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-	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚCHV/ PECH/2014/15	Course name: Advanced electrochemistry
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pro-	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	redits: 5
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
exercises. Students a who leads the semin work, family reason semester without the	eminars (also applies to the online form of teaching) and laboratory practical re required to attend seminars and laboratory exercises. The relevant teacher ar/excercise will justify the reasoned absence of the student (incapacity for s, etc.) in a maximum of two seminars or laboratory exercises during the e need for replacement. In the event of a longer-term reasoned absence (for acity for work), the relevant teacher will provide the student with an alternative
•	ars and laboratory practical exercises. The preparation of students and their

2. Activity at seminars and laboratory practical exercises. The preparation of students and their regular monitoring is always assessed by the relevant teacher who conducts the seminar or laboratory exercise, within his/her competence.

3. The exam is observed in a regular oral form, resp. in case of restrictions of contact forms of the pedagogical process, the exam is performed by a suitable distance - electronic form.

4. To successfully master the subject, it is necessary to prove mastery of the required curriculum at least 51%.

Learning outcomes:

Students will gain theoretical knowledge and practical skills on advanced electrochemical methods..

Brief outline of the course:

1. Thermodynamics of electrochemical reactions.

- 2. Kinetics of electrochemical reactions.
- 3. Spectroelectrochemistry.
- 4. Electrochemical quartz crystal microbalances.
- 5. Electrochemiluminescence.
- 6. Two-pulse chronoamperometry.
- 7. Reverse pulse voltammetry.
- 8. Differential multipulse voltammetric techniques.

Recommended literature:

Scholz, F.: Elektroanalytical Methods, Springer, 2002.

Wang, J.: Analytical Electrochemistry, Wiley-VCH, 2000.

Course language:

Slovak language.

Notes:

Teaching is carried out in person or, if necessary, remotely using the bbb or MS Teams tool. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously.

-		
Course assessment Total number of assessed students: 4		
abs	n	
100.0	0.0	
Provides: prof. RNDr. Renáta Oriňaková, DrSc., RNDr. Ivana Šišoláková, PhD., univerzitná docentka, doc. RNDr. Andrea Straková Fedorková, PhD.		
Date of last modification: 26.11.2021		
Approved: prof. RNDr. Renáta Oriňaková, DrSc		

University:	D	τč	fárilz	Univo		in	Vačiaa
University.	г.,	J. 00	llalik	Oniver	SILY	ш	RUSICE

Faculty: Faculty of Science

Course ID: ÚCHV/
PEMFCH/22Course name: Advanced experimental methods in physical chemistry

Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

1. Participation in seminars (also applies to the online form of teaching) and laboratory practical exercises. Students are required to attend seminars and laboratory exercises. The relevant teacher who leads the seminar/excercise will justify the reasoned absence of the student (incapacity for work, family reasons, etc.) in a maximum of two seminars or laboratory exercises during the semester without the need for replacement. In the event of a longer-term reasoned absence (for example due to incapacity for work), the relevant teacher will provide the student with an alternative form of mastering the missed material;

2. Activity at seminars and laboratory practical exercises. The preparation of students and their regular monitoring is always assessed by the relevant teacher who conducts the seminar or laboratory exercise, within his/her competence.

3. Mastering tasks with relevant results and processing the results of experimental work in the form of a protocol and its acceptance.

4. To successfully master the subject, it is necessary to prove mastery of the required curriculum at least 51%. The evaluation is carried out on the basis of protocols. In the case of distance learning based on a paper on a selected topic and its presentation.

Learning outcomes:

Students will acquire knowledge and necessary skills about advanced experimental methods in physical chemistry.

Brief outline of the course:

- Determination of various charging / discharging parameters for Li-ion batteries - cycling, determination of charge transfer resistance, oxidation-reduction reactions, diffusion of Li+ ions, determination of exchange current density and others.

- Study of electrochemical properties of solar cells - filling factor, solar cell efficiency, internal resistance, influence of these parameters on the degradation of organic solar cells.

- Use of electrochemical impedance spectroscopy in the characterization of hybrid systems and the state of degradation of second life Li-ion batteries.

- Study of degradation of polymeric materials and layers by various methods.

- Study of electrocatalytic activity of nanoparticle catalysts.

- Electrostatic spinning.

- Study of antioxidant activity of various materials.
- Thermal analysis with mass spectrometry as a useful method in the characterization of materials.
- Surface chemistry and thermoporometry.
- Use of electrochemical methods in the characterization of sensors.
- Determination of analytical properties of sensors using cyclic voltammetry method.
- Determination of analytical properties of sensors using chronoamperometry method.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 2

Ν	Р		
0.0	100.0		

Provides: doc. RNDr. Miroslav Almáši, PhD., doc. RNDr. Andrea Straková Fedorková, PhD., RNDr. Ivana Šišoláková, PhD., univerzitná docentka, prof. RNDr. Andrej Oriňak, PhD., prof. RNDr. Renáta Oriňaková, DrSc.

Date of last modification: 27.10.2021

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

COU	JRSE INFORMATION LETTER
University: P. J. Šafárik Universit	y in Košice
Faculty: Faculty of Science	
Course ID: ÚCHV/ Course nan PFCH1/2014/14	ne: Advanced physical chemistry 1
Course type, scope and the meth Course type: Lecture / Practice Recommended course-load (how Per week: 2 / 2 Per study period Course method: present	urs):
Number of ECTS credits: 10	
Recommended semester/trimeste	er of the course:
Course level: III.	
Prerequisities:	
 exercises. Students are required to who leads the seminar will justify reasons, etc.) in a maximum of two need for replacement. In the event for work), the relevant teacher wind missed material; Activity at seminars and laboration regular monitoring is always as laboratory exercise, within his/her The exam is observed in a regular pedagogical process, the exam is pedagogical process, the exam is pedagogical process, the subjuct the subjuct set 51%. Part of the preparation of stude tuition is 70%, and the share of set set set set set set set set set set	lar oral form, resp. in case of restrictions of contact forms of the performed by a suitable distance - electronic form. ject, it is necessary to prove mastery of the required curriculum ents for lectures and seminars is self-study. The share of direct
Learning outcomes: Students will gain detailed knowle	edge on heterogenous catalysis.
study. Transport phenomena durin	rogenous catalysis, methods of catalysts study, catalytic reactions ng heterogenous catalysis. Calculation of kinetic constants and tion. Main impact is in area of catalysts for methane conversion
Recommended literature: 1. Atkins : Physical Chemistry IJ 2. P.C.Schmidt: Methods in Physic	IV. cal Chemistry, Wiley-VCH GmbH, 2012.

Course language: Slovak, English.

Notes:

Teaching is carried out in person or, if necessary, remotely using the bbb or MS Teams tool. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously.

Course assessment Total number of assessed students: 18 N P 0.0 100.0 Provides: prof. RNDr. Andrej Oriňak, PhD., prof. RNDr. Renáta Oriňaková, DrSc. Date of last modification: 25.04.2022 Approved: prof. RNDr. Renáta Oriňaková, DrSc.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ PFCH2/2014/14	Course name: Advanced physical chemistry 2
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 10
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
exercises. Students a who leads the seminar reasons, etc.) in a max- need for replacement for work), the releval missed material; 2. Activity at seminar regular monitoring is laboratory exercise, w 3. The exam is obser pedagogical process, 4. To successfully m at least 51%. 5. Part of the prepara	se completion: minars (also applies to the online form of teaching) and laboratory practical re required to attend seminars and laboratory exercises. The relevant teacher ar will justify the reasoned absence of the student (incapacity for work, family ximum of two seminars or laboratory exercises during the semester without the . In the event of a longer-term reasoned absence (for example due to incapacity nt teacher will provide the student with an alternative form of mastering the ars and laboratory practical exercises. The preparation of students and their is always assessed by the relevant teacher who conducts the seminar or within his/her competence. ved in a regular oral form, resp. in case of restrictions of contact forms of the the exam is performed by a suitable distance - electronic form. aster the subject, it is necessary to prove mastery of the required curriculum ation of students for lectures and seminars is self-study. The share of direct ne share of self-study is 30%.

Learning outcomes:

Students will gain extended knowledge on chemical kinetics, photochemistry, laser spectroscopy and electrochemistry. Course forms a basis for PhD students to solve problems in experimentl work and to find suitable evaluations.

Brief outline of the course:

1. Thermal properties of compounds, heat accumulation and transport.

- 2. Fast reactions and ways to measure them.
- 3. Relaxation time and relation to kinetic constants.

4. Photochemical methods . General principles of laser spectroscopy, dynamic spectroscopic transitions between electron states.

- 5. Relaxation of excited molecules, He-Ne laser, resolution in laser spectroscopy.
- 6. Theory of electrochemical processes, electrochemistry spectroscopy .
- 7. Elektrical doublelayer.

8. Butler-Volmer	equation an	d application.
0. Dutier vonner	equation an	a apprication.

9. Elektrochemical methods, kinetic currents.

10.Galvanostatic methods.

11.Potenciostatic methods.

Recommended literature:

1. Atkins: Fyzikálna chémia I-IV.

2. Barthel J.: Physical Chemistry of Electrolyte Solutions. Springer, 1998.

Course language:

Slovak language.

Notes:

Teaching is carried out in person or, if necessary, remotely using the bbb or MS Teams tool. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously.

Course assessment

Total number of assessed students: 16

Ν	Р
0.0	100.0

Provides: prof. RNDr. Andrej Oriňak, PhD., prof. RNDr. Renáta Oriňaková, DrSc.

