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University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ PECH/2014/15	Course name: Advanced electrochemistry
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 28 / 28 esent
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
<b>Conditions for cours</b> 1. Participation in ser exercises. Students at who leads the semina work, family reasons semester without the example due to incapa form of mastering the	<b>e completion:</b> minars (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 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 e 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 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		
<b>Provides:</b> 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:	Ρ.	ΙŠ	afárik	Univ	versitv	in	Košice
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Faculty: Faculty of Science

Course ID: ÚCHV/<br/>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.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚCHV/ PFCH1/2014/14	Course name: Advanced physical chemistry 1
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 28 / 28 esent
Number of ECTS cr	edits: 10
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
<ol> <li>Conditions for cours         <ol> <li>Participation in set exercises. Students at who leads the semina reasons, etc.) in a max need for replacement. for work), the relevan missed material;</li> <li>Activity at semina regular monitoring i laboratory exercise, v</li> <li>The exam is observ pedagogical process,</li> <li>To successfully ma at least 51%.</li> <li>Part of the prepara tuition is 70%, and th</li> </ol> </li> </ol>	e completion: minars (also applies to the online form of teaching) and laboratory practical re required to attend seminars and laboratory exercises. The relevant teacher r will justify the reasoned absence of the student (incapacity for work, family timum 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 at teacher will provide the student with an alternative form of mastering the rs and laboratory practical exercises. The preparation of students and their s always assessed by the relevant teacher who conducts the seminar or within his/her competence. wed 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 te share of self-study is 30%.
Learning outcomes: Students will gain der	tailed knowledge on heterogenous catalysis.
Brief outline of the c Completed knowledg study. Transport pher methods of catalysts to hydrogen or useful	ourse: es from heterogenous catalysis, methods of catalysts study, catalytic reactions nomena during heterogenous catalysis. Calculation of kinetic constants and characterisation. Main impact is in area of catalysts for methane conversion chemicals.
<b>Recommended litera</b> 1. Atkins : Physical C 2. P.C.Schmidt: Meth	t <b>ure:</b> Chemistry IIV. ods in Physical 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. Šafán	rik University in Košice
Faculty: Faculty of S	cience
<b>Course ID:</b> ÚCHV/ PFCH2/2014/14	Course name: Advanced physical chemistry 2
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	nd the method: e / Practice rse-load (hours): study period: 28 / 28 esent
Number of ECTS cro	edits: 10
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours 1. Participation in set exercises. Students at who leads the seminal reasons, etc.) in a max- need for replacement. for work), the relevant missed material; 2. Activity at seminal regular monitoring i laboratory exercise, w 3. The exam is observed pedagogical process, 4. To successfully may at least 51%. 5. Part of the prepara- tuition is 70%, and th	e completion: minars (also applies to the online form of teaching) and laboratory practical re required to attend seminars and laboratory exercises. The relevant teacher r will justify the reasoned absence of the student (incapacity for work, family imum 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 rs and laboratory practical exercises. The preparation of students and their s always assessed by the relevant teacher who conducts the seminar or within his/her competence. wed 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 attion of students for lectures and seminars is self-study. The share of direct e 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.

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. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ APECH/22	Course name: Applied electrochemistry	
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 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.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ COK/22	e ID: ÚCHV/ Course name: Certified training course		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Completion of a certi	e completion: fied professional/training co	ourse.	
Learning outcomes: The PhD student acc work and familiarize He confronts his own peer discussion in the	uires up-to-date scientific k s himself with the methodo knowledge and skills with given scientific field.	nowledge, develops the capabilities of scientific logies of making scientific knowledge available. other course participants, develops the abilities of	
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		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ CZC/22	Course name: Citation in the International Scientific Journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Obtained citation in a	Conditions for course completion: Obtained citation in a foreign scientific journal.		
Learning outcomes: Obtaining a citation researched field, bas problem in such a wa source demonstrates contribution to scient	demonstrates broad and ed on the ability to formul ay that generates new know the competence to commu- tific knowledge, at the highe	very well-founded scientific knowledge in the ate research questions, to reflect on a scientific ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant st expert level	
Brief outline of the c	Brief outline of the course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 7			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ CDC/22	Course name: Citation in the Local Scientific Journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Citation in a national	e completion: scientific journal		
Learning outcomes: Obtaining a citation researched field, bas problem in such a wa source demonstrates contribution to scient	demonstrates broad and ed on the ability to formul ay that generates new know the competence to commu- ific knowledge, at the highe	very well-founded scientific knowledge in the ate research questions, to reflect on a scientific ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant st expert level	
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
abs n			
0.0 0.0			
Provides:			
Date of last modifica	tion: 08.11.2022		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ CM/22Course name: Citation in the	Course name: Citation in the Monograph	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 8		
Recommended semester/trimester of the course	:	
Course level: III.		
Prerequisities:		
<b>Conditions for course completion:</b> Obtained citation registered in SCI or Scopus.		
Learning outcomes: Obtaining a citation demonstrates broad and ver- researched field, based on the ability to formula problem in such a way that generates new knowle source demonstrates the competence to commun contribution to scientific knowledge, at the highes	ery well-founded scientific knowledge in the te research questions, to reflect on a scientific edge. At the same time, a citation in an indexed nicate new knowledge, which is a significant at expert level.	
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 0		
abs n		
0.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
<b>Course ID:</b> ÚCHV/ SPAV/22	Course name: Co-investig	ator of the applied research project	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Co-investigator of the	e completion: e applied research project		
The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective of applied research and to take responsibility for assigned tasks. By solving an applied research project, he acquires the ability to implement the project objective according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of applied research outputs. The PhD student gains valuable experience from the practical course of a grant project with a focus on applied research.			
Brief outline of the course:			
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
abs n			
0.0 0.0			
Provides:			
Date of last modifica	Date of last modification: 08.11.2022		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc		

Faculty: Faculty of Science         Course ID: ÚCHV/       Course name: Co-worker of a Local Project		
Course ID: ÚCHV/ Course name: Co-worker of a Local Project		
SDP/22		
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		
The PhD student demonstrates the ability to participate in teamwork, to bring his own contribution to the solution of the project objective and to take responsibility for the assigned tasks. E solving the domestic project, he acquires the ability to implement the project intention according to the established procedure, to follow the project schedule, to coordinate his own activities with colleagues, to participate in the creation of outputs. The PhD student gains valuable experience from the practical course of the grant project.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 37		
abs n		
100.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafái	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ SDPR/04	Course ID: ÚCHV/ Course name: Co-worker of a Local Project		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: se-load (hours): y period: sent		
Number of ECTS cro	edits: 2		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 518		
	abs	n	l
99.81 0.19			
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Renáta Oriňaková, Dr.	Sc.	

