. Long way workouts. Starts and turns. Swimming race. Table tennis: Accident prevention information. Set up the hitting technique. Forehand pushes, shots. Backhand pushes, shots. Serves, and counter hits. Continuously hitting to a marked side of the table with correct technique. Continuously play freely. Hitting strength and technique developing. Attacking and defensing moves, loop and push shots. Set up a continuously play. Directed hits. Changing side hitting. Plays. Competitions. Floorball: Accident prevention information. Rule of the sticks use and apply. Passes and ball receive. Ball control alone and passing in pairs. Shoots from standing. Shoots from moving and received ball shooting. Ball holding games. Attacking moves practicing. Defensive moves practicing. Tactical elements practicing. Fast attacking tactic practicing. Fast moves and received ball shooting. Playing floorball with rules. Competitions games. Fitness: Accident prevention	

information. Strength developing exercises for body shaping. Learn the correct set-up with exercises. Own body weight workouts, exercises with weights and workouts with fitness machines. Stretching skills workouts. Healthcare lifestyle. Aerobic: Accident prevention information. Musical dynamic workouts to improving cardiovascular endurance. Gymnastic with dancing elements. Hot-iron: Accident prevention information. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding with devices. Cross-fit: Accident prevention information. Specific strengthening workouts. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding own body weight workouts.

Literature:

Gál László, Sportjátékok II. (Sportjátékok elmélete és módszertana, kézilabdázás, röplabdázás) Nemzeti Tankönyvkiadó, 2003 ISBN:963 19 4584 7 Gál László, Kristóf László, Magyar György, Sportjátékok III. (Kosárlabdázás, labdarúgás, felkészítés-versenyzés) Nemzeti Tankönyvkiadó, Budapest, 1999 ISBN: 9631900215 FUTSAL Laws of the Game, http://www.fifa.com/mm/document/footballdevelopment/refereeing/51/44/50/lawsofthegamefutsal2014_15_eneu_neutral.pdf INTERNATIONAL FOOTBALL ASSOCIATION BOARD (IFAB), A labdarúgás játékszabályai 2014/2015 http://www.nemzetisport.hu/data/files/NSstatok/szabalykonyv_201415.pdf Tóth Ákos, Sós Csaba, Egressy János, Az úszás tankönyve, Semmelweis Egyetem Testnevelési és Sporttudományi Kar (Budapest) , 2008, ISBN: 9789637166945 Michael Brooks Developing Swimmers © 2011 ISBN-13: 9781450411455 Magyar asztalitenisz szövetség, Asztalitenisz szabálykönyv http://www.moatsz.hu/images/PDF/FTP/Szovetseg/szabalykonyvek/MOATSZ_szabalykonyv2012.pdf Magyar Röplabda Szövetség, A röplabdázás hivatalos játékszabályai 2015-2016, 2015. február http://www.mrszjt.hu/szab_terem/jatekszab.pdf Edi és Martin Bachmann: 1005 röplabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek, Dialóg Campus, 2000 Walter Bucher: 704 kézilabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek Dialóg Campus, 2002 Walter Bucher: 1014 Asztalitenisz játék és gyakorlat, Dialóg Campus, 2004 Nemzetközi Floorball Szövetség, Játékszabályok, Szabályok és értelmezésük http://www.hunfloorball.hu/_user/j%C3%A1t%C3%A9kszab%C3%A1lyok%202014.pdf

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

Hungarian or Slovak language

Notes:

Participation in the lessons.

Evaluation of subjects

Total number of evaluated students: 190

A	B	C	D	E	FX
65.79	12.11	8.42	4.74	8.95	0.0

Teacher: PaedDr. Beáta Dobay, PhD., PaedDr. Peter Židek, Péter Szabó, Mgr. Robin Pělucha, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.

