

## Course descriptions

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## COURSE DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Academic year:</b> 2022/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| <b>Faculty:</b> Jessenius Faculty of Medicine in Martin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <b>Course ID:</b><br>JLF/3-JZSA-003/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Course title:</b><br>Basics of statistic analyses |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning, distance learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of Study: in person<br>Number of contact hours: 10 hours of lectures and 2 hours of practicals<br>per week: per level/semester: 12 hours during one day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
| <b>Course requirements:</b><br>Active participation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |
| <b>Learning outcomes:</b><br>Refreshing of the basics of statistical data analysis and statistical inferences. To know how to test hypotheses for the population mean. To understand the limitations of the nonparametric tests. To be able to decide between using parametric or nonparametric tests for a particular data. To be able to explore data, summarize data and test hypothesis for population mean as well as for contingency tables in jamovi. Ability to interpret results of statistical data analysis.                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <b>Class syllabus:</b><br>Population, sample, generalization, statistical inferences. Software jamovi. EDA – exploratory data analysis, histogram, density plot, boxplot, swarmplot, violin plot, quantile-quantile plot with 95% confidence band, assessment of normality. Descriptive statistic for location and scale, robustness. SD vs SEM. Confidence interval for the population mean. Fisher Null Hypothesis Significance Testing. Motivation for p-value, evidential scale. Neyman-Pearson hypothesis testing. Tests for the population mean: one-sample t test, Welch test, two sample t test, two sample paired t test, illustrative case studies. Nonparametric tests (WMW test, one sample and paired Wilcoxon test) and their limitations, illustrative case studies. Contingency tables. Chi-squared test and Fisher test, illustrative case studies. Practical in jamovi – three case studies in test selection. |                                                      |
| <b>Recommended literature:</b><br>KIRKWOOD Betty and Jonathan STERNE. Essential Medical Statistics. Wiley-Blackwell, 2003. ISBN 0865428719<br>NAVARRO Danielle and David FOXCROFT. Learning statistics with jamovi: a tutorial for psychology students and other beginners. <a href="http://www.learnstatswithjamovi.com">http://www.learnstatswithjamovi.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |

|                                                  |     |       |
|--------------------------------------------------|-----|-------|
| Slovak and English                               |     |       |
| <b>Notes:</b>                                    |     |       |
| <b>Past grade distribution</b>                   |     |       |
| Total number of evaluated students: 0            |     |       |
| ABS0                                             | M   | NEABS |
| 0,0                                              | 0,0 | 0,0   |
| <b>Lecturers:</b> doc. Mgr. Marián Grendár, PhD. |     |       |
| <b>Last change:</b> 08.08.2023                   |     |       |
| <b>Approved by:</b>                              |     |       |

## STATE EXAM DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Academic year:</b> 2022/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |
| <b>Faculty:</b> Jessenius Faculty of Medicine in Martin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |
| <b>Course ID:</b><br>JLF/3-PED-005/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Course title:</b><br>Dissertation Defense |
| <b>Number of credits:</b> 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
| <b>Course requirements:</b> <ul style="list-style-type: none"> <li>- obtaining at least 210 credits (in a 4-year full-time and 5-year part-time study)</li> <li>- submission of an application for a state examination permit - defense of the dissertation no later than 4 months before the date of completion of the standard length of study</li> <li>- authorship or co-authorship of a doctoral student of at least three scientific papers in extenso in internationally recognized journals registered in databases, such as Web of Science, Medline or SCOPUS as a basic condition for accepting an application for permission to defend a dissertation; in at least one of these works, the doctoral student is the first author</li> </ul>                                                                                                                                                              |                                              |
| <b>Learning outcomes:</b> <ul style="list-style-type: none"> <li>- the graduate of the field has mastered the principles and methodology of scientific work, from the ability to orient in the latest knowledge of the field, through scientific formulation of the problem, assessment of the ethical side of scientific work, planning and implementation of research, scientific processing of obtained data, their interpretation to their presentation, including in international fora, and possible proposals for their application in practice.</li> <li>- the graduate of the course Pediatrics 2 can work independently scientifically and bring their own solutions to problems in the field. He/she can contribute to the development of this field through scientific and teaching work</li> </ul>                                                                                                    |                                              |
| <b>Class syllabus:</b> <ul style="list-style-type: none"> <li>- scientific research on a current problem in the field or a multidisciplinary problem with a focus on Pediatrics</li> <li>- mastering the principles and methodology of scientific work in clinical research or experimental work, as well as the ethical and social aspects of scientific work up to the preparation of the text of a scientific publication in cooperation with the supervisor in in-form, especially in English</li> <li>- publishing and lecturing activities and active participation in scientific events</li> <li>- teaching activity (max. 4 hours per week / year = 208 hours / year = 104 hours / semester) only for full-time form</li> <li>- medical - preventive activity, while the doctoral student meeting the prescribed requirements is included in the specialization study to an appropriate extent.</li> </ul> |                                              |
| <b>State exam syllabus:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |
| <b>Recommended literature:</b> <p>Šagát, T., Šašík, M., Kovács, L., Bánovčin, P. a kol. Pediatria I,II. Bratislava: Herba 2019. 1736 s. ISBN 978-80-89631-90-2</p> <p>Jakušová Ľ., Buchanec, J., Bánovčin, P. a kol.: Dorastové lekárstvo. Martin: Osveta, 1: vydanie, 2014. ISBN 978-80-8063-419-3</p> <p>Jeseňák, M., Bánovčin, P. a kol. Vrodené poruchy imunity. Bratislava: A-medi manažment</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |

s.r.o. 2014 580 s. ISBN 978-80-970825-6-7  
 K. Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254s.,  
 ISBN: 9788089694808  
 L.Časnocha Lúčanová: Infekcie novorodencov. P+M Turany, 2019,  
 120s., ISBN: 9788089694600  
 Bánovčin, P., Zibolen, M. a kol. Základné informácie o materskom mlieku a dojčení pre  
 pracovníkov v zdravotníctve. Bratislava: A-medi manažment s.r.o. 2016, 112 s. ISBN:978-80-  
 89797-17-2  
 Fedor, M. a kol.: Intenzivní péče v pediatrii. Osveta, 2006, 461 s., ISBN 8080632170  
 European Resuscitation Council Guidelines 2021. voľne dostupný internetový zdroj:  
<https://cprguidelines.eu/>  
 Nichols, D.G. a kol.: Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott  
 Williams Wilkins, 2008. 1839 s.  
 Časopis Pediatria /vyd. SAMEDI Bratislava

**Languages necessary to complete the course:**

Slovak language / English language

**Last change:** 21.08.2023

**Approved by:**

## STATE EXAM DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Academic year:</b> 2022/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
| <b>Faculty:</b> Jessenius Faculty of Medicine in Martin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |
| <b>Course ID:</b><br>JLF/3-PED-004/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Course title:</b><br>Dissertation Examination |
| <b>Number of credits:</b> 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |
| <b>Course requirements:</b> <ul style="list-style-type: none"> <li>- obtaining at least 60 credits, including 20 credits for mandatory courses of the Methodology of Scientific Work, Introductory of Statistical Analysis and Examination in a Foreign / World Language as a condition for granting consent to take a dissertation exam (DE)</li> <li>- registration for DE within 24 months from the beginning of the study (in a 4-year full-time study)</li> <li>- registration for DE within 30 months from the beginning of the study (in a 5-year external study)</li> <li>- elaboration of a written part for the dissertation exam</li> <li>- successful answering of 2 theoretical questions from the field of Pediatrics and presentation of the basic theses of the written part of the dissertation exam</li> </ul> |                                                  |
| <b>Learning outcomes:</b> <ul style="list-style-type: none"> <li>- the graduate of the subject Pediatrics 1 has deep theoretical knowledge, based on the current state of scientific knowledge in the field of pediatrics to the extent necessary for the implementation of doctoral studies</li> <li>- the graduate is capable of independent scientific work and brings his own solutions to problems in the field of pediatrics</li> <li>- masters research methods in the field of pediatrics, especially with a focus on methods of clinical and clinical-epidemiological research</li> </ul>                                                                                                                                                                                                                               |                                                  |
| <b>Class syllabus:</b> <ul style="list-style-type: none"> <li>- theoretical knowledge in the field of Pediatrics to the extent necessary to solve a given scientific problem</li> <li>- knowledge in the field of pathogenesis, diagnosis, differential diagnosis, therapy, treatment and prevention of pediatrics</li> <li>- language skills needed to obtain scientific information from foreign sources and present research results in foreign journals and at international conferences</li> <li>- pedagogical activity (max. 4 hours per week / year = 208 hours / year = 104 hours / semester) only for full-time form</li> <li>- medical - preventive activity, while the doctoral student meeting the prescribed requirements is included in the specialization study to an appropriate extent.</li> </ul>              |                                                  |
| <b>State exam syllabus:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
| <b>Recommended literature:</b> <p>Šagát, T., Šašinka, M., Kovács, L., Bánovčin, P. a kol. <i>Pediatrica I,II</i>. Bratislava: Herba 2019. 1736 s. ISBN 978-80-89631-90-2</p> <p>Jakušová Ľ., Buchanec, J., Bánovčin, P. a kol.: <i>Dorastové lekárstvo</i>. Martin: Osveta, 1: vydanie, 2014. ISBN 978-80-8063-419-3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |

Jeseňák, M., Bánovčín, P. a kol. Vrodené poruchy imunity. Bratislava: A-medi manažment s.r.o. 2014 580 s. ISBN 978-80-970825-6-7

K. Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254s., ISBN: 9788089694808

L.Časnocha Lúčanová: Infekcie novorodencov. P+M Turany, 2019, 120s., ISBN: 9788089694600

Bánovčín, P., Zibolen, M. a kol. Základné informácie o materskom mlieku a dojčení pre pracovníkov v zdravotníctve. Bratislava: A-medi manažment s.r.o. 2016, 112 s. ISBN:978-80-89797-17-2

Fedor, M. a kol.: Intenzivní péče v pediatrii. Osveta, 2006, 461 s., ISBN 8080632170

European Resuscitation Council Guidelines 2021. voľne dostupný internetový zdroj: <https://cprguidelines.eu/>

Nichols, D.G. a kol.: Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s.

Časopis Pediatria /vyd. SAMEDI Bratislava

**Languages necessary to complete the course:**

Slovak language / English language

**Last change:** 10.08.2023

**Approved by:**

## COURSE DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Academic year:</b> 2022/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |
| <b>Faculty:</b> Jessenius Faculty of Medicine in Martin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |
| <b>Course ID:</b><br>JLF/3-JCJ-002/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Course title:</b><br>Foreign Language |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning, distance learning                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of teaching: full-time / part-time<br>Type, scope, and method of educational activities:<br>- self-study (course) in the range of 1-2 semesters depending on the basic knowledge of English / German<br>- consultations before the exam in the range of about 4-6 hours<br>- methods: self-study / full-time method / online consultation / e-mail contact<br>Recommended range of teaching (in hours): Weekly: During the study period<br>Study method: full - time, part - time, part - time, combined |                                          |
| <b>Number of credits:</b> 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |
| <b>Course requirements:</b><br>- command of a foreign language at the level of min. B2<br>- passing the examination and, if necessary, 2-3 consultations before the examination<br>- passing a foreign language exam                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| <b>Learning outcomes:</b><br>The graduate of the course will acquire the language skills needed to obtain scientific information from foreign sources and present research results in foreign journals and at international conferences. They will learn about the possibilities of studying abroad, health care systems in English-speaking countries, ways of language education, possibilities of using IT in language education, but also about variants of the English language used in global communication.                                                                                 |                                          |
| <b>Class syllabus:</b><br>English language:<br>1. Education and Education Systems<br>2. Language Education<br>3. Intercultural Communication<br>4. Study Abroad<br>5. Health Services<br>6. Differences between British and American English<br>7. Aspects of English Medical Language<br>8. Speaking at Medical Meetings: Presentation of a Paper                                                                                                                                                                                                                                                 |                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| 9. Writing a Scientific Research Article<br>10. Academic Skills in Medical English and Information Technology<br>German language:<br>1. Bildung und Bildungssysteme<br>2. Sprachunterricht<br>3. Interkulturelle Kommunikation<br>4. Im Ausland studieren<br>5. Gesundheitsdienste<br>6. Unterschiede zwischen britischem und amerikanischem Englisch<br>7. Aspekte der englischen Medizinsprache<br>8. Reden bei medizinischen Tagungen: Präsentation eines Themas<br>9. Einen wissenschaftlichen Forschungsartikel schreiben<br>10. Akademische Fähigkeiten in medizinischem Englisch und Informationstechnologien |     |       |
| <b>Recommended literature:</b><br>Barnau, A., Berešová, J., Džuganová, B. (2021) Academic Skills in Medical English. A Guide for Postgraduate Students. Martin: Vydavateľstvo Turany.<br>A monograph or professional textbook from the field that the postgraduate student studies according to the supervisor's recommendation.                                                                                                                                                                                                                                                                                     |     |       |
| <b>Languages necessary to complete the course:</b><br>English language / German language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |       |
| <b>Notes:</b><br>Consultations and exams are provided individually during both semesters. The recommended and reserved time for personal meetings and exams is Friday.                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |       |
| ABS0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | M   | NEABS |
| 0,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0,0 | 0,0   |
| <b>Lecturers:</b> PhDr. Božena Džuganová, PhD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |       |
| <b>Last change:</b> 08.08.2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |       |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Academic year:</b> 2022/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |
| <b>Faculty:</b> Jessenius Faculty of Medicine in Martin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |
| <b>Course ID:</b><br>JLF/3-JMVP-001/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Course title:</b><br>Methodology of Science Research |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning, distance learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Lectures and seminar in the range of 16 teaching hours.<br>Form of teaching: full-time / part-time<br>Recommended range of instruction (in hours): 16 hours<br>Weekly: During the study period:<br>Study method: Presence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Number of credits:</b> 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| <b>Course requirements:</b><br>Active participation in a 2-day course Methodology of Scientific Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| <b>Learning outcomes:</b><br>By completing the course, the doctoral student acquires basic information - theoretical knowledge and practical experience in the field of methodology of scientific work, including current legislation necessary for the organization and successful completion of doctoral studies, grant opportunities, methodology of science and principles of evidence-based medicine, as well as legal and ethical aspects of scientific work in the biomedical sciences, public health and nursing. He also acquires basic knowledge and practical skills in the field of statistical methods and presentation of the results of scientific work.                                                                                                                                                                                                                                                                                                                |                                                         |
| <b>Class syllabus:</b> <ul style="list-style-type: none"> <li>- Current state of doctoral studies in medical and non-medical health sciences in the Slovak Republic</li> <li>- Grant system used to support science in Slovakia and the European Union, general principles of preparation of scientific projects</li> <li>- The "motivation" factor in biomedical research and the life of a young researcher</li> <li>- Ethical aspects of biomedical research</li> <li>- Who's a good doctor? About science and art in medicine</li> <li>- Basics and practical demonstrations of the use of statistical methods used in biomedical sciences, public health, and nursing</li> <li>- Preparations and presentations of the results of scientific work (lecture, publication, written work for the dissertation exam and dissertation)</li> <li>- Legal aspects of scientific work in biomedical sciences, public health and nursing</li> <li>- Types of scientific methods</li> </ul> |                                                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| <ul style="list-style-type: none"> <li>- Evidence Based Medicine, Plagiarism and publishing fraud</li> <li>- Effective use of external resources, citation managers</li> <li>- Bibliometric and citation databases (WoS / SCOPUS / CREPC / EviPUB) and publication literacy</li> </ul>                                                                                                                                                             |     |       |
| <b>Recommended literature:</b><br>Hanáček, J., Javorka, K., Čalkovská, A. a kol.: Základy vedeckovýskumnej práce : príručka pre doktorandov a mladých vedeckých pracovníkov. - 1. vyd. - Martin: Osveta, 2008. - 216 s.<br>Čalkovská, A. Bóriková, I., Danko, J. a kol.: Vedecká príprava : učebnica pre študentov medicíny. - 1. vyd. - Martin : Osveta, 2010. - 220 s. ISBN 978-80-8063-328-8. Vyšlo aj v angl. mutácii - Martin : Osveta, 2011. |     |       |
| <b>Languages necessary to complete the course:</b><br>English                                                                                                                                                                                                                                                                                                                                                                                      |     |       |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                                                                                                                                                                                                                                                                            |     |       |
| ABS0                                                                                                                                                                                                                                                                                                                                                                                                                                               | M   | NEABS |
| 0,0                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |       |
| <b>Last change:</b> 08.08.2023                                                                                                                                                                                                                                                                                                                                                                                                                     |     |       |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |     |       |