

## Course descriptions

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|                                                                                                                                                                         |    |
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## COURSE DESCRIPTION

|                                                                                                                                                                                   |       |     |                                                                                                                                   |     |     |     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                   |       |     |                                                                                                                                   |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                 |       |     |                                                                                                                                   |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                       |       |     |                                                                                                                                   |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-412/22                                                                                                                                           |       |     | <b>Course title:</b><br>Abstract of a contribution from a domestic or an international conference (originally AFG, AFK, AFH, AFL) |     |     |     |       |
| <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 |       |     |                                                                                                                                   |     |     |     |       |
| <b>Number of credits:</b> 4                                                                                                                                                       |       |     |                                                                                                                                   |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                      |       |     |                                                                                                                                   |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                    |       |     |                                                                                                                                   |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                             |       |     |                                                                                                                                   |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                       |       |     |                                                                                                                                   |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                         |       |     |                                                                                                                                   |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                            |       |     |                                                                                                                                   |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                    |       |     |                                                                                                                                   |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                                |       |     |                                                                                                                                   |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                                     |       |     |                                                                                                                                   |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 925                                                                                                         |       |     |                                                                                                                                   |     |     |     |       |
| A                                                                                                                                                                                 | ABS   | B   | C                                                                                                                                 | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                               | 100,0 | 0,0 | 0,0                                                                                                                               | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                 |       |     |                                                                                                                                   |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                               |       |     |                                                                                                                                   |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                             |       |     |                                                                                                                                   |     |     |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| <b>Course ID:</b><br>PriF.KOrCh/N-DCOR-001/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Course title:</b><br>Advanced Organic Chemistry |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of Study: seminars<br>Number of contact hours: per week: 5 h of seminars per level/semester: 65 h<br>Method of study: on site (online or combined if required)                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| <b>Course requirements:</b><br>Evaluation reflects active participation of the PhD student on seminars. Standard evaluation reflects sufficient orientation of the student in the studied topic. To acquire evaluation „passed“ the student have to fulfil more than half of assigned tasks.                                                                                                                                                                                                                                                                                                       |                                                    |
| <b>Learning outcomes:</b><br>The aim of the course is to motivate students to deepen their knowledge of advanced organic chemistry via self-study. This is followed by seminars and discussions which should practice and strengthen the knowledge. In seminars, students solve advanced tasks based on original research from organic chemistry and thus acquire deeper knowledge of organic chemistry and ability to creatively solve problems.                                                                                                                                                  |                                                    |
| <b>Class syllabus:</b><br>Seminars aimed at advanced topic of organic chemistry with focus on synthetic utilization of organic reactions combined with solving of tasks. Topics of seminars: 1) alkylation of enolates; 2) reactions of C-nucleophiles with carbonyl compounds 3) transformations of functional groups; 4) electrophilic additions to C-C multiple bonds; 5) reductions; 6) cycloadditions and rearrangements; 7) organometallic compounds; 8) reactions of carbenium ions, carbenes and radicals; 9) aromatic substitutions; 10) oxidations, reductions and multi-step synthesis. |                                                    |
| <b>Recommended literature:</b><br>F. A. Carey, R. A. Sundberg: Advanced Organic Chemistry, Part B; 5th Ed.; Springer, 2007; Springer.<br>Original and review article from chemistry scholarly journals.                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| <b>Languages necessary to complete the course:</b><br>English language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |

|                                                                                                                    |       |
|--------------------------------------------------------------------------------------------------------------------|-------|
| <b>Notes:</b>                                                                                                      |       |
| <b>Past grade distribution</b>                                                                                     |       |
| Total number of evaluated students: 12                                                                             |       |
| ABS                                                                                                                | NEABS |
| 100,0                                                                                                              | 0,0   |
| <b>Lecturers:</b> doc. RNDr. Andrej Boháč, CSc., prof. Mgr. Radovan Šebesta, DrSc., doc. RNDr. Martin Putala, CSc. |       |
| <b>Last change:</b> 19.09.2022                                                                                     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                              |       |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                               |                                               |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                             |                                               |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                   |                                               |
| <b>Course ID:</b><br>PriF.KOrCh/N-DCOR-008/22                                                                                                                                                                                                                                                                                                                 | <b>Course title:</b><br>Advanced Spectroscopy |
| <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                                                                                                                                                                                |                                               |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of Study: seminars<br>Number of contact hours: per week: 3 h of seminars per level/semester: 39 h<br>Method of study: on site (online or combined if required)                                                                                                      |                                               |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                   |                                               |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                                                                                                                                                               |                                               |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                |                                               |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                         |                                               |
| <b>Course requirements:</b><br>Evaluation reflects active participation of the PhD student on seminars. Standard evaluation reflects sufficient orientation of the student in the studied topic. To acquire evaluation „passed“ the student have to fulfil more than half of assigned tasks.                                                                  |                                               |
| <b>Learning outcomes:</b><br>The aim of this course is to allow PhD students of organic chemistry broaden their knowledge of advanced aspects of spectroscopic methods with emphasis on NMR spectroscopy. The course will allow students to understand and apply advanced spectroscopic techniques as well as be able to measure basic spectra including NMR. |                                               |
| <b>Class syllabus:</b><br>Seminars consisting from discussions and solutions of specific research problems of PhD students from their theses and practical training focused on measurements of NMR spectra and other spectroscopic techniques                                                                                                                 |                                               |
| <b>Recommended literature:</b><br>Original and review articles from chemical scholarly journals, monographies and advanced textbooks                                                                                                                                                                                                                          |                                               |
| <b>Languages necessary to complete the course:</b><br>English language                                                                                                                                                                                                                                                                                        |                                               |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                 |                                               |