INFORMATION SHEET

Name of the university: J. Selye University	
Name of the faculty: Faculty of Education	
Code: KTVŠ/ ŠPH3b/TV/12	**Name:** Sport games 3
Types, range and methods of educational activities: **Form of study:** Practical **Recommended extent of course (in hours):** **Per week:** 1 **For the study period:** 13 **Methods of study:** present	
Number of credits: 1	
Recommended semester/trimester of study: 2.	
Level of study: I., II.	
Prerequisites:	
Conditions for passing the subject: A (marked) 13 times in the PE lesson, B (marked) 12 times in the PE lesson, C (marked) 11 times in the PE lesson, D (marked) 10 times in the PE lesson, E (marked) 9 times in the PE lesson.	
Results of education: Create a personal need to moving. Basic elements, rule of the game, get to known different exercises. Motor skills development by specific exercises. Use new sport devices. PE moves practice. Use games, solve competition situations.	
Brief syllabus: Volleyball: Accident prevention information. Shape up the hit types (setting and bumping hits). Serving and passing. Hits from stand and move. Continuous hits over the net. Shape ups and attack hits. Attack and defense moves. Blocks and receiving the serves. 2-2 plays. 6-6 free plays. Making competition and play situations. Specific skill development. True play. Competitions. Football: Accident prevention information. Passing, ball use skill development. Passing and moving with ball. Shoots. Ball holding games 2-2, 3-2. Attacking moves with ball. Defensive moves. Tactical elements exercises. Skill development with ball. Setting place play. Play football with passing rules. Use tactical elements in play. Playing football with true rules. Play football matches. Swimming: Accident prevention information. Review basic swim exercises, skill assessment. Glides and breathing. Practice kicks with equipment. Practice Backstroke arm stoke and leg kick. Backstroke technique improve exercises. Practice freestyle arm stroke and leg kick. Freestyle breathing technique. Freestyle technique improve exercises. Practice breaststroke arm stroke and leg kick. Breaststroke breathing technique. Breaststroke technique improve exercises. Swimming sets. Long way workouts. Starts and turns. Swimming race. Table tennis: Accident prevention information. Set up the hitting technique. Forehand pushes, shots. Backhand pushes, shots. Serves, and counter hits. Continuously hitting to a marked side of the table with correct technique. Continuously play freely. Hitting strength and technique developing. Attacking and defensing moves, loop and push shots. Set up a continuously play. Directed hits. Changing side hitting. Plays. Competitions. Floorball: Accident prevention information. Rule of the sticks use and apply. Passes and ball receive. Ball control alone and passing in pairs. Shoots from standing. Shoots from moving and received ball shooting. Ball holding games. Attacking moves practicing. Defensive moves practicing. Tactical elements practicing. Fast attacking tactic practicing. Fast moves and received ball shooting. Playing floorball with rules. Competitions games. Fitness: Accident prevention	

information. Strength developing exercises for body shaping. Learn the correct set-up with exercises. Own body weight workouts, exercises with weights and workouts with fitness machines. Stretching skills workouts. Healthcare lifestyle. Aerobic: Accident prevention information. Musical dynamic workouts to improving cardiovascular endurance. Gymnastic with dancing elements. Hot-iron: Accident prevention information. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding with devices. Cross-fit: Accident prevention information. Specific strengthening workouts. Specific strengthening workouts. Developing endurance, fat burn strengthening muscles and bones, high up metabolism, reducing weight, bodybuilding own body weight workouts.

Literature:

Gál László, Sportjátékok II. (Sportjátékok elmélete és módszertana, kézilabdázás, röplabdázás) Nemzeti Tankönyvkiadó, 2003 ISBN:963 19 4584 7 Gál László, Kristóf László, Magyar György, Sportjátékok III. (Kosárlabdázás, labdarúgás, felkészítés-versenyzés) Nemzeti Tankönyvkiadó, Budapest, 1999 ISBN: 9631900215 FUTSAL Laws of the Game, http://www.fifa.com/mm/document/footballdevelopment/refereeing/51/44/50/lawsofthegamefutsal2014_15_eneu_neutral.pdf INTERNATIONAL FOOTBALL ASSOCIATION BOARD (IFAB), A labdarúgás játékszabályai 2014/2015 http://www.nemzetisport.hu/data/files/NSstatok/szabalykonyv_201415.pdf Tóth Ákos, Sós Csaba, Egressy János, Az úszás tankönyve, Semmelweis Egyetem Testnevelési és Sporttudományi Kar (Budapest) , 2008, ISBN: 9789637166945 Michael Brooks Developing Swimmers © 2011 ISBN-13: 9781450411455 Magyar asztalitenisz szövetség, Asztalitenisz szabálykönyv http://www.moatsz.hu/images/PDF/FTP/Szovetseg/szabalykonyvek/MOATSZ_szabalykonyv2012.pdf Magyar Röplabda Szövetség, A röplabdázás hivatalos játékszabályai 2015-2016, 2015. február http://www.mrszjt.hu/szab_terem/jatekszab.pdf Edi és Martin Bachmann: 1005 röplabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek, Dialóg Campus, 2000 Walter Bucher: 704 kézilabda játék és gyakorlat - Kézikönyv tanároknak, edzőknek, versenyzőknek Dialóg Campus, 2002 Walter Bucher: 1014 Asztalitenisz játék és gyakorlat, Dialóg Campus, 2004 Nemzetközi Floorball Szövetség, Játékszabályok, Szabályok és értelmezésük http://www.hunfloorball.hu/_user/j%C3%A1t%C3%A9kszab%C3%A1lyok%202014.pdf

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

Hungarian or Slovak language

Notes:

Participation in the lessons.

Evaluation of subjects

Total number of evaluated students: 195

A	B	C	D	E	FX
59.49	13.85	16.92	5.13	4.1	0.51

Teacher: PaedDr. Beáta Dobay, PhD., PaedDr. Peter Židek, Péter Szabó, Mgr. Robin Pělucha, PhD.

Date of last update: 14.06.2016

Approved by: Guaranteeprof. Dr. Béla István Pukánszki, DSc.Guaranteeprof. Dr. János Nemcsók, DSc.Guaranteeprof. Dr. Annamária Várkonyiné Kóczy, DSc.