University 1. J. Salarik University in Rosice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ Course name: Co-worker of an International Project MPR/04		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 15		
Recommended semester/trimester of the course:		
Course level: III.		
Prerequisities:		
<b>Conditions for course completion:</b> Membership in the research team of an international project.		
Learning outcomes: Active involvement by solving a specific task within a team of international project solvers. The PhD student demonstrates the ability to work in a team, take responsibility for the assigned task, adhere to the time schedule and fulfill the project outputs. The PhD student gains personal experience from the implementation of an international project, participation in its key stages, creation of measurable outputs, grant funding of science.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 42		
abs n		
100.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ Course name: Defence of Doctoral Thesis ODZP/2014/15			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cro	edits: 30		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for course completion:</b> The Dissertation thesis is the result of the student's own scientific research. It must not show elements of academic fraud and must meet the criteria of correct research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavel Jozef Šafárik University in Košice and its constituents. Fulfillment of the criteria is verified mainly in the process of supervising and in the process of the thesis defense. Failure to do so is grounds for disciplinary action.			
<b>Learning outcomes:</b> The Dissertation thesis has elements of a scientific work and the student demonstrates extensive mastery of the theory and professional terminology of the field of study, acquisition of knowledge, skills and competences in accordance with the declared profile of the graduate of the field of study, as well as the ability to apply them in an original way in solving selected problems of the field of study. The student demonstrates the ability of independent scientific work in terms of content, formal and ethical aspects. Further details of the Dissertation thesis are determined by Directive no. 1/2011 on the essential prerequisites of final theses and by the Study Rules of Procedure at UPJŠ in Košice for doctoral studies. The doctoral studies.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 69			
N P			
0.0 100.0		100.0	

**Provides:** 

**Date of last modification:** 08.11.2022

Approved: prof. RNDr. Renáta Oriňaková, DrSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚCHV/ DZS/15	Course ID: ÚCHV/ Course name: Dissertation examination DZS/15		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: rsent		
Number of EC18 cr			
Recommended seme	ster/trimester of the co	urse:	
Course level: 111.			
Prerequisities:			
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 63		
N P			
0.0 100.0			
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Renáta Oriňaková, D	rSc.	

University P I Šafá	rik University in Košice	
Ecoulty: Ecoulty of S		
Faculty: Faculty of Science		
Course ID: UCHV/ VPZP/22	<b>Course name:</b> Elaboratior	of reviewer report
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 3	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for cours</b> Elaboration of review	se completion: ver report	
The PhD student der well as knowledge of assess a professional recommend another sciences to his own f	nonstrates broad and scient a wide range of methods and l problem and its proposed solution. He applies know ield.	ifically based knowledge in the field of study, as approaches. Demonstrates the ability to critically solution, as well as to evaluate it and possibly ledge and skills from the field of pedagogical
Brief outline of the c	course:	
Recommended litera	ature:	
Course language:		
Notes:		
<b>Course assessment</b> Total number of asse	ssed students: 0	
	abs	n
0.0 0.0		
Provides:		
Date of last modifica	ntion: 08.11.2022	
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc	

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: CJP/ AJD1/07	Course name: English Language for PhD Students 1
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: dis	nd the method: ce cse-load (hours): dy period: 28 tance, present
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: III.	
Prerequisities:	
<b>Conditions for cours</b> Completion of e-cour Written assignments	e completion: se English for PhD Students (lms.upjs.sk), consultations (1-3). - Professional/Academic CV, Short Academic Biography.
Learning outcomes: The development of s of their linguistic con syntactic aspects; dev purposeful communic purposes, level B2.	students' language skills - reading, writing, listening, speaking; improvement npetence - students acquire knowledge of selected phonological, lexical and relopment of pragmatic competence - students acquire skills for effective and eation, with focus on Academic English and English for specific/professional
Brief outline of the c Specific aspects of vocabulary developm formation, formal/inf grammar tenses, passi Biography).	<b>ourse:</b> academic and professional English with focus on correct pronunciation, ent (noun and verb collocations, phrasal verbs, prepositional phrases, word- formal language, etc.), selected aspects of English grammar (prepositions, ive voice, etc.), academic writing (professional/academic CV, Short Academic
Recommended litera Moore, J.: Oxford Ac Kolaříková, Z., Petru Košice, Vydavateľstv Tomaščíková, S., Roz Vydavateľstvo Šafáril McCarthy, M., O'Del Štepánek, L., J. De H 2011. Armer, T.: Cambridge Ims.upjs.sk	<b>ture:</b> ademic Vocabulary Practice. OUP, 2017. ňová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. o ŠafárikPress, 2021. zenfeld, J. Developing Academic English in Speaking and Writing. kPress, 2021. 1, F.: Academic Vocabulary in Use. CUP, 2008. aff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., e English for Scientists. CUP, 2011.
<b>Course language:</b> English, level B2 acc	ording to CEFR
Notes:	

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

COURSE INFORMATION LETTER				
University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: CJP/ AJD2/07Course name: English Language for PhD Students 2				
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:				
<b>Conditions for course completion:</b> Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS)				
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 effectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2.				
<b>Brief outline of the course:</b> 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. Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011. Armer, T.: Cambridge English for Scientists. CUP, 2011. Course language: B2 level according to CEFR				
Notes:				

Course assessment Total number of assessed students: 732					
N	Ne	Р	Pr	abs	neabs
0.27	0.0	93.72	1.09	4.78	0.14
Provides: Mgr. Zuzana Kolaříková, PhD.					
Date of last modification: 05.02.2024					
Approved: prof. RNDr. Renáta Oriňaková, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚCHV/ ZKC/04	Course name: International Currented Journal				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 20				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
<b>Conditions for cours</b> Publication od the pa	<b>Conditions for course completion:</b> Publication od the paper in journal registered in CC database.				
Learning outcomes:					
<b>Brief outline of the course:</b> Authorship or co-authorship of doctoral student on a paper published in a foreign journal registered in the Current Contents Connect database.					
Recommended literature:					
Course language: English language.					
Notes:					
Course assessment Total number of assessed students: 342					
	abs	n			
	99.71 0.29				
Provides:					
Date of last modification: 05.11.2021					
Approved: prof. RNDr. Renáta Oriňaková, DrSc.					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ ZC/22Course name: International	V/ Course name: International Journal			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS credits: 8				
Recommended semester/trimester of the course	2:			
Course level: III.				
Prerequisities:				
<b>Conditions for course completion:</b> Publication accepted in a foreign journal as an aut	thor/co-author.			
Learning outcomes: By publishing in a foreign journal as an author/co-author, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 0				
abs n				
0.0				
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Renáta Oriňaková, DrSc.				