Date of last modification: 25.04.2022

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ APECH/22	Course name: Applied electrochemistry	
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28	
Number of ECTS cr	redits: 5	
Recommended seme	ester/trimester of the course:	
Course level: III.		
Prerequisities:		

Conditions for course completion:

1. Participation in seminars (also applies to the online form of teaching) and laboratory practical exercises. Students are required to attend seminars and laboratory exercises. The relevant teacher who leads the seminar will justify the reasoned absence of the student (incapacity for work, family reasons, etc.) in a maximum of two seminars or laboratory exercises during the semester without the need for replacement. In the event of a longer-term reasoned absence (for example due to incapacity for work), the relevant teacher will provide the student with an alternative form of mastering the missed material;

2. Activity at seminars and laboratory practical exercises. The preparation of students and their regular monitoring is always assessed by the relevant teacher who conducts the seminar or laboratory exercise, within his/her competence.

3. The exam is observed in a regular oral form, resp. in case of restrictions of contact forms of the pedagogical process, the exam is performed by a suitable distance - electronic form.

4. To successfully master the subject, it is necessary to prove mastery of the required curriculum at least 51%.

Learning outcomes:

Students will gain knowledge and skills on applications of electrochemistry in battery and hydrogen technologies for a low-carbon economy and in electrochemical biosensors.

Brief outline of the course:

- Study of degradation processes in Li-ion batteries - corrosion of current collectors, degradation of the structure, formation of dendrites of metallic Li, formation of side products, decomposition of electrolyte.

- Sodium batteries and their electrochemical characterization.
- Solid state batteries polymer electrolytes and the use of flame retardants.
- Aplications of electrochemical methods in hydrogen technologies.
- Electrochemical hydrogen evolution reaction.
- Different types of electrolyzers and fuel cells.
- Electrochemical biosensors for the detection of viruses.
- Electrochemical biosensors for the detection of biologically relevant biomarkers.
- Biosensor surface treatment methods to analytical properties improvement.

Recommended literature:

Course language:

Slovak language.

Notes:

Teaching is carried out in person or, if necessary, remotely using the bbb or MS Teams tool. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously.

Course assessment

Total number of assessed students: 4

Ν	Р
0.0	100.0

Provides: doc. RNDr. Andrea Straková Fedorková, PhD., RNDr. Ivana Šišoláková, PhD., univerzitná docentka, prof. RNDr. Renáta Oriňaková, DrSc.

Date of last modification: 25.11.2021

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

Faculty: Faculty of S		
i acuity. I acuity 01 5	cience	
Course ID: ÚCHV/ Course name: Certified training course COK/22		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr		
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Learning outcomes:	fied professional/training co	
work and familiarize	s himself with the methodo	knowledge, develops the capabilities of scientific logies of making scientific knowledge available.
work and familiarize He confronts his own	s himself with the methodo	
work and familiarize He confronts his own	s himself with the methodo knowledge and skills with given scientific field.	logies of making scientific knowledge available.
work and familiarize He confronts his own peer discussion in the	s himself with the methodo knowledge and skills with given scientific field. ourse:	logies of making scientific knowledge available.
work and familiarize He confronts his own peer discussion in the Brief outline of the c	s himself with the methodo knowledge and skills with given scientific field. ourse:	logies of making scientific knowledge available.
work and familiarize He confronts his own peer discussion in the Brief outline of the c Recommended litera	s himself with the methodo knowledge and skills with given scientific field. ourse:	logies of making scientific knowledge available.
work and familiarize He confronts his own peer discussion in the Brief outline of the c Recommended litera Course language:	s himself with the methodo knowledge and skills with given scientific field. ourse: hture:	logies of making scientific knowledge available.
work and familiarize He confronts his own peer discussion in the Brief outline of the c Recommended litera Course language: Notes: Course assessment	s himself with the methodo knowledge and skills with given scientific field. ourse: hture:	logies of making scientific knowledge available.
work and familiarize He confronts his own peer discussion in the Brief outline of the c Recommended litera Course language: Notes: Course assessment	s himself with the methodo knowledge and skills with given scientific field. ourse: hture:	logies of making scientific knowledge available. other course participants, develops the abilities of
work and familiarize He confronts his own peer discussion in the Brief outline of the c Recommended litera Course language: Notes: Course assessment	s himself with the methodo knowledge and skills with given scientific field. ourse: nture: ssed students: 0 abs	n
work and familiarize He confronts his own peer discussion in the Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	s himself with the methodo knowledge and skills with e given scientific field. ourse: nture: ssed students: 0 abs 0.0	n

University: P. J. Safá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ CZC/22	Course name: Citation	in the International Scientific Journal
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cro	edits: 4	
Recommended seme	ster/trimester of the co	urse:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation in a	e completion: 1 foreign scientific journa	al.
•	demonstrates broad ar	nd very well-founded scientific knowledge in the
problem in such a wa source demonstrates	y that generates new kn	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates	the competence to con ific knowledge, at the hi	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient	by that generates new kn the competence to con ific knowledge, at the hi ourse:	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c	by that generates new kn the competence to con ific knowledge, at the hi ourse:	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera	by that generates new kn the competence to con ific knowledge, at the hi ourse:	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera Course language:	ay that generates new kn the competence to con ific knowledge, at the hi ourse: ature:	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment	ay that generates new kn the competence to con ific knowledge, at the hi ourse: ature:	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ay that generates new kn the competence to con ific knowledge, at the hi ourse: ature:	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexect nmunicate new knowledge, which is a significant ghest expert level
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ay that generates new kn the competence to con ific knowledge, at the hi ourse: nture: ssed students: 7 abs	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexect nmunicate new knowledge, which is a significan ghest expert level
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ay that generates new kn the competence to con ific knowledge, at the hi ourse: nture: ssed students: 7 abs 100.0	nulate research questions, to reflect on a scientific owledge. At the same time, a citation in an indexed nmunicate new knowledge, which is a significan ghest expert level

University: P. J. Šafá	rik University in Koši	CC.
Faculty: Faculty of S		
Course ID: ÚCHV/		ion in the Local Scientific Journal
CDC/22	course nume. crud	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cro		
Recommended seme	ster/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours Citation in a national		
researched field, bas problem in such a wa source demonstrates	ed on the ability to f ay that generates new	and very well-founded scientific knowledge in the formulate research questions, to reflect on a scientific knowledge. At the same time, a citation in an indexed communicate new knowledge, which is a significant highest expert level
Brief outline of the c	ourse:	
Recommended litera	ture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Provides: Date of last modifica	tion: 08.11.2022	

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Course name: Citation in the Monograph CM/22 Course name: Citation in the Monograph		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the co)urse:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation reg	se completion: istered in SCI or Scopus	S.
researched field, bas problem in such a wa source demonstrates	ed on the ability to for ay that generates new ki	and very well-founded scientific knowledge in the rmulate research questions, to reflect on a scientific nowledge. At the same time, a citation in an indexed mmunicate new knowledge, which is a significant ighest expert level.
Brief outline of the c	course:	
Brief outline of the o Recommended litera		
Recommended litera		
Recommended litera Course language:	ature:	
Recommended litera Course language: Notes: Course assessment	ature:	n
Recommended litera Course language: Notes: Course assessment	ssed students: 0	
Recommended litera Course language: Notes: Course assessment	ssed students: 0 abs	n
Recommended litera Course language: Notes: Course assessment Total number of asse	ssed students: 0 abs 0.0	n

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Course name: Co-investigator of the applied research project SPAV/22		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Co-investigator of the	e completion: e applied research project	
to the solution of the tasks. By solving an objective according t own activities with c	project objective of applie applied research project, o the established procedure olleagues, to participate in	icipate in teamwork, to bring his own contribution d research and to take responsibility for assigned he acquires the ability to implement the project e, to follow the project schedule, to coordinate his the creation of applied research outputs. The PhD cal course of a grant project with a focus on applied
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 0	
abs n		
	abs	n
	abs 0.0	n 0.0
Provides:		
Provides: Date of last modifica	0.0	

University: P. J. Šafárik University in I	Košice
Faculty: Faculty of Science	
Course ID: ÚCHV/ Course name: C SDP/22	o-worker of a Local Project
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of	the course:
Course level: III.	
Prerequisities:	
Conditions for course completion: Co-investigator of the domestic project	t
	ity to participate in teamwork, to bring his own contribution
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant p	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant pro- Brief outline of the course:	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant p	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant pro- Brief outline of the course:	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant point Brief outline of the course: Recommended literature:	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant point Brief outline of the course: Recommended literature: Course language:	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant period between the solution of the course: Recommended literature: Course language: Notes: Course assessment	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant period by the grant period of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 37	ve and to take responsibility for the assigned tasks. By res the ability to implement the project intention according the project schedule, to coordinate his own activities with on of outputs. The PhD student gains valuable experience project.
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant period by the grant period of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 37 abs	n n
The PhD student demonstrates the ability to the solution of the project objection solving the domestic project, he acquire to the established procedure, to follow colleagues, to participate in the creation from the practical course of the grant period by the grant period of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 37 abs 100.0	n n

University. 1. J. Sala	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Course name: Co-worker of an International Project		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 15	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Membership in the re	e completion: search team of an internation	onal project.
The PhD student der task, adhere to the ti experience from the creation of measurab	nonstrates the ability to wo me schedule and fulfill the implementation of an inter le outputs, grant funding of	within a team of international project solvers. rk in a team, take responsibility for the assigned project outputs. The PhD student gains personal mational project, participation in its key stages, science.
Brief outline of the c		
Recommended litera	ture:	
Course language:		
Notes:		
Notes: Course assessment Total number of asse	ssed students: 42	
Course assessment	ssed students: 42 abs	n
Course assessment Total number of asse		n 0.0
Course assessment Total number of asse	abs	
Course assessment Total number of asse	abs 100.0	