University: P. J. Safárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ ZNC/04	ourse ID: ÚCHV/       Course name: International Non-Currented Jounal         NC/04       NC/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of asses	ssed students: 28		
abs n			
100.0 0.0			
Provides:			
Date of last modification: 15.09.2021			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			

University · P. I. Šafárik University in Košice				
Eaculty: Eaculty of Science				
Course ID: UCHV/ ZSP1/22	Course name: International Study Stay less than 30 Days			
Course type, scope a	nd the method:			
Course type:				
Recommended coul	rse-load (hours):			
Course method: pre	esent			
Number of ECTS cr	edits: 5			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
<b>Conditions for cours</b> Completion of a fore	e completion: ign study stay lasting less th	an 30 days.		
By completing a shorter study stay, the PhD student demonstrates the ability to reflect on research problems and work critically with sources at an expert level and in an interdisciplinary context, while being able to generate new knowledge. He is able to actively communicate at an expert level in more than one language. He acts as a responsible independent scientist, works independently and in a group with the aim of pushing the boundaries of knowledge and transferring them to other areas of research to practice and to the wider public. He can competently argue and explain his ideas				
Brief outline of the course:				
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 2				
	abs	n		
	100.0 0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Renáta Oriňaková, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚCHV/ ZSP2/22	Course name: International Study Stay more than 30 Days				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of ECTS cr	edits: 10				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
<b>Conditions for cours</b> Completion of a fore	se completion: ign study stay lasting more t	han 30 days.			
By completing the study stay, the PhD student demonstrates the ability to reflect on research problems and work critically with sources at an expert level and in an interdisciplinary context, while being able to generate new knowledge. He is able to actively communicate at an expert level in more than one language. He acts as a responsible independent scientist, works independently and in a group with the aim of pushing the boundaries of knowledge and transferring them to other areas of research, to practice and to the wider public. He can competently argue and explain his ideas.					
Brief outline of the course:					
Recommended litera	Recommended literature:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 3					
	abs	n			
	100.0 0.0				
Provides:					
Date of last modification: 08.11.2022					
Approved: prof. RNDr. Renáta Oriňaková, DrSc.					

University: P. J. Šafá	University: P. I. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚCHV/ MKZ/22	rse ID: ÚCHV/ Course name: International conference abroad			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 10			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
<b>Conditions for cours</b> Active participation i	e completion: n an international conference	e abroad.		
Learning outcomes: By actively participating in an international scientific conference abroad, the phD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence to use existing theories and concepts in an innovative way, as well as generate new original scientific knowledge and communicate research results to a wider audience by adequate means and through a foreign language.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 22				
abs n				
	100.0 0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Renáta Oriňaková, DrSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ DK/04	Course name: Local Conference			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cro	edits: 2			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
<b>Conditions for cours</b> Active participation i	e completion: n the home conference.			
By actively participating in the national scientific conference, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence in using existing theories and concepts in an innovative way, as well as generating new original scientific knowledge and communicating research results to a wider audience using adequate means and through the Slovak language.				
Brief outline of the course:				
Recommended litera	ture:			
Course language:	Course language:			
Notes:				
Course assessment Total number of assessed students: 128				
	abs	n		
	100.0 0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Renáta Oriňaková, DrSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ DKZU/22	Course name: Local Conference with Foreign Participation			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	edits: 5			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
<b>Conditions for cours</b> Active participation i	e completion: n a national conference with	n foreign participation.		
By actively participating in a scientific conference, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence to use existing theories and concepts in an innovative way, as well as generate new original scientific knowledge and communicate research results to a wider audience by adequate means and through Slovak or a foreign language.				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 15				
abs n				
	100.0 0.0			
Provides:				
Date of last modification: 08.11.2022				
Approved: prof. RNDr. Renáta Oriňaková, DrSc.				
University: P. J. Šafá	rik University in Koši	ce		
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Faculty: Faculty of Science				
Course ID: ÚCHV/ DKC/04	Course name: Loca	Currented Journal		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent			
Number of ECTS cr	edits: 15			
Recommended seme	ster/trimester of the	course:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	Brief outline of the course:			
Recommended litera	ture:			
Course language:	Course language:			
Notes:	Notes:			
Course assessment Total number of asses	ssed students: 10			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	tion: 15.09.2021			
Approved: prof. RNI	Dr. Renáta Oriňaková,	DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ Course name: Local Journa	al		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits: 6			
Recommended semester/trimester of the course	:		
Course level: III.			
Prerequisities:			
<b>Conditions for course completion:</b> Publication accepted in a national journal as autho	pr/co-author.		
By publishing in a national journal as an author/co-author, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
abs	n		
0.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			

University. P. I. Šafá	rik University in Košice		
University: P. J. Salarik University in Kosice			
Faculty: Faculty of Science			
Course ID: ÚCHV/	Course name: Local Non-	Currented Journal	
DNC/04			
Course type, scope a	nd the method:		
Course type:			
Recommended cour	rse-load (hours):		
Per week: Per stud	ly period:		
Course method: pre	esent		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment			
Total number of assessed students: 18			
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ IMS1/03Course name: Mass Spectrometric Identification			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present			
Number of ECTS credits: 4			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course: General principles of mass spectrometry. Analytical mass spectrometry. Detectors in mass spectrometry and resolution. Quadrupoles, ion traps, TOF analyzers. Analytes ionization, molecular spectra obtained from different ion sources. Identification with MS. Determination of molar mass. Fragmentation, spectra, and structural information. Identification by spectra comparison. Total ion current. Monitoring of selected ion/fragment. The use of hyphenated and coupled chromatographic methods. Tandem MS-MS, GC-MSD, HPLC-MS, microcolumn application. MALDI ToF MS, ToF SIMS and methods of surface analysis. Evaluation of mass spectrum			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 2			
A B C D E FX N P			
50.0 0.0 0.0 0.0 0.0 0.0 50.0			
Provides: prof. RNDr. Andrej Oriňak, PhD.			
Date of last modification: 07.11.2022			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ SIG/22	<b>D:</b> ÚCHV/ <b>Course name:</b> Member of the internal project team		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 3		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Co-worker of project	se completion: supported by internal grant	schemes (VVGS)	
The PhD student dem to the solution of the the internal VVGS g established procedure and participate in the practical course of the	nonstrates the ability to parti- ne project objective within grant, he acquires the ability e, adhere to the project sched e creation of outputs. The l e grant project.	cipate in teamwork, to bring his own contribution the internal grant system at UPJŠ. By solving to implement the project plan according to the ule, coordinate his own activities with colleagues, PhD student gains valuable experience from the	
Brief outline of the c	Brief outline of the course:		
Recommended litera	nture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 15			
	abs	n	
	100.0 0.0		
Provides:	Provides:		
Date of last modification: 08.11.2022			
Approved: prof. RNI	Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

×	·		
University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ POVK/22	Course name: Membership in a Conference organizing Committee		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 3		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Work in the organizin	e completion:	nce	
By working in the organizing committee of the conference, the PhD student demonstrates the abilities and competences to organize a scientific or professional event independently or in a team, to manage the implementation in terms of time and content, to communicate effectively verbally and in writing using various technical means as needed, including in a foreign language at a professional level with various types of people, if necessary, correctly recommend solutions or make independent decisions.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 1			
	abs	n	
	100.0 0.0		
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.		

University: P. J. Safárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ MONB/22Course name: Monograph		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 20		
Recommended semester/trimester of the course:		
Course level: III.		
Prerequisities:		
<b>Conditions for course completion:</b> Co-author of the monograph.		
By publishing a monograph, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. It demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The doctoral student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 0		
abs n		
0.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
<b>Course ID:</b> ÚCHV/ MONA/22	Course name: Monograph	in a renowned publishing house	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cro	edits: 40		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Co-author of a monog	e completion: graph in a renowned publish	ing house.	
By publishing a monograph in a renowned publishing house, the PhD student demonstrates a high level of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The doctoral student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.			
Brief outline of the c	ourse:		
Recommended literature:			
<b>Course language:</b>	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	Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ Course name: Non-Review NRZ/22	<b>D:</b> ÚCHV/ <b>Course name:</b> Non-Reviewed International or National Proceedings		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits: 2			
Recommended semester/trimester of the cours	e:		
Course level: III.			
Prerequisities:			
<b>Conditions for course completion:</b> A publication published in a non-reviewed foreig	gn or national journal as an author/co-author.		
By publishing in a non-reviewed foreign or national journal as an author/co-author, the PhD student demonstrates the ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The phD student demonstrates the ability to finalize his own thoughts in a written speech.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 9			
abs	n		
100.0 0.0			
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Renáta Oriňaková, DrSc			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚCHV/ NZ/04	Course ID: ÚCHV/ Course name: Not-Reviewed International or Local Proceedings		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 195		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrS	с.	

University: P. J. Šafán	rik University in Košic	e	
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ PVS/04	Course name: Patents, Inventions, Software		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: se-load (hours): y period: sent		
Number of ECTS cro	edits: 2		
Recommended seme	ster/trimester of the c	ourse:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Patent filed, invention	e completion: n, software product cre	ated.	
<b>Learning outcomes:</b> The PhD student dem or with impact on an	onstrates the ability to interdisciplinary scale	create an innovative product in a given scientific field, or in 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.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: KPE/ PgVU/17	Course name: Pedagogy for University Teachers		
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: dis	nd the method: e rse-load (hours): y period: 28s tance, present		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cours 1. Development of a 2. Compulsory active	e completion: teaching diary—100% participation and attendance in accordance with the Study Regulations.		
Students will be able Apply didactic princip the educational proce evaluation of learnin possibilities in the tea teachers taking into a	to: ples, methods, forms, and tools in the teaching of a specialised subject. Specify edures of a university teacher in subject teaching, pedagogical diagnostics, ng outcomes, and self-reflection. Present rationalisation and streamlining aching of specialised subjects. Apply educational competencies of university ccount the peculiarities of educating university students.		
<b>Brief outline of the c</b> The personality of a learning styles. Poss teacher–student intera of a university teach Forms of university assessment. Creation self-reflection.	ourse: university teacher. Teaching styles. Student in university education. Student ibilities of adapting teaching styles and student learning styles. University action 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 of a didactic test. Designing university teaching process. University teacher		
Recommended litera Čapek, R. (2015). Mo Publishing, a.s. Danek, J. (2014). Pec Metoda v Trnave. Dargová, J. (2001). T Dvořáček, J. (2014). Hupková, M., Petlák, Kyriacou, CH. (1996 Mertin, V. a kol. (201 Wolters Kluwer. Petty,G. (2013). Mod	<ul> <li>nture:</li> <li>oderní didaktika. Lexikon výukových a hodnoticích metod. Praha, Grada</li> <li>lagogická komunikácia na vysokej škole. Trnava, Univerzita sv.Cyrila a</li> <li>vorivé kompetencie učiteľa. Prešov, Privat Press.</li> <li>Základy pedagogiky. Praha, Oeconomica.</li> <li>E. (2004). Sebareflexia a kompetencie v práci učiteľa. Bratislava, IRIS.</li> <li>). Klíčové dovednosti učitele. Praha, Portál.</li> <li>2). Metody a postupy poznávaní žáka: pedagogická diagnostika. Praha,</li> </ul>		