	MATION LETTER
University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚCHV/ Course name: Defence of ODZP/2014/15	Doctoral Thesis
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 30	
Recommended semester/trimester of the cours	se:
Course level: III.	
Prerequisities:	
elements of academic fraud and must meet the or Rector's Decision no. 21/2021, which lays down Šafárik University in Košice and its constituents	dent's own scientific research. It must not show criteria of correct research practice defined in the a the rules for assessing plagiarism at Pavel Jozef s. Fulfillment of the criteria is verified mainly in the thesis defense. Failure to do so is grounds for
mastery of the theory and professional terminolo skills and competences in accordance with the de as well as the ability to apply them in an origin of study. The student demonstrates the ability of formal and ethical aspects. Further details of the I 1/2011 on the essential prerequisites of final the in Košice for doctoral studies. The doctoral student demonstrated the ability and activity in the field of study of philology in a qualification framework and the profile of the gr	ific work and the student demonstrates extensive gy of the field of study, acquisition of knowledge, celared profile of the graduate of the field of study, hal way in solving selected problems of the field f independent scientific work in terms of content, Dissertation thesis are determined by Directive no. ses and by the Study Rules of Procedure at UPJŠ d readiness for independent scientific and creative ccordance with the expectations of the relevant aduate.
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 69	
Ν	Р
0.0	100.0

Provides:

Date of last modification: 08.11.2022

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚCHV/ Course name: Elaboration of reviewer report VPZP/22		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	redits: 3	
Recommended seme	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours Elaboration of review	1	
well as knowledge of assess a professiona recommend another sciences to his own f	a wide range of methods a l problem and its propose solution. He applies kno ield.	ntifically based knowledge in the field of study, as nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly owledge and skills from the field of pedagogical
well as knowledge of assess a professiona recommend another sciences to his own f Brief outline of the c	a wide range of methods a problem and its propose solution. He applies kno ield.	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly
well as knowledge of assess a professiona recommend another sciences to his own f Brief outline of the o Recommended litera	a wide range of methods a problem and its propose solution. He applies kno ield.	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the o Recommended liters Course language:	a wide range of methods a problem and its propose solution. He applies kno ield.	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the of Recommended liters Course language: Notes:	a wide range of methods a problem and its propose solution. He applies kno ield.	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the o Recommended liters Course language:	Ya wide range of methods a l problem and its propose solution. He applies kno Yield. Yourse: ature:	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the of Recommended litera Course language: Notes: Course assessment	Ya wide range of methods a l problem and its propose solution. He applies kno Yield. Yourse: ature:	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the of Recommended litera Course language: Notes: Course assessment	Sa wide range of methods a l problem and its propose solution. He applies kno ield. course: ature: essed students: 0	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly owledge and skills from the field of pedagogical
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the of Recommended litera Course language: Notes: Course assessment	Sa wide range of methods a l problem and its propose solution. He applies kno field. course: ature: essed students: 0 abs	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly owledge and skills from the field of pedagogical
well as knowledge of assess a professional recommend another sciences to his own f Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	Sa wide range of methods a l problem and its propose solution. He applies kno field. course: ature: essed students: 0 abs 0.0	nd approaches. Demonstrates the ability to critically ed solution, as well as to evaluate it and possibly owledge and skills from the field of pedagogical

University: P. J. Šafárik University in Košice
Faculty: Faculty of Science
Course ID: CJP/ Course name: English Language for PhD Students 1 AJD1/07 AJD1/07
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present
Number of ECTS credits: 2
Recommended semester/trimester of the course: 1.
Course level: III.
Prerequisities:
Conditions for course completion: Completion of e-course English for PhD Students (lms.upjs.sk), consultations (1-3). Written assignments - Professional/Academic CV, Short Academic Biography.
Learning outcomes: The development of students' language skills - reading, writing, listening, speaking; improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects; development of pragmatic competence - students acquire skills for effective and purposeful communication, with focus on Academic English and English for specific/professional purposes, level B2.
Brief outline of the course: Specific aspects of academic and professional English with focus on correct pronunciation, vocabulary development (noun and verb collocations, phrasal verbs, prepositional phrases, word-formation, formal/informal language, etc.), selected aspects of English grammar (prepositions, grammar tenses, passive voice, etc.), academic writing (professional/academic CV, Short Academic Biography).
Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. Košice, Vydavateľstvo ŠafárikPress, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011. Armer, T.: Cambridge English for Scientists. CUP, 2011. Ims.upjs.sk
Course language: English, level B2 according to CEFR
Notes:

Course assessment Total number of assessed students: 777					
N	Ne	Р	Pr	abs	neabs
0.0 0.0 45.82 0.0 54.05 0.13					0.13
Provides: Mgr.	Provides: Mgr. Zuzana Kolaříková, PhD.				
Date of last modification: 11.09.2023					
Approved: prof	Approved: prof. RNDr. Renáta Oriňaková, DrSc.				

LD2/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list). English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. <t< th=""><th></th><th>COURSE INFORMATION LETTER</th></t<>		COURSE INFORMATION LETTER
Course ID: CJP/ (JD2/07 Course name: English Language for PhD Students 2 Course type, scope and the method: Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Yumber of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Acarning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional surposes, level B2. Strief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolafiková, Z., Pe	University: P. J. Šafá	rik University in Košice
LD2/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list). English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. <t< th=""><th>Faculty: Faculty of S</th><th>cience</th></t<>	Faculty: Faculty of S	cience
Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Wumber of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS)	Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2
Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) cearning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolafiková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. UpJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafařikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP,	Course type: Practic Recommended cour Per week: 2 Per stu	ce rse-load (hours): idy period: 28
Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠaťaříkPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Number of ECTS cr	redits: 3
Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional burposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Recommended seme	ester/trimester of the course: 2.
Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) .carning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Course level: III.	
 Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Fearning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional burposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. 	Prerequisities:	
The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development (formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafařikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.		-
Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.	The development of a of their linguistic co and syntactic aspects	students' language skills - reading, writing, listening, speaking, improvement ompetence - students acquire knowledge of selected phonological, lexical s, development of pragmatic competence - students can efectively use the
Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Fomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.	Academic communic Specific aspects of a (formality, academic functions (expressing	cation (self-presentation, presenting at scientific meetings and conferences). academic and professional English with focus on vocabulary development c word-list), English grammar (passive voice, nominalisatio), language g opinion, cause/effect, presenting arguments, giving examples, describing
Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Recommended litera	ature:
	Kolaříková, Z., Petru UPJŠ Košice, 2021. Tomaščíková, S., Roz Vydavateľstvo Šafári McCarthy, M., O'De Štepánek, L., J. De H 2011.	nňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). zenfeld, J. Developing Academic English in Speaking and Writing. ikPress, 2021. II, F.: Academic Vocabulary in Use. CUP, 2008. Iaff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s.,
Course language: B2 level according to CEFR	Course language: B2 level according to	o CEFR
	Notes:	

Course assessm Total number o	nent f assessed studen	ts: 732					
N	Ne	Р	Pr	abs	neabs		
0.27	0.27 0.0 93.72 1.09 4.78 0.14						
Provides: Mgr.	Zuzana Kolaříko	vá, PhD.					
Date of last modification: 05.02.2024							
Approved: prof. RNDr. Renáta Oriňaková, DrSc.							

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ ZC/22	Course name: Internationa	l Journal
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a foreign journal as an au	thor/co-author.
level of ability to iden He demonstrates the applying them critica an innovative way, as according to the high	ntify, evaluate, and apply co ability to reflect on a scien Illy. He demonstrates the con s well as to generate new ori est qualitative and ethical sta	co-author, the PhD student demonstrates a high rrect scientific methods or research methodology. tific problem by using the latest approaches and npetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Date of last modifica	tion: 08 11 2022	

	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚCHV/ ZSP1/22	Course name: Internation	onal Study Stay less than 30 Days
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	redits: 5	
Recommended seme	ester/trimester of the cou	irse:
Course level: III.		
Prerequisities:		
Conditions for cours Completion of a fore	se completion: ign study stay lasting less	than 30 days.
December 1. time a sheet		
problems and work of while being able to g in more than one lang in a group with the air of research, to praction	critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundari ce and to the wider public	udent demonstrates the ability to reflect on research an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and tes of knowledge and transferring them to other areas He can competently argue and explain his ideas.
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c	critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public course:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera	critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public course:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera Course language:	critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public course:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera	critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundar ce and to the wider public course:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera Course language:	critically with sources at enerate new knowledge. I guage. He acts as a response m of pushing the boundaring ce and to the wider public course:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended liters Course language: Notes: Course assessment	critically with sources at enerate new knowledge. I guage. He acts as a response m of pushing the boundaring ce and to the wider public course:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended liters Course language: Notes: Course assessment	critically with sources at enerate new knowledge. I guage. He acts as a respon- m of pushing the boundari- ce and to the wider public course: ature:	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas He can competently argue and explain his ideas.
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended liters Course language: Notes: Course assessment	critically with sources at enerate new knowledge. If guage. He acts as a response m of pushing the boundaring ce and to the wider public course: ature: essed students: 2 abs	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas here an competently argue and explain his ideas.
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	critically with sources at enerate new knowledge. I guage. He acts as a response m of pushing the boundaring ce and to the wider public course: ature: assed students: 2 abs 100.0	an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level sible independent scientist, works independently and les of knowledge and transferring them to other areas here an competently argue and explain his ideas.

	rik University in Koši	
Faculty: Faculty of S	Science	
Course ID: ÚCHV/ ZSP2/22	Course name: Intern	national Study Stay more than 30 Days
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for course Completion of a fore	se completion: Fign study stay lasting 1	more than 30 days.
Learning outcomes:		
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to practio	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider pul	tudent demonstrates the ability to reflect on research s at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level ponsible independent scientist, works independently and daries of knowledge and transferring them to other areas blic. He can competently argue and explain his ideas.
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider put	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level ponsible independent scientist, works independently and daries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider put	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level ponsible independent scientist, works independently and daries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language:	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider put	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level ponsible independent scientist, works independently and daries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider pul course: ature:	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level ponsible independent scientist, works independently and daries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera Course language: Notes: Course assessment	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider pul course: ature:	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level ponsible independent scientist, works independently and daries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera Course language: Notes: Course assessment	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider pul course: ature:	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level bonsible independent scientist, works independently and daries of knowledge and transferring them to other areas blic. He can competently argue and explain his ideas.
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera Course language: Notes: Course assessment	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider put course: ature: essed students: 3 abs	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level bonsible independent scientist, works independently and daries of knowledge and transferring them to other areas blic. He can competently argue and explain his ideas.
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	study stay, the PhD st critically with sources enerate new knowledg guage. He acts as a resp m of pushing the bound ce and to the wider pul course: ature: essed students: 3 abs 100.0	at an expert level and in an interdisciplinary context, ge. He is able to actively communicate at an expert level bonsible independent scientist, works independently and daries of knowledge and transferring them to other areas blic. He can competently argue and explain his ideas.

University: P. J. Šafá	rik University in Košice	2
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ MKZ/22	Course name: Interna	tional conference abroad
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 10	
Recommended seme	ster/trimester of the c	ourse:
Course level: III.		
Prerequisities:		
Conditions for cours Active participation i	e completion: n an international confe	erence abroad.
demonstrates a high research methodolog scientific problem b competence to use est	level of ability to ident y in his scientific field y using the latest appr xisting theories and cor owledge and communic	nal scientific conference abroad, the phD student ify, evaluate, and apply correct scientific methods or . He demonstrates the ability to reflect on a specific roaches and applying them critically. Demonstrates neepts in an innovative way, as well as generate new cate research results to a wider audience by adequate
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 22	
	abs	n
	100.0	0.0
D		
Provides:		
Provides: Date of last modifica	tion: 08.11.2022	

University: P. J. Safá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ DK/04	Course name: Local Conf	erence
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Active participation i	e completion: n the home conference.	
degree of ability to id in his scientific field using the latest appro- theories and concepts	entify, evaluate, and apply co . He demonstrates the abili aches and applying them crit in an innovative way, as we	conference, the PhD student demonstrates a high prrect scientific methods or research methodology ty to reflect on a specific scientific problem by ically. Demonstrates competence in using existing ll as generating new original scientific knowledge audience using adequate means and through the
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notor		
Notes:		
Course assessment Total number of asse	ssed students: 128	
Course assessment	ssed students: 128 abs	n
Course assessment		n 0.0
Course assessment	abs	
Course assessment Total number of asse	abs 100.0	

Chiversity 1. 5. Bala	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ DKZU/22	Course name: Local Conf	Ference with Foreign Participation
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	ie:
Course level: III.		
Prerequisities:		
Conditions for cours Active participation i	se completion: in a national conference with	h foreign participation.
scientific field. He de latest approaches and and concepts in an i	emonstrates the ability to read applying them critically. If innovative way, as well as	cientific methods or research methodology in his flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and nee by adequate means and through Slovak or a
Brief outline of the c	ourse:	
Recommended litera	ature:	
	iture:	
Course language:	nture:	
Course language:		
Course language: Notes: Course assessment		n
Course language: Notes: Course assessment Total number of asse	ssed students: 15	n 0.0
Course language: Notes: Course assessment Total number of asse	ssed students: 15 abs	
Course language: Notes: Course assessment Total number of asse	ssed students: 15 abs 100.0	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ DC/22	Course name: Local Journ	al
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 6	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a national journal as auth	or/co-author.
level of ability to iden He demonstrates the applying them critica an innovative way, as according to the higher	ntify, evaluate, and apply con ability to reflect on a scien lly. He demonstrates the con swell as to generate new ori est qualitative and ethical sta	/co-author, the PhD student demonstrates a high rrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	ture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Annroved prof DNI	Dr. Renáta Oriňaková, DrSc.	

University:	P I Šafár	ik University i	n Košice				
Faculty: Fa							
		Course name	: Mass Spect	rometric Ide	entification		
Course ty Recomme	pe: Lecture nded cour 2 / 1 Per s	se-load (hours study period:	s):				
Number of	ECTS cre	dits: 4					
Recommen	ded semes	ter/trimester	of the cours	e:			
Course leve	el: III.						
Prerequisit	ies:						
Conditions	for course	e completion:					
Learning o	utcomes:						
spectrometa spectra obta Fragmentat current. Mc methods. Ta	ry and reso ained from ion, spectronitoring of andem MS methods of	f mass spectr lution. Quadrug different ion s a, and structura f selected ion/f -MS, GC-MSE surface analys ture:	poles, ion tra ources. Iden al informatio ragment. The), HPLC-MS	ps, TOF anal tification wit n. Identifica e use of hyph , microcolur	lyzers. Analy th MS. Detern tion by spectra nenated and co nn application	tes ionization mination of r ra compariso oupled chror	n, molecular molar mass. on. Total ion natographic
Course lan	guage:						
Notes:							
Course asse Total numb		sed students: 2					
А	В	С	D	Е	FX	N	Р
50.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Provides: p	rof. RNDr.	Andrej Oriňa	k, PhD.	-		<u>.</u>	
Date of last	modificat	tion: 07.11.202	22				
Approved:	prof. RND	r. Renáta Oriň	aková, DrSc				
••	-						

University: P J Safá	rik University in Košice	
Faculty: Faculty of S		
		er of the internal project team
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	redits: 3	
Recommended seme	ester/trimester of the c	ourse:
Course level: III.		
Prerequisities:		
Conditions for course Co-worker of project	se completion: t supported by internal g	prant schemes (VVGS)
Learning outcomes: The PhD student den		
The PhD student den to the solution of th the internal VVGS g established procedure and participate in th practical course of th	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the
The PhD student den to the solution of th the internal VVGS g established procedure and participate in th practical course of th Brief outline of the c	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student den to the solution of the the internal VVGS g established procedure and participate in the practical course of the Brief outline of the c Recommended litera	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student den to the solution of the the internal VVGS g established procedure and participate in the practical course of the Brief outline of the c Recommended litera Course language:	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student den to the solution of the the internal VVGS g established procedure and participate in the practical course of the Brief outline of the c Recommended litera	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student den to the solution of the the internal VVGS g established procedure and participate in the practical course of the Brief outline of the c Recommended litera Course language:	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student den to the solution of th the internal VVGS g established procedure and participate in th practical course of th Brief outline of the o Recommended litera Course language: Notes: Course assessment	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project.	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues,
The PhD student den to the solution of th the internal VVGS g established procedure and participate in th practical course of th Brief outline of the o Recommended litera Course language: Notes: Course assessment	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project. course: ature:	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the
The PhD student den to the solution of th the internal VVGS g established procedure and participate in th practical course of th Brief outline of the o Recommended litera Course language: Notes: Course assessment	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project. course: ature: ssed students: 15 abs	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the
The PhD student den to the solution of the the internal VVGS g established procedure and participate in the practical course of the Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	nonstrates the ability to p ne project objective wi grant, he acquires the al e, adhere to the project s e creation of outputs. The grant project. course: ature: ssed students: 15 abs 100.0	participate in teamwork, to bring his own contribution thin the internal grant system at UPJŠ. By solving bility to implement the project plan according to the chedule, coordinate his own activities with colleagues, The PhD student gains valuable experience from the