<ul> <li>Prucha, J. (2013). Moderní pedagogika. Praha, Portál.</li> <li>Sirotová, M. (2014). Vysokoškolský učiteľ v edukačnom procese. Trnava, Univerzita sv.Cyrila a Metoda v Trnave.</li> <li>Slávik, M. a kol. (2012). Vysokoškolská pedagogika. Praha, Grada.</li> <li>Šebeň Zaťková, T. (2014). Úvod do vysokoškolskej pedagogiky. Trnava, Univerzita sv.Cyrila a Metoda v Trnave.</li> <li>Turek, I. (2014). Didaktika. Bratislava, Wolters Kluwer, s.r.o.</li> <li>Zormanová, L. (2014). Obecná didaktika. Praha, Grada.</li> </ul>		
Course language: slovak		
Notes:		
Course assessment Total number of assessed students: 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 Oriňaková, 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		
N	Р	
0.0	0.0	
Provides: doc. RNDr. Miroslav Almáši, PhD.		
Date of last modification: 25.11.2021		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
<b>Course ID:</b> ÚCHV/ POPV/22	Course name: Popularisation of science	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cro	edits: 5	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for cours</b> Active involvement in	e <b>completion:</b> 1 the popularization of scier	ice.
Learning outcomes: Demonstrated ability to present science to the lay public, use interactive methods of scientific communication, identify the target group and adapt the communication language to the level of professional knowledge. A PhD student is able to arouse interest and motivate specific target groups in the field of his scientific work, but also in the wider context of science		
Brief outline of the c	ourse:	
<b>Recommended litera</b>	ture:	
Course language:		
Notes:		
<b>Course assessment</b> Total number of asses	sed students: 16	
	abs	n
	100.0	0.0
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ Course name: Presentatio VYS/22	Irse ID: ÚCHV/       Course name: Presentation in Seminar         S/22       S/22	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 5		
Recommended semester/trimester of the course	se:	
Course level: III.		
Prerequisities:		
<b>Conditions for course completion:</b> Presentation at the seminar		
By actively participating in the seminar, the PhD student demonstrates the ability to identify, evaluate, and apply correct scientific methods or research methodology in his field of study. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence in using existing theories and concepts in an innovative way, as well as generating new original scientific knowledge and communicating research results by adequate means and through Slovak or a foreign language		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 4		
abs	n	
100.0	0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafá	rik University in Košice	2	
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VYS/04	Course ID: ÚCHV/ Course name: Presentation in Seminar VYS/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the co	ourse:	_
Course level: 111.	Course level: III.		
Prerequisities:	Prerequisities:		
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
<b>Course assessment</b> Total number of asses	ssed students: 191		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modification: 15.09.2021			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			

Conversity: P. J. Safarik University in Kosice         Faculty: Faculty of Science         Course ID: ÚCHV/       Course name: Principal investigator of an internal grant (VVGS)         ZRG/22       Course type, scope and the method:         Course type:       Recommended course-load (hours):         Per week: Per study period:       Course type;         Course type interfective for the course:       Course type;         Number of ECTS credits: 10       Recommended semester/trimester of the course:         Course level: III.       Prerequisities:         Conditions for course completion:       Principal investigator of an internal grant (VVGS)         Learning outcomes:       The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJS. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal vVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results.         Brief outline of the course:       Recommended literature:         Course language:       Number of the course:		
Faculty: Faculty of Science         Course ID: ÚCHV/       Course name: Principal investigator of an internal grant (VVGS)         ZRG/22       Course type, scope and the method:         Course type:       Recommended course-load (hours):         Per week: Per study period:       Course type:         Course method: present       Mumber of ECTS credits: 10         Recommended semester/trimester of the course:       Course type:         Course level: III.       Prerequisities:         Conditions for course completion:       Principal investigator of an internal grant (VVGS)         Learning outcomes:       The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJS. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal grant system at UPJS. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of product. The very solution of the internal grant system at UPJS. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal grant system at UPJS. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal grant system is project management, its administration, and presentation of results.         Brief outline of the course:       Recommended literature:         Cou		
Course ID: ÚCHV/       Course name: Principal investigator of an internal grant (VVGS)         ZRIG/22       Course type, scope and the method:         Course type:       Recommended course-load (hours):         Per week: Per study period:       Course method:         Course method: present       Number of ECTS credits: 10         Recommended semester/trimester of the course:       Course level: III.         Prerequisities:       Conditions for course completion:         Principal investigator of an internal grant (VVGS)       Learning outcomes:         The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results.         Brief outline of the course:         Recommended literature:         Course language:		
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: Principal investigator of an internal grant (VVGS) Learning outcomes: The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results. Brief outline of the course: Recommended literature: Course language: Net the stable of the course in the stable of the stable of the stable of the course		
Number of ECTS credits: 10         Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Principal investigator of an internal grant (VVGS)         Learning outcomes:         The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results.         Brief outline of the course:         Recommended literature:         Course language:		
Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Principal investigator of an internal grant (VVGS)         Learning outcomes:         The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results.         Brief outline of the course:         Recommended literature:         Course language:		
Course level: III. Prerequisities: Conditions for course completion: Principal investigator of an internal grant (VVGS) Learning outcomes: The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results. Brief outline of the course: Course language:		
Prerequisities: Conditions for course completion: Principal investigator of an internal grant (VVGS) Learning outcomes: The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results. Brief outline of the course: Course language:		
Conditions for course completion: Principal investigator of an internal grant (VVGS) Learning outcomes: The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results. Brief outline of the course: Recommended literature: Course language:		
Learning outcomes:         The PhD student demonstrates the ability to process a successful application for his own research problem within the internal grant system at UPJŠ. Acquires skills with the design of research stages, their time schedule, measurable outputs and adequate distribution of funds. The very solution of the internal VVGS grant acquires the ability to implement the project intention according to the established procedure, to be responsible for achieving the set outputs. As a responsible researcher, the PhD student acquires competencies in project management, its administration, and presentation of results.         Brief outline of the course:         Course language:		
Brief outline of the course: Recommended literature: Course language:		
Recommended literature: Course language:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 10		
abs n		
100.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Annual much DND Dentite Original (DD C		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of	Faculty: Faculty of Science		
Course ID: KPPaPZ/PsVU/17	Course name: Psychology for University Lecturers		
Course type, scope Course type: Lectu Recommended cou Per week: Per stu Course method: di	Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 28s Course method: distance present		
Number of ECTS c	redits: 5		
Recommended sem	ester/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cour Case study, micro-o Current modification	<b>se completion:</b> utput, its analysis ns of the course are listed in the electronic bulletin board of the course.		
Learning outcomes: After completing the course, students can: and Understand, summarize and explain selected psychological knowledge from cognitive psychology, emotion and motivation psychology, personality psychology, developmental, social, educational psychology and health psychology. b) apply the above psychological knowledge necessary for the professional, competent performance of university teaching practice of doctoral students c) to create and implement the teaching of a professional topic with applied psychological knowledge d) evaluate their performance and the performance of their classmates, provide feedback			
Brief outline of the course: The content of the course is based on selected psychological knowledge of cognitive psychology, psychology of emotions and motivation, personality psychology, developmental, social, educational psychology and health psychology. Teaching is realized by a combination of lectures with interactive, experiential methods, discussion, open communication with mutual respect, support of independence, activity and motivation of students. Syllabus: University teacher and his work in the teaching process with a focus on: teachers in relation to themselves (cognitive, personal, social and competencies in the use of methods), in relation to students and as part of the teacherstudent relationship on the basis of selected areas of cognitive psychology, psychology and health psychology with application to the university environment Recommended literature:			
Alexitch, L. R. (200 Schneider F., Gruma Fry, H., Ketteridge, education: Enhancir Mareš, J.: Pedagogio	<ul> <li>5). Applying social psychology to education. Social Psychology.–Ed.:</li> <li>In J., Coutts L.–Sage Publications, Inc, 205-228.</li> <li>S., &amp; Marshall, S. (2008). A handbook for teaching and learning in higher is academic practice. Routledge.</li> <li>cká psychologie. Portál, 2013.</li> </ul>		