University: P. J. Šafár	rik University in Koši	ce
Faculty: Faculty of So	cience	
Course ID: ÚCHV/ POVK/22	Course name: Memb	bership in a Conference organizing Committee
Course type, scope an Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cre	edits: 3	
Recommended semes	ster/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours Work in the organizin	e completion: ag committee of the co	onference
abilities and competen to manage the implem in writing using variou level with various type decisions.	nces to organize a scie lentation in terms of tir us technical means as r es of people, if necessa	of the conference, the PhD student demonstrates the entific or professional event independently or in a team, me and content, to communicate effectively verbally and needed, including in a foreign language at a professional ary, correctly recommend solutions or make independent
Brief outline of the co	ourse:	
Recommended litera	ture:	
Course language:		
ungungu		
Notes:		
	sed students: 1	
Notes: Course assessment	ssed students: 1 abs	n
Notes: Course assessment Total number of asses		n 0.0
Notes: Course assessment Total number of asses	abs	
Notes: Course assessment Total number of asses	abs 100.0	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ MONB/22	Course ID: ÚCHV/ Course name: Monograph MONB/22	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 20	
Recommended seme	ster/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours Co-author of the mor	-	
evaluate, and apply c to reflect on a scient demonstrates the cor as to generate new o qualitative and ethic	orrect scientific methods of ific problem by using the l npetence to use existing th riginal scientific knowledg al standards of the field.	demonstrates a high level of ability to identify, research methodology. It demonstrates the ability atest approaches and applying them critically. He eories and concepts in an innovative way, as well ge, which he can publish according to the highest The doctoral student demonstrates the ability to gestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 0	
	ssed students: 0 abs	n
		n 0.0
	abs	
Total number of asse	abs 0.0	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ MONA/22		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS credits: 40		
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Co-author of a monog	e completion: graph in a renowned publish	ing house.
level of ability to iden He demonstrates the applying them critica in an innovative way publish according to	ability evaluate, and apply con- ability to reflect on a scien ally. He demonstrates the co- y, as well as to generate no the highest qualitative and e	shing house, the PhD student demonstrates a high rrect scientific methods or research methodology. tific problem by using the latest approaches and ompetence to use existing theories and concepts ew original scientific knowledge, which he can thical standards of the field. The doctoral student respond to reviewers' suggestions, to finalize his
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ NRZ/22	D: ÚCHV/ Course name: Non-Reviewed International or National Proceedings	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours A publication publish		n or national journal as an author/co-author.
demonstrates the abi methodology. He dem approaches and apply and concepts in an in- he can publish accord	lity to identify, evaluate, a monstrates the ability to re ring them critically. He dem novative way, as well as to g rding to the highest qualitat	al journal as an author/co-author, the PhD student nd apply correct scientific methods or research flect on a scientific problem by using the latest constrates the competence to use existing theories generate new original scientific knowledge, which tive and ethical standards of the field. The phD wn thoughts in a written speech.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 9	
	abs	n
	100.0	0.0
Provides:		
D.4 fl	tion: 08 11 2022	
Date of last modifica		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ PVS/04	, , ,	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Patent filed, invention	e completion: n, software product created.	
	onstrates the ability to creat interdisciplinary scale or in	e an innovative product in a given scientific field, technical practice.
Brief outline of the c	ourse:	
Recommended litera	ture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.	

	COURSE INFORMATION LETTER
University: P. J. Šafa	árik University in Košice
Faculty: Faculty of	Science
Course ID: KPE/ PgVU/17	Course name: Pedagogy for University Teachers
Course type, scope : Course type: Lectu Recommended cou Per week: Per stu Course method: di	ire irse-load (hours): dy period: 28s
Number of ECTS c	redits: 5
Recommended sem	ester/trimester of the course:
Course level: III.	
Prerequisities:	
1	rse completion: a teaching diary—100% re participation and attendance in accordance with the Study Regulations.
the educational proc evaluation of learn possibilities in the te	iples, methods, forms, and tools in the teaching of a specialised subject. Specify cedures of a university teacher in subject teaching, pedagogical diagnostics, ing outcomes, and self-reflection. Present rationalisation and streamlining eaching of specialised subjects. Apply educational competencies of university account the peculiarities of educating university students.
learning styles. Pos teacher–student inter of a university teac Forms of university	course: a university teacher. Teaching styles. Student in university education. Student sibilities of adapting teaching styles and student learning styles. University raction and communication in the teaching process. Pedagogical competencies her. Didactic analysis of the curriculum; teaching materials and textbooks. teaching. Methods of university teaching. Verification methods and student n of a didactic test. Designing university teaching process. University teacher
Publishing, a.s. Danek, J. (2014). Pe Metoda v Trnave. Dargová, J. (2001). Dvořáček, J. (2014). Hupková, M., Petlák Kyriacou, CH. (1996 Mertin, V. a kol. (20) Wolters Kluwer.	 Pature: Ioderní didaktika. Lexikon výukových a hodnoticích metod. Praha, Grada Padagogická komunikácia na vysokej škole. Trnava, Univerzita sv.Cyrila a Tvorivé kompetencie učiteľa. Prešov, Privat Press. Základy pedagogiky. Praha, Oeconomica. K, E. (2004). Sebareflexia a kompetencie v práci učiteľa. Bratislava, IRIS. 6). Klíčové dovednosti učitele. Praha, Portál. 12). Metody a postupy poznávaní žáka: pedagogická diagnostika. Praha, derní vyučování. Praha, Portál.

Metoda v Trnave. Slávik, M. a kol. (2012). Vysoko	ský učiteľ v edukačnom proce školská pedagogika. Praha, G do vysokoškolskej pedagogik islava, Wolters Kluwer, s.r.o.	ese. Trnava, Univerzita sv.Cyrila a rada. zy. Trnava, Univerzita sv.Cyrila a
Course language: slovak		
Notes:		
Course assessment Total number of assessed studen	ts: 120	
abs	n	neabs
98.33	0.0	1.67
Provides: doc. PaedDr. Renáta Orosová, PhD.		
Date of last modification: 12.03	.2024	
Approved: prof. RNDr. Renáta (Driňaková, DrSc.	

University: P. J. Šafárik University in Košice
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Physical supramolecular chemistry
FSCH/22	

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Active participation in lectures, seminars and elaboration of assignments. The overall evaluation of the course consists of two parts: submission of assignments (30 points), written test at the end of the semester (70 points). The rating scale is determined as follows: A (100-91%), B (90-81%), C (80-71%), D (70-61%), E (60-51%), Fx (50- 0%).

Learning outcomes:

To provide students of doctoral studies in the field of Physical Chemistry information about basic concepts, types of interactions and various types of supramolecular systems and their practical applications.

Brief outline of the course:

1. Historical development and basic concepts in supramolecular chemistry.

2. Chemical bonds, intermolecular interactions and physical phenomena in supramolecular systems.

3. Molecular and chiral recognition, self-organization, self-assembly and preorganization of molecules as basic building blocks of host-guest systems.

4. Design, thermodynamics and kinetics of molecular motors.

5. Supramolecular chemistry and the life sciences: supramolecular enzyme mimetics, synthetic transmembrane channels, diagnostic application and therapeutics.

6. Nanotechnology and industrial applications of supramolecular systems.

Recommended literature:

a) Paul Beer, Supramolecular chemistry: Fundamentals and applications, Oxford University Press, 2021.

b) Catherine Housecroft, Supramolecular chemistry in the 3rd millennium, MDPI AG, 2021.c) Peter J. Cragg, Supramolecular chemistry: From biological inspiration to biomedical

applications, Springer-Verlag GmbH, 2010.

Course language:

SK - slovak

Notes:

The subject is carried out in person or, if necessary, remotely using the online platform Big Blue Button (BBB). The form of teaching is specified by the teacher at the beginning of the semester and updated continuously.

Course assessment	
Total number of assessed students: 0	
Ν	Р
0.0	0.0
Provides: doc. RNDr. Miroslav Almáši, PhD.	
Date of last modification: 25.11.2021	
Approved: prof. RNDr. Renáta Oriňaková, DrSc	

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ POPV/22	1	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Active involvement i	e completion: n the popularization of scie	nce.
Learning outcomes:		
communication, iden professional knowled	tify the target group and a	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science
communication, iden professional knowled	tify the target group and a ge. A PhD student is able to entific work, but also in the	dapt the communication language to the level of arouse interest and motivate specific target groups
communication, iden professional knowled in the field of his scie	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse:	dapt the communication language to the level of arouse interest and motivate specific target groups
communication, iden professional knowled in the field of his scie Brief outline of the c	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse:	dapt the communication language to the level of arouse interest and motivate specific target groups
communication, iden professional knowled in the field of his scie Brief outline of the c Recommended litera	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse:	dapt the communication language to the level of arouse interest and motivate specific target groups
communication, iden professional knowled in the field of his scie Brief outline of the c Recommended litera Course language:	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse: nture:	dapt the communication language to the level of arouse interest and motivate specific target groups
communication, iden professional knowled in the field of his scie Brief outline of the c Recommended litera Course language: Notes: Course assessment	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse: nture:	dapt the communication language to the level of arouse interest and motivate specific target groups
communication, iden professional knowled in the field of his scie Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse: nture: ssed students: 16	dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science
communication, iden professional knowled in the field of his scie Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse: nture: ssed students: 16 abs	hapt the communication language to the level of arouse interest and motivate specific target groups wider context of science
communication, iden professional knowled in the field of his scie Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	tify the target group and a ge. A PhD student is able to entific work, but also in the ourse: nture: ssed students: 16 abs 100.0	hapt the communication language to the level of arouse interest and motivate specific target groups wider context of science

Faculty: Faculty of S	cience	
Course ID: ÚCHV/ VYS/22		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours Presentation at the se	-	
Learning outcomes:	ating in the cominer	the DhD student demonstrates the shility to identify
By actively participa evaluate, and apply of demonstrates the abi and applying them cr an innovative way, a research results by ac	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and thre	the PhD student demonstrates the ability to identify, ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating ough Slovak or a foreign language
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the c	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course:	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the o Recommended litera	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course:	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the o Recommended litera Course language:	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course:	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the o Recommended litera	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course:	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the of Recommended litera Course language: Notes:	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course:	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the of Recommended litera Course language: Notes:	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course: ature: ssed students: 4	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating ough Slovak or a foreign language
By actively participal evaluate, and apply of demonstrates the ability and applying them critical an innovative way, and research results by act Brief outline of the critical Recommended literal Course language: Notes: Course assessment	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course: ature: ssed students: 4 abs	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating ough Slovak or a foreign language n
By actively participa evaluate, and apply of demonstrates the abi and applying them or an innovative way, a research results by ac Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	correct scientific meth lity to reflect on a spe ritically. Demonstrates as well as generating r dequate means and three course: ature: ssed students: 4 abs 100.0	ods or research methodology in his field of study. He cific scientific problem by using the latest approaches competence in using existing theories and concepts in new original scientific knowledge and communicating ough Slovak or a foreign language n

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ ZRIG/22Course name: Principal investigator of an internal grant (VVGS)		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ster/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours Principal investigator	e completion: of an internal grant (VVG	S)
problem within the in their time schedule, the internal VVGS g established procedure	ternal grant system at UPJŠ measurable outputs and ad rant acquires the ability to e, to be responsible for ach	cess a successful application for his own research Acquires skills with the design of research stages, equate distribution of funds. The very solution of implement the project intention according to the leving the set outputs. As a responsible researcher, t management, its administration, and presentation
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment		
Total number of asse	ssed students: 10	
	abs	n
Total number of asse		n 0.0
Total number of asse	abs	
Total number of asse	abs 100.0	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PsVU/17	Course name: Psychology for University Lecturers
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: dis	re rse-load (hours): ly period: 28s
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Case study, micro-ou Current modification	
and Understand, su psychology, emotion educational psycholo b) apply the above psy of university teaching c) to create and im knowledge	course, students can: mmarize and explain selected psychological knowledge from cognitive and motivation psychology, personality psychology, developmental, social, gy and health psychology. ychological knowledge necessary for the professional, competent performance g practice of doctoral students plement the teaching of a professional topic with applied psychological formance and the performance of their classmates, provide feedback
psychology of emotion psychology and hear interactive, experient of independence, act in the teaching process social and competence student relationship of and motivation, deve	bourse: bourse is based on selected psychological knowledge of cognitive psychology ons and motivation, personality psychology, developmental, social, educational of lectures with the psychology. Teaching is realized by a combination of lectures with the methods, discussion, open communication with mutual respect, support ivity and motivation of students. Syllabus: University teacher and his work ess with a focus on: teachers in relation to themselves (cognitive, personal cies in the use of methods), in relation to students and as part of the teacher- on the basis of selected areas of cognitive psychology, psychology of emotions lopmental psychology, social psychology, educational psychology and health lication to the university environment
Schneider F., Gruman Fry, H., Ketteridge, S education: Enhancing	ature: b). Applying social psychology to education. Social Psychology.–Ed.: n J., Coutts L.–Sage Publications, Inc, 205-228. S., & Marshall, S. (2008). A handbook for teaching and learning in higher g academic practice. Routledge. ká psychologie. Portál, 2013.

Kniha psychologie. Universum, 20 Čáp, J., Mareš, J.: Psychologie pro Vágnerová, M.: Školní poradenská	učitele. Praha: Portál 2007.	raha: Karolínum 2005.
Course language: slovak		
Notes:		
Course assessment Total number of assessed students:	87	
abs	n	neabs
98.85	0.0	1.15
Provides: PhDr. Anna Janovská, Ph	nD.	
Date of last modification: 24.06.20)22	
Approved: prof. RNDr. Renáta Ori	ňaková, DrSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q1SA/22	Course name: Q1 journal	as co-author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 30	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for course Publication accepted	e completion: in a journal of category Q1	as co-author.
degree of ability to id He demonstrates the applying them critica an innovative way, as according to the high	entify, evaluate, and apply co ability to reflect on a scien lly. He demonstrates the co s well as to generate new or est qualitative and ethical sta	co-author, the PhD student demonstrates a high prrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 1	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	

Eagueltere Eaguelter CO	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q11A/22	Course name: Q1 journa	al as first or corresponding author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 40	
Recommended seme	ster/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	1	1 as first or corresponding author.
_	degree of ability to ident	ify, evaluate, and apply correct scientific methods
the latest approaches theories and concepts which he can publish	and applying them critical in an innovative way, as we h according to the highest trates the ability to critical	a ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, a qualitative and ethical standards of the field. The lly evaluate and respond to reviewers' suggestions,
the latest approaches theories and concepts which he can publish PhD student demons	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas	e ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas	e ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, a qualitative and ethical standards of the field. The
the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas	e ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, a qualitative and ethical standards of the field. The
the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas	e ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, a qualitative and ethical standards of the field. The
the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language:	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas course: ature:	e ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, a qualitative and ethical standards of the field. The
the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas course: ature:	e ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, a qualitative and ethical standards of the field. The
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the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas course: ature: ssed students: 2 abs	ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The lly evaluate and respond to reviewers' suggestions, n
the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	and applying them critical in an innovative way, as w h according to the highest trates the ability to critical eas course: ature: ssed students: 2 abs 100.0	ability to reflect on a scientific problem by using lly. He demonstrates the competence to use existing rell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The lly evaluate and respond to reviewers' suggestions, n

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q2SA/22	Course name: Q2 journal	as co-author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 20	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a journal of category Q2	as co-author.
degree of ability to id He demonstrates the applying them critica an innovative way, as according to the high	entify, evaluate, and apply co ability to reflect on a scien lly. He demonstrates the co s well as to generate new or est qualitative and ethical sta	co-author, the PhD student demonstrates a high prrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 4	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	

Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q21A/22	Course name: Q2 journal	as first or corresponding author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	redits: 30	
Recommended seme	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted		as first or corresponding author.
demonstrates a high or research methodo	degree of ability to identif	he first or corresponding author, the PhD student by, evaluate, and apply correct scientific methods
theories and concepts which he can publish	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically	ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
theories and concepts which he can publish PhD student demons	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas.	y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
theories and concepts which he can publisl PhD student demons to finalize his own id	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas.	y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas.	y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas.	y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language:	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas. course: ature:	y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas. course: ature:	y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas. course: ature: ssed students: 11	y. He demonstrates the competence to use existing ll as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	and applying them critically in an innovative way, as we h according to the highest of trates the ability to critically leas. course: ature: ssed students: 11 abs	n
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	and applying them critically sin an innovative way, as we h according to the highest of trates the ability to critically leas. course: ature: ssed students: 11 abs 100.0	n

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q3SA/22	Course name: Q3 journal	as co-author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 15	
Recommended seme	ster/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a journal of category Q3	as co-author.
degree of ability to id He demonstrates the applying them critica an innovative way, as according to the high	entify, evaluate, and apply c ability to reflect on a scien lly. He demonstrates the co s well as to generate new or est qualitative and ethical sta	a co-author, the PhD student demonstrates a high orrect scientific methods or research methodology. ntific problem by using the latest approaches and ompetence to use existing theories and concepts in riginal scientific knowledge, which he can publish andards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 5	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	4	
Date of last modifica	tion: 08.11.2022	

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q31A/22	Course name: Q3 journal	as first or corresponding author
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 25	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted		as first or corresponding author
demonstrates a high or research methodo	degree of ability to identify	e first or corresponding author, the PhD student y, evaluate, and apply correct scientific methods
theories and concepts which he can publish	and applying them critically in an innovative way, as wel h according to the highest q trates the ability to critically	bility to reflect on a scientific problem by using the demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions,
theories and concepts which he can publish PhD student demons	and applying them critically in an innovative way, as wel h according to the highest q trates the ability to critically eas.	. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id	and applying them critically in an innovative way, as well h according to the highest q trates the ability to critically eas.	. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c	and applying them critically in an innovative way, as well h according to the highest q trates the ability to critically eas.	. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera	and applying them critically in an innovative way, as well h according to the highest q trates the ability to critically eas.	. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language:	and applying them critically in an innovative way, as wel h according to the highest q trates the ability to critically eas. course: ature:	. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	and applying them critically in an innovative way, as wel h according to the highest q trates the ability to critically eas. course: ature:	. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	and applying them critically in an innovative way, as well h according to the highest q trates the ability to critically leas. course: ature: ssed students: 3	A. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions,
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	and applying them critically in an innovative way, as well h according to the highest q trates the ability to critically eas. course: ature: ssed students: 3 abs	he demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The revaluate and respond to reviewers' suggestions,
theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	and applying them critically in an innovative way, as well h according to the highest q trates the ability to critically eas. course: ature: ssed students: 3 abs 100.0	he demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The revaluate and respond to reviewers' suggestions,

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q4SA/22	Course name: Q4 journal	as co-author
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	e completion: in a journal of category Q4	as co-author.
degree of ability to id He demonstrates the applying them critica an innovative way, as according to the higher	entify, evaluate, and apply co ability to reflect on a scien lly. He demonstrates the con s well as to generate new or est qualitative and ethical sta	co-author, the PhD student demonstrates a high prrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 1	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion, 09 11 2022	

Fooulty: Fooulty of S	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ Q41A/22	Q41A/22	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 20	
Recommended seme	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	1	as first or corresponding author.
demonstrates a high or research methodo the latest approaches	degree of ability to identif logy. He demonstrates the a	he first or corresponding author, the PhD student by, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using
which he can publisl	in an innovative way, as we h according to the highest of trates the ability to critically	y. He demonstrates the competence to use existing ll as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
which he can publish PhD student demons	in an innovative way, as we h according to the highest of trates the ability to critically eas.	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
which he can publish PhD student demons to finalize his own id	in an innovative way, as we h according to the highest of trates the ability to critically eas.	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
which he can publish PhD student demons to finalize his own id Brief outline of the c	in an innovative way, as we h according to the highest of trates the ability to critically eas.	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera	in an innovative way, as we h according to the highest of trates the ability to critically eas.	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language:	a in an innovative way, as we h according to the highest of trates the ability to critically eas. course: ature:	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
 which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment 	a in an innovative way, as we h according to the highest of trates the ability to critically eas. course: ature:	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
 which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment 	s in an innovative way, as we h according to the highest of trates the ability to critically eas. course: ature: ssed students: 0	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
 which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment 	s in an innovative way, as we h according to the highest of trates the ability to critically eas. course: ature: ssed students: 0 abs	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	s in an innovative way, as we h according to the highest of trates the ability to critically eas. course: ature: ssed students: 0 abs 0.0	Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,