Kniha psychologie. Universum, 2 Čáp, J., Mareš, J.: Psychologie pr Vágnerová, M.: Školní poradensk	014 o učitele. Praha: Portál 2007. á psychológie pro pedagogy. P	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, PhD.			
Date of last modification: 24.06.2022			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ Course name: Q1 journal Q1SA/22	as co-author	
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:		
<b>Conditions for course completion:</b> Publication accepted in a journal of category Q1	as co-author.	
By publishing in a journal of category Q1 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 1		
abs	n	
100.0	0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Safárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ Course name: Q1 journa Q11A/22	al as first or corresponding author		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits: 40			
Recommended semester/trimester of the cou	rse:		
Course level: III.			
Prerequisities:			
<b>Conditions for course completion:</b> Publication accepted in a journal of category Q	1 as first or corresponding author.		
By publishing in a journal of category Q1 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 2			
abs	n		
100.0	0.0		
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			

University: P. J. Šafárik Uni	versity in Košice	
Faculty: Faculty of Science		
Course ID: ÚCHV/ Cours Q2SA/22	Course ID: ÚCHV/ Course name: Q2 journal as co-author Q2SA/22	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 2	20	
Recommended semester/tri	mester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for course comp</b> Publication accepted in a jou	<b>Detion:</b> urnal of category Q2 :	as co-author.
By publishing in a journal of category Q2 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 4		
abs	abs n	
100.0	100.0 0.0	
Provides:	Provides:	
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ Q21A/22	Course ID: ÚCHV/ Course name: Q2 journal as first or corresponding author Q21A/22	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cr	edits: 30	
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 first or corresponding author.
By publishing in a journal of category Q2 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
<b>Course assessment</b> Total number of asses	ssed students: 11	
	abs	n
	100.0 0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

Faculty: Faculty of Science         Course ID: UCHV/ Q3SA/22       Course name: Q3 journal as co-author         Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present       Course type: Recommended semester/trimester of the course:         Number of ECTS credits: 15       Recommended semester/trimester of the course:         Course level: III.       Prerequisities:         Conditions for course completion: Publication accepted in a journal of category Q3 as co-author.       Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology.         He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:       Course language: Notes:         Course language:       Notes:         Course assessment 100.0       0.0         100.0       0.0         Provides:       Date of last modification: 08.11.2022	University: P. J. Šafá	rik University in Košice	
Course ID: ÚCHV/ Q3SA/22       Course name: Q3 journal as co-author         Q3SA/22       Course type, scope and the method: Course type;       Recommended course-load (hours): Per week: Per study period: Course method: present         Number of ECTS credits: 15       Recommended semester/trimester of the course: Course level: III.         Prerequisities:       Conditions for course completion: Publication accepted in a journal of category Q3 as co-author.         Learning outcomes: By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:       Recommended literature:         Course language:       Notes:         Course language:       Notes:         Course language:       0.0         Notes:       Date of last modification: 08.11.2022	Faculty: Faculty of Science		
Course type, scope and the method:         Course type:         Recommended course-load (hours):         Per week: Per study period:         Course method: present         Number of ECTS credits: 15         Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Publication accepted in a journal of category Q3 as co-author.         Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology.         He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:         Recommended literature:         Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:       Date of last modification: 08.11.2022	Course ID: ÚCHV/ Q3SA/22	Course ID: ÚCHV/ Course name: Q3 journal as co-author Q3SA/22	
Number of ECTS credits: 15         Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Publication accepted in a journal of category Q3 as co-author.         Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology.         He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:       Recommended literature:         Course language:       Notes:         Notes:	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Publication accepted in a journal of category Q3 as co-author.         Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:         Recommended literature:         Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	Number of ECTS cr	edits: 15	
Course level: III.         Prerequisities:         Conditions for course completion:         Publication accepted in a journal of category Q3 as co-author.         Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:         Recommended literature:         Course language:         Notes:         Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	Recommended seme	ster/trimester of the cours	e:
Prerequisities:         Conditions for course completion:         Publication accepted in a journal of category Q3 as co-author.         Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:         Recommended literature:         Course language:         Notes:         Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	Course level: III.		
Conditions for course completion:         Publication accepted in a journal of category Q3 as co-author.         Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:         Recommended literature:         Course language:         Notes:         Quist abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	Prerequisities:		
Learning outcomes:         By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.         Brief outline of the course:         Recommended literature:         Course language:         Notes:         abs         100.0       0.0         Provides:         Date of last modification: 08.11.2022	<b>Conditions for cours</b> Publication accepted	e completion: in a journal of category Q3	as co-author.
Brief outline of the course:         Recommended literature:         Course language:         Notes:         Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	By publishing in a journal of category Q3 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Recommended literature:         Course language:         Notes:         Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	Brief outline of the course:		
Course language:   Notes:   Course assessment   Total number of assessed students: 5   abs   100.0   0.0   Provides: Date of last modification: 08.11.2022	Recommended literature:		
Notes:       Course assessment         Total number of assessed students: 5       n         abs       n         100.0       0.0         Provides:	Course language:		
Course assessment         Total number of assessed students: 5         abs       n         100.0       0.0         Provides:         Date of last modification: 08.11.2022	Notes:		
abs       n         100.0       0.0         Provides:	Course assessment Total number of assessed students: 5		
100.0         0.0           Provides:		abs	n
Provides: Date of last modification: 08.11.2022		100.0 0.0	
Date of last modification: 08.11.2022	Provides:		
	Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.	Approved: prof. RNI	Approved: prof. RNDr. Renáta Oriňaková, DrSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚCHV/ Q31A/22	Course name: Q3 journal	as first or corresponding author
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cr	edits: 25	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for cours</b> Publication accepted	e completion: in a journal of category Q3	as first or corresponding author
By publishing in a journal of category Q3 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 3	
	abs	n
	100.0 0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

Faculty: Faculty of Science		
Course ID: ÚCHV/ Course name: Q4 journal as co-author Q4SA/22		
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:		
<b>Conditions for course completion:</b> Publication accepted in a journal of category Q4 as co-author.		
By publishing in a journal of category Q4 as a co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 1		
abs n		
100.0 0.0		
Provides:		
Date of last modification: 08.11.2022		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ Q41A/22	Course name: Q4 journal a	as first or corresponding author
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cro	edits: 20	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for cours</b> Publication accepted	e completion: in a journal of category Q4	as first or corresponding author.
By publishing in a journal of category Q4 as the first or corresponding author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
<b>Course assessment</b> Total number of asses	ssed students: 0	
	abs	n
	0.0	0.0
Provides:	Provides:	
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/ RZ/04	Course name: Review	ed International or Local Proceedings
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): y period: esent	
Number of ECIS cr		
Recommended seme	ster/trimester of the co	
Course level: III.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 367	
	abs	n
	100.0	0.0
Provides:		1
Date of last modifica	tion: 15.09.2021	
Approved: prof. RNI	Dr. Renáta Oriňaková, D	rSc.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚCHV/ RZ/22	Course name: Reviewed I	nternational or Local Proceedings
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for cours</b> A publication publish	e completion: ed in a peer-reviewed foreig	n or national proceedings as an author/co-author.
By publishing in a peer-reviewed foreign or national journal as an author/co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to critically evaluate and respond to reviewers' suggestions, to finalize his own ideas		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
<b>Course assessment</b> Total number of asses	ssed students: 46	
	abs	n
100.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚCHV/ SCI/22	se ID: ÚCHV/ Course name: SCI Citation 2	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cr	edits: 8	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation reg	e completion: istered in SCI or Scopus.	
Learning outcomes: Obtaining a citation demonstrates broad and very well-founded scientific knowledge in the researched field, based on the ability to formulate research questions, to reflect on a scientific problem in such a way that generates new knowledge. At the same time, a citation in an indexed source demonstrates the competence to communicate new knowledge, which is a significant contribution to scientific knowledge, at the highest expert level.		
brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 13		
	abs	n
	100.0 0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNI	Approved: prof. RNDr. Renáta Oriňaková, DrSc.	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ Course name: Scientific work after sending to the editorial office VPZ/22		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 5		
Recommended semester/trimester of the course:		
Course level: III.		
Prerequisities:		
<b>Conditions for course completion:</b> Scientific work after being sent to the editorial office as an author/co-author.		
By sending a manuscript to the editors of a scientific journal as an author/co-author, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology. He demonstrates the ability to reflect on a scientific problem by using the latest approaches and applying them critically. He demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he can publish according to the highest qualitative and ethical standards of the field. The PhD student demonstrates the ability to formulate his own ideas in a structured form.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 2		
abs n		
100.0 0.0		
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, DrSc.		

<b>University:</b> P. J. Safarik	University	/ In Kosice
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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. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ VPSV/22	Course name: Supervision of a Students Scientific Work		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits: 8			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for course completion: Supervision of Student's Scientific Activity			
<b>Learning outcomes:</b> By guiding a student within the SOČ or ŠVOČ, the PhD student demonstrates broad and scientifically based knowledge in the field of study, as well as knowledge of a wide range of methods and approaches. Demonstrates the ability to critically assess a professional problem and its proposed solution, as well as to evaluate it and possibly propose another solution. He applies knowledge and skills from the field of pedagogical sciences to his own field.			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 4			
	abs	n	
	100.0	0.0	
Provides:			
Date of last modification: 08.11.2022			
Approved: prof. RNDr. Renáta Oriňaková, DrSc.			
University: P. J. Šafá	rik University in Košice		
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Faculty: Faculty of S	cience		
Course ID: ÚCHV/ PPC1/22	Course name: Teaching activities 1 h/s		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Direct teaching activit	e completion: ity 1 semester hour		
Through pedagogical knowledge from his right techniques and learning outcomes. H in accordance with co communication and c	l activity, the PhD student of own field of study into strategies of study group n Ie is capable of designing a urrent trends in higher educa- ligital competencies.	demonstrates the ability to transfer and integrate education. He is able to select and apply the nanagement, higher education and evaluation of nd implementing part of the educational process ation and the requirements placed on the level of	
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 8			
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	ition: 08.11.2022		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ PPC2/22	Course name: Teaching activities 2 h/s	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent	
Number of ECTS cr	edits: 4	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
<b>Conditions for cours</b> Direct teaching activity	e completion: ity 2 semester hours	
Through pedagogical knowledge from his right techniques and learning outcomes. H in accordance with co communication and c	l activity, the PhD student of own field of study into strategies of study group n Ie is capable of designing a urrent trends in higher educa- ligital competencies.	demonstrates the ability to transfer and integrate education. He is able to select and apply the nanagement, higher education and evaluation of nd implementing part of the educational process ation and the requirements placed on the level of
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of assessed students: 9		
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.	

Faculty: Faculty of Science		
Course De ÚCIN// Course nomes Teaching a stistica 2 h/s		
PPC3/22 Course name: Teaching activities 3 h/s		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 6		
Recommended semester/trimester of the course:		
Course level: III.		
Prerequisities:		
Conditions for course completion: Direct teaching activity 3 semester hours		
Through pedagogical activity, the PhD student demonstrates the ability to transfer and integrate knowledge from his own field of study into education. He is able to select and apply the right techniques and strategies of study group management, higher education and evaluation of learning outcomes. He is capable of designing and implementing part of the educational process in accordance with current trends in higher education and the requirements placed on the level of communication and digital competencies.		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 1		
abs n		
100.0 0.0		
Provides:		
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		
<b>Course ID:</b> ÚCHV/ PPC4/22	Course name: Teaching activities 4 h/s		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 8		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
<b>Conditions for cours</b> Direct teaching activit	Conditions for course completion: Direct teaching activity 4 semester hours		
Through pedagogical knowledge from his right techniques and learning outcomes. H in accordance with co communication and c	l activity, the PhD student of own field of study into strategies of study group n Ie is capable of designing a urrent trends in higher educa- ligital competencies	demonstrates the ability to transfer and integrate education. He is able to select and apply the nanagement, higher education and evaluation of nd implementing part of the educational process ation and the requirements placed on the level of	
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 7			
	abs	n	
	100.0	0.0	
Provides:			
Date of last modifica	tion: 08.11.2022		
Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: ÚCHV/ KZP/22Course name: Thesis course name: The second name:	Course name: Thesis consultant	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS credits: 4		
Recommended semester/trimester of the cou	Irse:	
Course level: III.		
Prerequisities:		
<b>Conditions for course completion:</b> Final thesis consultant.		
By consulting the final thesis, the PhD stu knowledge in the field of study, as well as knowledge in the field of study, as well as knowledge the ability to critically assess a well as to evaluate it and possibly propose and the field of pedagogical sciences to his own fi	dent demonstrates broad and scientifically based wledge of a wide range of methods and approaches. professional problem and its proposed solution, as ther solution. He applies knowledge and skills from eld.	
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 30		
abs	n	
100.0	0.0	
Provides:		
Date of last modification: 08.11.2022		
Approved: prof. RNDr. Renáta Oriňaková, Dr	Sc.	