University: P. J. Šafá	rik University in Kosice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ RZ/22	Course name: Reviewed	International or Local Proceedings
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours A publication publish	-	eign or national proceedings as an author/co-author.
Learning outcomes: By publishing in a pe	er-reviewed foreign or nati	onal journal as an author/co-author, the PhD student
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas	onal journal as an author/co-author, the PhD student fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The ly evaluate and respond to reviewers' suggestions,
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language:	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas course: ature:	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a per- demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas course: ature:	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a per- demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas course: ature: ssed students: 46	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The ly evaluate and respond to reviewers' suggestions,
By publishing in a per demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment	degree of ability to identi- logy. He demonstrates the and applying them critical is in an innovative way, as w h according to the highest trates the ability to critical leas course: ature: ssed students: 46 abs	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The ly evaluate and respond to reviewers' suggestions, n
By publishing in a per- demonstrates a high or research methodo the latest approaches theories and concepts which he can publish PhD student demons to finalize his own id Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	degree of ability to identi- logy. He demonstrates the and applying them critical s in an innovative way, as w h according to the highest trates the ability to critical leas course: ature: ssed students: 46 abs 100.0	fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using ly. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The ly evaluate and respond to reviewers' suggestions, n

Ea avel4 60	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ SCI/22	Course name: SCI Citatio	on
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation reg	e completion: istered in SCI or Scopus.	
researched field, bas problem in such a wa	ed on the ability to formu ay that generates new know	very well-founded scientific knowledge in the late research questions, to reflect on a scientific vledge. At the same time, a citation in an indexed
contribution to scient	ific knowledge, at the high	nunicate new knowledge, which is a significant est expert level.
contribution to scient Brief outline of the c	ific knowledge, at the high	
	ific knowledge, at the high ourse:	
Brief outline of the c	ific knowledge, at the high ourse:	
Brief outline of the c Recommended litera	ific knowledge, at the high ourse:	
Brief outline of the c Recommended litera Course language:	ific knowledge, at the high ourse: nture:	
Brief outline of the c Recommended litera Course language: Notes: Course assessment	ific knowledge, at the high ourse: nture:	
Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ific knowledge, at the high ourse: nture: ssed students: 13	est expert level.
Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ific knowledge, at the high ourse: nture: ssed students: 13 abs	n
Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ific knowledge, at the high ourse: nture: ssed students: 13 abs 100.0	n

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VPZ/22	Course name: Scientific	work after sending to the editorial office	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours Scientific work after		office as an author/co-author.	
demonstrates a high or research methodol the latest approaches theories and concepts which he can publish	degree of ability to identia logy. He demonstrates the and applying them criticall in an innovative way, as we according to the highest	ific journal as an author/co-author, the PhD student fy, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing ell as to generate new original scientific knowledge, qualitative and ethical standards of the field. The te his own ideas in a structured form.	
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 2			
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion: 08.11.2022		

University: P.	J Šafárik	University in	Košice
University. 1.	J. Darank	Oniversity in	RUSICC

Faculty: Faculty of Science

Course ID: Dek. PF	Course name: Spring School for PhD Students
UPJŠ/JSD/14	

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d

Course method: distance, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Active participation in the Spring School of PhD students of UPJŠ.

Learning outcomes:

By actively participating in the Spring School of PhD Students of UPJŠ, the PhD student demonstrates a high level of ability to process the issues of his dissertation for a multidisciplinary audience with an emphasis on clarifying the motivation, scientific problem, processing methodology and own contribution to the solution of the selected topic. The PhD student demonstrates the ability to professionally discuss various research topics, present his own positions and accept a plurality of opinions. Demonstrates the ability to communicate research results to a wider professional audience with adequate means and through the Slovak language.

Brief outline of the course:

1. Interdisciplinary lectures from the fields of medicine, natural sciences, law, public affairs, humanities. Lecturers - top foreign or national experts from the mentioned fields.

2. Scientific lectures in sections created within related disciplines. Lecturers - top experts from UPJŠ from the mentioned fields.

3. Scientific contributions of PhD students in sections of related fields.

4. Panel discussions on the issue of PhD studies and current trends in the development of scientific disciplines at UPJŠ.

Recommended literature:

Proceedings of the Spring School of Doctoral Students.

Course language:

Notes:

Course assessment

Total number of assessed students: 187

abs	n
100.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 08.11.2022

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ VPSV/22	Course name: Supervis	sion of a Students Scientific Work
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the co	urse:
Course level: III.		
Prerequisities:		
Learning outcomes: By guiding a stude scientifically based ki and approaches. Dem solution, as well as to	nt's Scientific Activity nt within the SOČ or nowledge in the field of st constrates the ability to cri o evaluate it and possibly of pedagogical sciences to	ŠVOČ, the PhD student demonstrates broad and tudy, as well as knowledge of a wide range of methods itically assess a professional problem and its proposed propose another solution. He applies knowledge and o his own field.
Recommended litera		
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 4	
	abs	n
	100.0	0.0
Provides:		I
Provides: Date of last modifica		

· > · · · · · · · · · · · · · ·	rik University in Kos	ace
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ PPC1/22	Course name: Teac	hing activities 1 h/s
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cours Direct teaching activ	-	
Learning outcomes:	l activity the PhD st	udent demonstrates the ability to transfer and integrate
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and o	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies.	udent demonstrates the ability to transfer and integrate y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and o Brief outline of the c Recommended litera Course language:	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies. course: ature: ssed students: 8	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies. course: ature: ssed students: 8 abs	n
Learning outcomes: Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	s own field of study strategies of study g He is capable of desig urrent trends in high digital competencies. course: ature: ssed students: 8 abs 100.0	n

	rik University in K	ošice
Faculty: Faculty of S	science	
Course ID: ÚCHV/ PPC2/22	Course name: Te	aching activities 2 h/s
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	redits: 4	
Recommended seme	ester/trimester of t	he course:
Course level: III.		
Prerequisities:		
Conditions for course Direct teaching activ	1	S
Learning outcomes:		student demonstrates the ability to transfer and integrate
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c	l activity, the PhD s own field of study strategies of study He is capable of des urrent trends in hig digital competencie	student demonstrates the ability to transfer and integrate ady into education. He is able to select and apply the group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of s.
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c	l activity, the PhD s own field of study strategies of study He is capable of des urrent trends in hig digital competencie	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera	l activity, the PhD s own field of study strategies of study He is capable of des urrent trends in hig digital competencie	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and o Brief outline of the c Recommended litera Course language:	l activity, the PhD s own field of study strategies of study He is capable of des urrent trends in hig digital competencie	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and o Brief outline of the c Recommended litera Course language: Notes:	l activity, the PhD s own field of study strategies of study He is capable of des urrent trends in hig digital competencie	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and o Brief outline of the c Recommended litera Course language:	l activity, the PhD s own field of stu strategies of study He is capable of des urrent trends in hig digital competencie course: ature:	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	l activity, the PhD s own field of stu strategies of study He is capable of des urrent trends in hig digital competencie course: ature:	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	l activity, the PhD s own field of stu strategies of study He is capable of des urrent trends in hig digital competencie course: ature:	dy into education. He is able to select and apply the y group management, higher education and evaluation of signing and implementing part of the educational process ther education and the requirements placed on the level of s.
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	l activity, the PhD s own field of stu strategies of study He is capable of des urrent trends in hig digital competencie course: ature: ssed students: 9 abs	her education. He is able to select and apply the or group management, higher education and evaluation of signing and implementing part of the educational process where education and the requirements placed on the level of rs.
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and o Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	l activity, the PhD s own field of stu strategies of study le is capable of des urrent trends in hig digital competencie course: ature: ssed students: 9 abs 100.0	her education. He is able to select and apply the or group management, higher education and evaluation of signing and implementing part of the educational process where education and the requirements placed on the level of rs.