Faculty: Faculty of Science         Course ID: ÚCHV/ VZP/22       Course name: Thesis supervising VZP/22         Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present         Number of ECTS credits: 8         Recommended semester/trimester of the course: Course level: III.         Prerequisities:         Conditions for course completion: Supervisor of the final thesis.         Learning outcomes: By supervising the final thesis, the PhD student demonstrates broad and scientifically based knowledge in the field of study, as well as knowledge of a wide range of methods and approaches. Demonstrates the ability to critically assess a professional problem and its proposed solution, as well as to evaluate it and possibly propose another solution. He applies knowledge and skills from the field of pedagogical sciences to his own field.         Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 1	University: P. J. Šafá	rik University in Košice	
Course ID: ÚCHV/ VZP/22       Course name: Thesis supervising VZP/22         Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present         Number of ECTS credits: 8         Recommended semester/trimester of the course: Course level: III.         Prerequisities:         Conditions for course completion: Supervisor of the final thesis.         Learning outcomes: By supervising the final thesis, the PhD student demonstrates broad and scientifically based knowledge in the field of study, as well as knowledge of a wide range of methods and approaches. Demonstrates the ability to critically assess a professional problem and its proposed solution, as well as to evaluate it and possibly propose another solution. He applies knowledge and skills from the field of pedagogical sciences to his own field.         Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 1	Faculty: Faculty of S	cience	
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Date of last modification: 08.11.2022	Provides:		
	Date of last modifica	tion: 08.11.2022	
Approved: prof. RNDr. Renáta Oriňaková, DrSc.	Approved: prof. RNI	Dr. Renáta Oriňaková, DrSc	

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.

<b>University:</b> P. J. Safárik Univer	sitv ii	1 Košice
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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.

Faculty: Faculty of Science         Course ID: ÚCHV/         PDS/22       Course name: Writing Dissertation Work         PDS/22       Course type, scope and the method:         Course type, scope and the method:       Course type;         Recommended course-load (hours):       Per week: Per study period:         Course method: present       Course type:         Number of ECTS credits: 20       Recommended semester/trimester of the course:         Course level: III.       Prerequisities:         Prerequisities:       Conditions for course completion:         Obtaining the required number of credits in the prescribed composition according to the UPJŠ study regulations, preparation and defense of the thesis, successfull continuation of the study by fulfilling the conditions prescribed by the study regulations for successful continuation of the study by fulfilling the conditions prescribed by the study regulations for the study and scientific part of the doctoral study related to the topic of the dissertation.         Brief outline of the course:       Recommended literature:         Course language:       N         Notes:       P         0.0       100.0         Provides:       D         Date of last modification: 08.11.2022       Approved: prof. RNDr. Renáta Oriňaková. DrSc.	University: P. J. Šafárik University in Košice			
Course ID: ÚCHV/ PDS/22       Course name: Writing Dissertation Work         Course type, scope and the method: Course type; Recommended course-load (hours): Per weck: Per study period: Course method: present       Perevention:         Number of ECTS credits: 20       Recommended semester/trimester of the course: Course level: III.       Perequisities:         Prerequisities:       Conditions for course completion: Obtaining the required number of credits in the prescribed composition according to the UPJŠ study regulations, preparation and defense of the thesis, successfully completed dissertation examination.         Learning outcomes:       The PhD student demonstrated the prerequisites for successful continuation of the study by fulfilling the conditions prescribed by the study regulations for the study and scientific part of the doctoral study related to the topic of the dissertation.         Brief outline of the course:       Recommended literature:         Course language:       N       P         Notes:       N       P         0.0       100.0       100.0         Provides:       Date of last modification: 08.11.2022       Approved: prof. RNDr. Renáta Oriňaková. DrSc.	Faculty: Faculty of Science			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present         Number of ECTS credits: 20         Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Obtaining the required number of credits in the prescribed composition according to the UPJŠ study regulations, preparation and defense of the thesis, successfully completed dissertation examination.         Learning outcomes:         The PhD student demonstrated the prerequisites for successful continuation of the study by fulfilling the conditions prescribed by the study regulations for the study and scientific part of the doctoral study related to the topic of the dissertation.         Brief outline of the course:         Recommended literature:         Course language:         N       P         0.0       100.0         Provides:       D         Date of last modification: 08.11.2022         Approved: prof. RNDr. Renáta Oriňaková. DrSc.	Course ID: ÚCHV/ PDS/22	Course name: Writing Dissertation Work		
Number of ECTS credits: 20         Recommended semester/trimester of the course:         Course level: III.         Prerequisities:         Conditions for course completion:         Obtaining the required number of credits in the prescribed composition according to the UPJŠ study regulations, preparation and defense of the thesis, successfully completed dissertation examination.         Learning outcomes:         The PhD student demonstrated the prerequisites for successful continuation of the study by fulfilling the conditions prescribed by the study regulations for the study and scientific part of the doctoral study related to the topic of the dissertation.         Brief outline of the course:         Recommended literature:         Course language:         Notes:         Total number of assessed students: 8         N       P         0.0       100.0         Provides:         Date of last modification: 08.11.2022         Approved: prof. RNDr. Renáta Oriňaková. DrSc.	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
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Course language:       Ourse assessment         Notes:       Image: Course assessment         Total number of assessed students: 8       P         N       P         0.0       100.0         Provides:       Image: Course assessment         Date of last modification: 08.11.2022       Image: Course assessment         Approved: prof. RNDr. Renáta Oriňaková. DrSc.       Image: Course assessment	Recommended literature:			
Notes:       Course assessment         Total number of assessed students: 8       P         N       P         0.0       100.0         Provides:         Date of last modification: 08.11.2022         Approved: prof. RNDr. Renáta Oriňaková. DrSc.	Course language:			
Course assessment Total number of assessed students: 8         N       P         0.0       100.0         Provides:         Date of last modification: 08.11.2022         Approved: prof. RNDr. Renáta Oriňaková. DrSc.	Notes:			
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Approved: prof. RNDr. Renáta Oriňaková, DrSc.	Date of last modification: 08.11.2022			
<b>rrr</b>	Approved: prof. RNI			