	rik University in Koši	ice
Faculty: Faculty of S		
Course ID: ÚCHV/ PPC3/22	Course name: Teacl	hing activities 3 h/s
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 6	
Recommended seme	ster/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cours Direct teaching active	1	
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c	own field of study strategies of study g le is capable of desig urrent trends in highe digital competencies.	udent demonstrates the ability to transfer and integrate v into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process or education and the requirements placed on the level of
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c	s own field of study strategies of study g He is capable of desig urrent trends in highe digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera	s own field of study strategies of study g He is capable of desig urrent trends in highe digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language:	s own field of study strategies of study g He is capable of desig urrent trends in highe digital competencies.	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera	s own field of study strategies of study g Ie is capable of desig urrent trends in highe digital competencies. course:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment	s own field of study strategies of study g Ie is capable of desig urrent trends in highe digital competencies. course:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	s own field of study strategies of study g Ie is capable of desig urrent trends in highe digital competencies. course: nture: ssed students: 1	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process or education and the requirements placed on the level of
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	s own field of study strategies of study g Ie is capable of desig urrent trends in highe digital competencies. course: nture: ssed students: 1 abs	n into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process or education and the requirements placed on the level of n
knowledge from his right techniques and learning outcomes. H in accordance with c communication and c Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	s own field of study strategies of study g Ie is capable of desig urrent trends in highe digital competencies. course: nture: ssed students: 1 abs 100.0	n into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process or education and the requirements placed on the level of the education and the education and the requirements placed on the level of the educatio

	rik University in Ko	
Faculty: Faculty of S	science	
Course ID: ÚCHV/ PPC4/22	Course name: Tead	ching activities 4 h/s
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 8	
Recommended seme	ester/trimester of th	e course:
Course level: III.		
Prerequisities:		
Conditions for course Direct teaching activ	1	
Learning outcomes: Through pedagogica	l activity the PhD c	udent demonstrates the ability to transfer and integrate
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c	s own field of stud strategies of study He is capable of desi urrent trends in high digital competencies	tudent demonstrates the ability to transfer and integrate y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c	s own field of stud strategies of study He is capable of desi urrent trends in high digital competencies	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from his right techniques and learning outcomes. H in accordance with c communication and c	s own field of stud strategies of study He is capable of desi urrent trends in high digital competencies	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
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University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ KZP/22	Course name: Thesis cons	sultant
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 4	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Final thesis consultar	-	
knowledge in the fiel Demonstrates the abi well as to evaluate it the field of pedagogie	d of study, as well as knowl lity to critically assess a pr and possibly propose anoth cal sciences to his own field	nt demonstrates broad and scientifically based edge of a wide range of methods and approaches. rofessional problem and its proposed solution, as er solution. He applies knowledge and skills from
Brief outline of the c	ourse:	
Recommended litera	ture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 30	1
	abs	n
	100.0	0.0
Provides:		
	tion: 08.11.2022	

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ VZP/22	Course name: Thesis sup	ervising
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cours Supervisor of the fina	1	
knowledge in the fiel Demonstrates the abi well as to evaluate it the field of pedagogie	d of study, as well as know lity to critically assess a p and possibly propose anoth cal sciences to his own field	ent demonstrates broad and scientifically based ledge of a wide range of methods and approaches. rofessional problem and its proposed solution, as er solution. He applies knowledge and skills from d.
Brief outline of the c	ourse:	
Recommended litera		
Recommended litera		
Recommended litera Course language:	iture:	
Recommended litera Course language: Notes: Course assessment	iture:	n
Recommended litera Course language: Notes: Course assessment	ssed students: 1	n 0.0
Recommended litera Course language: Notes: Course assessment	ssed students: 1 abs	
Recommended litera Course language: Notes: Course assessment Total number of asse	ssed students: 1 abs 100.0	

	University:	P. J.	Šafárik	University	in Košice
I	Chiver Sity.	1.0	Juluin	Oniversity	

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Trends in physical chemistry I
TRFCHa/22	

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

1. Participation in seminars (also applies to the online form of teaching) and laboratory practical exercises. Students are required to attend seminars and laboratory exercises. The relevant teacher who leads the seminar/excercise will justify the reasoned absence of the student (incapacity for work, family reasons, etc.) in a maximum of two seminars or laboratory exercises during the semester without the need for replacement. In the event of a longer-term reasoned absence (for example due to incapacity for work), the relevant teacher will provide the student with an alternative form of mastering the missed material;

2. Activity at seminars and laboratory practical exercises. The preparation of students and their regular monitoring is always assessed by the relevant teacher who conducts the seminar or laboratory exercise, within his/her competence.

3. The exam is observed in a regular oral form, resp. in case of restrictions of contact forms of the pedagogical process, the exam is performed by a suitable distance - electronic form.

4. To successfully master the subject, it is necessary to prove mastery of the required curriculum at least 51%.

Learning outcomes:

Students will gain knowledge and skills on recent trends in physical chemistry.

Brief outline of the course:

- Li-ion batteries and their electrochemical properties methods of analysis and characterization
- Redox-flow batteries and their electrochemical properties methods of analysis and characterization
- Solar cells and their electrochemical properties methods of analysis and characterization
- Advanced spectroscopic and imaging methods.
- Combination of electrochemical and spectroscopic methods.
- Photoelectric phenomenon and its use in the modern world.
- Physical chemistry of nanomaterials.
- Applications of nanodevices, nanoelectronics, and nanosensors in physical chemistry.

Recommended literature:

1. Theoretical Models and Experimental Approaches in Physical Chemistry Research Methodology and Practical Methods, 1st Edition. Edited By A. K. Haghi, Sabu Thomas, Praveen K.M., Avinash R. Pai, Copyright Year 2017, ISBN 9781774630723, Published March 31, 2021 by Apple Academic Press

2. Advanced Series in Physical Chemistry: Volume 14. Modern Trends in Chemical Reaction Dynamics, Part I: Experiment and Theory. https://doi.org/10.1142/5363

March 2004. Edited By: Xueming Yang (Academia Sinica, Taiwan & Chinese Academy of Sciences, PRC) and Kopin Liu (Academia Sinica, Taiwan)

3. Amperometric and Impedance Monitoring Systems for Biomedical Applications, J. Punter-Villagrasa, 2017, Published by Springer

Course language:

Slovak language.

Notes:

Based on the current pandemic situation in Slovakia and in accordance with the conditions of the Faculty of Natural Sciences of UPJŠ in Košice, the education and examination can also be carried out in a distance form. The tutorial will be carried out in the form of online lectures and consultings in the BigBlueButton system. The written form of the exam takes place through the Google Forms app. Students prepare responses to the final written test. Test questions are randomly generated each time. The final oral exam is conducted through a webinar in BigBlueButton https://bbb.science.upjs.sk/b) system with online generation of random question numbers.

Course assessment

Total number of assessed students: 4

Ν	Р
0.0	100.0

Provides: doc. RNDr. Miroslav Almáši, PhD., doc. RNDr. Andrea Straková Fedorková, PhD., RNDr. Ivana Šišoláková, PhD., univerzitná docentka, prof. RNDr. Andrej Oriňak, PhD., prof. RNDr. Renáta Oriňaková, DrSc.

Date of last modification: 25.11.2021

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

University: P I	Šafárik University in Koš	fice
University. 1. J.	Salarik University in Kos	

Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Trends in physical chemistry II
TRFCHb/22	

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

1. Participation in seminars (also applies to the online form of teaching) and laboratory practical exercises. Students are required to attend seminars and laboratory exercises. The relevant teacher who leads the seminar/excercise will justify the reasoned absence of the student (incapacity for work, family reasons, etc.) in a maximum of two seminars or laboratory exercises during the semester without the need for replacement. In the event of a longer-term reasoned absence (for example due to incapacity for work), the relevant teacher will provide the student with an alternative form of mastering the missed material;

2. Activity at seminars and laboratory practical exercises. The preparation of students and their regular monitoring is always assessed by the relevant teacher who conducts the seminar or laboratory exercise, within his/her competence.

3. The exam is observed in a regular oral form, resp. in case of restrictions of contact forms of the pedagogical process, the exam is performed by a suitable distance - electronic form.

4. To successfully master the subject, it is necessary to prove mastery of the required curriculum at least 51%.

Learning outcomes:

Students will gain knowledge and skills on recent trends in physical chemistry.

Brief outline of the course:

- Post-lithium ion batteries and their electrochemical properties - methods of analysis and characterization.

- Organic solar cells and their electrochemical properties methods of analysis and characterization.
- Hybrid battery systems and the use of second life Li-ion batteries for various applications.
- Molecular aspects of hydrophobicity.
- Surface tension of polymers.
- Porous coordination polymers and their applications.
- Biophysical chemistry, detection and analysis of biomolecules.
- Contrast agents and modern diagnostic methods in medicine.

- High performance and smart materials.

Recommended literature:

1. "Atkins' Physical Chemistry" by Atkins, de Paula and Keeler, Oxford University Press.

2. Advanced Series in Physical Chemistry: Volume 14. Modern Trends in Chemical Reaction Dynamics, Part I: Experiment and Theory. https://doi.org/10.1142/5363

March 2004. Edited By: Xueming Yang (Academia Sinica, Taiwan & Chinese Academy of Sciences, PRC) and Kopin Liu (Academia Sinica, Taiwan)

3. Z Xueji, Electrochemical Sensors, Biosensors and their Biomedical Applications, ISBN 9780123737380, 2008, Published by Elsevier Science Publishing Co Inc

Course language:

Slovak language.

Notes:

Based on the current pandemic situation in Slovakia and in accordance with the conditions of the Faculty of Natural Sciences of UPJŠ in Košice, the education and examination can also be carried out in a distance form. The tutorial will be carried out in the form of online lectures and consultings in the BigBlueButton system. The written form of the exam takes place through the Google Forms app. Students prepare responses to the final written test. Test questions are randomly generated each time. The final oral exam is conducted through a webinar in BigBlueButton https://bbb.science.upjs.sk/b) system with online generation of random question numbers.

Course assessment

Total number of assessed students: 4

Ν	Р
0.0	100.0

Provides: doc. RNDr. Miroslav Almáši, PhD., doc. RNDr. Andrea Straková Fedorková, PhD., RNDr. Ivana Šišoláková, PhD., univerzitná docentka, prof. RNDr. Andrej Oriňak, PhD., prof. RNDr. Renáta Oriňaková, DrSc.

Date of last modification: 25.11.2021

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ PDS/22	Course name: Writing Dis	ssertation Work
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 20	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
regulations, preparati		escribed composition according to the UPJŠ study successfully completed dissertation examination.
the conditions prescr	1 1	, , , , , , , , , , , , , , , , , , ,
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The PhD student dem the conditions preser study related to the to Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	ibed by the study regulation opic of the dissertation. course: nture: ssed students: 8 N 0.0	P