|                                                                            |       |
|----------------------------------------------------------------------------|-------|
| <b>Past grade distribution</b>                                             |       |
| Total number of evaluated students: 10                                     |       |
| ABS                                                                        | NEABS |
| 100,0                                                                      | 0,0   |
| <b>Lecturers:</b> prof. Mgr. Radovan Šebesta, DrSc., Mgr. Juraj Filo, PhD. |       |
| <b>Last change:</b> 19.09.2022                                             |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                      |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                                    |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                                    |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                                    |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-505/22                                                                                                                                          |       |     |     | <b>Course title:</b><br>Bachelor's thesis reviewer |     |     |       |
| <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 |       |     |     |                                                    |     |     |       |
| <b>Number of credits:</b> 3                                                                                                                                                      |       |     |     |                                                    |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                                    |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                                    |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                                    |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                                    |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                                    |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                                    |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                                    |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                                    |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                                    |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 410                                                                                                        |       |     |     |                                                    |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                                  | E   | FX  | NEABS |
| 0,24                                                                                                                                                                             | 99,76 | 0,0 | 0,0 | 0,0                                                | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |     |                                                    |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |     |                                                    |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                                    |     |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                                      |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                                      |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                                      |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-504/22                                                                                                                                          |       |     |     | <b>Course title:</b><br>Bachelor's thesis supervisor |     |     |       |
| <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 |       |     |     |                                                      |     |     |       |
| <b>Number of credits:</b> 8                                                                                                                                                      |       |     |     |                                                      |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                                      |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                                      |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                                      |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                                      |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                                      |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                                      |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                                      |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                                      |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                                      |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 123                                                                                                        |       |     |     |                                                      |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                                    | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 100,0 | 0,0 | 0,0 | 0,0                                                  | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |     |                                                      |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |     |                                                      |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                                      |     |     |       |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|---------------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                |       |     |     |                                                                                       |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |       |     |     |                                                                                       |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                    |       |     |     |                                                                                       |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-414/22                                                                                                                                        |       |     |     | <b>Course title:</b><br>Completing an long-term ERASMUS+ internship (minimum 60 days) |     |     |       |
| <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 |       |     |     |                                                                                       |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                                   |       |     |     |                                                                                       |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                   |       |     |     |                                                                                       |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                 |       |     |     |                                                                                       |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                          |       |     |     |                                                                                       |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                    |       |     |     |                                                                                       |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                      |       |     |     |                                                                                       |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                         |       |     |     |                                                                                       |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                 |       |     |     |                                                                                       |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |       |     |     |                                                                                       |     |     |       |
| <b>Notes:</b>                                                                                                                                                                  |       |     |     |                                                                                       |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 41                                                                                                       |       |     |     |                                                                                       |     |     |       |
| A                                                                                                                                                                              | ABS   | B   | C   | D                                                                                     | E   | FX  | NEABS |
| 0,0                                                                                                                                                                            | 97,56 | 0,0 | 0,0 | 0,0                                                                                   | 0,0 | 0,0 | 2,44  |
| <b>Lecturers:</b>                                                                                                                                                              |       |     |     |                                                                                       |     |     |       |
| <b>Last change:</b>                                                                                                                                                            |       |     |     |                                                                                       |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                          |       |     |     |                                                                                       |     |     |       |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|---------------------------------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |     |     |                                                                                                         |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |     |     |                                                                                                         |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |     |     |                                                                                                         |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-415/22                                                                                                                                   |       |     |     | <b>Course title:</b><br>Completion of SAIA/NŠP internship program or other equivalent (minimum 30 days) |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |     |     |                                                                                                         |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                              |       |     |     |                                                                                                         |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |     |     |                                                                                                         |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |     |     |                                                                                                         |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |     |     |                                                                                                         |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |     |     |                                                                                                         |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |     |     |                                                                                                         |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |     |     |                                                                                                         |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |     |     |                                                                                                         |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |     |     |                                                                                                         |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |     |     |                                                                                                         |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 48                                                                                                  |       |     |     |                                                                                                         |     |     |       |
| A                                                                                                                                                                         | ABS   | B   | C   | D                                                                                                       | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0 | 0,0 | 0,0                                                                                                     | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |     |     |                                                                                                         |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |     |     |                                                                                                         |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |     |     |                                                                                                         |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                           |       |     |                                                                                                                                |     |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|--------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |     |                                                                                                                                |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |     |                                                                                                                                |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |     |                                                                                                                                |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-416/22                                                                                                                                   |       |     | <b>Course title:</b><br>Completion of a short-term foreign internship (15-30 days, and related to the topic of the PhD thesis) |     |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |     |                                                                                                                                |     |     |     |       |
| <b>Number of credits:</b> 7                                                                                                                                               |       |     |                                                                                                                                |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |     |                                                                                                                                |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |     |                                                                                                                                |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |     |                                                                                                                                |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |     |                                                                                                                                |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |     |                                                                                                                                |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |     |                                                                                                                                |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |     |                                                                                                                                |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |     |                                                                                                                                |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |     |                                                                                                                                |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 96                                                                                                  |       |     |                                                                                                                                |     |     |     |       |
| A                                                                                                                                                                         | ABS   | B   | C                                                                                                                              | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0 | 0,0                                                                                                                            | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |     |                                                                                                                                |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |     |                                                                                                                                |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |     |                                                                                                                                |     |     |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |
| <b>Course ID:</b><br>PriF.KOrCh/N-DCOR-002/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Course title:</b><br>Compounds Structure and their Relation to Reactivity |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of Study: seminars<br>Number of contact hours: per week: 5 h of seminars per level/semester: 65 h<br>Method of study: on site (online or combined if required)                                                                                                                                                                                                                                                                                                                                           |                                                                              |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                              |
| <b>Course requirements:</b><br>Evaluation reflects active participation of the PhD student on seminars. Standard evaluation reflects sufficient orientation of the student in the studied topic. To acquire evaluation „passed“ the student have to fulfil more than half of assigned tasks.                                                                                                                                                                                                                                                                                                       |                                                                              |
| <b>Learning outcomes:</b><br>The aim of the course is to motivate students to deepen their knowledge of advanced organic chemistry via self-study. This is followed by seminars and discussions which should practice and strengthen the knowledge. In seminars, students solve advanced tasks based on original research from organic chemistry and thus acquire deeper knowledge of organic chemistry and ability to creatively solve problems.                                                                                                                                                  |                                                                              |
| <b>Class syllabus:</b><br>Seminars aimed at advanced topic of organic chemistry with focus on structure and reactivity combined with solving of tasks. Topics of seminars: 1) chemical bonds and molecular structure; 2) stereochemistry, conformations and stereoselectivity; 3) structural influences on stability and reactivity; 4) nucleophilic substitutions; 5) polar additions and eliminations; 6) carbanions and other C-nucleophiles; 7) reactions of carbonyl compounds; 8) aromaticity and aromatic substitutions; 9) pericyclic reactions; 10) radical reactions and photochemistry. |                                                                              |
| <b>Recommended literature:</b><br>F. A. Carey, R. A. Sundberg: Advanced Organic Chemistry, Part A; 5th Ed.; Springer, 2007; Springer.<br>Original and review article from chemistry scholarly journals.                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |
| <b>Languages necessary to complete the course:</b><br>English language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |

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|--------------------------------------------------------------------------------------------------------------------|-------|
| <b>Notes:</b>                                                                                                      |       |
| <b>Past grade distribution</b>                                                                                     |       |
| Total number of evaluated students: 16                                                                             |       |
| ABS                                                                                                                | NEABS |
| 100,0                                                                                                              | 0,0   |
| <b>Lecturers:</b> doc. RNDr. Andrej Boháč, CSc., prof. Mgr. Radovan Šebesta, DrSc., doc. RNDr. Martin Putala, CSc. |       |
| <b>Last change:</b> 19.09.2022                                                                                     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                              |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-001/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course title:</b><br>Dissertation 1 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Learning outcomes:</b><br>Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.                                                                                                                                                                                                                               |                                        |
| <b>Class syllabus:</b><br>Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student.<br>The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies. |                                        |
| <b>Recommended literature:</b><br>Recommended literature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |

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| No specifications regarding the character of a specific topic for the dissertation thesis.<br>Recommended literature is included in the doctoral student's individual study plan.      |       |
| <b>Languages necessary to complete the course:</b><br>Required language for successful course completion:<br>Slovak language in combination with English (study literature in English) |       |
| <b>Notes:</b>                                                                                                                                                                          |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 15                                                                                                               |       |
| ABS                                                                                                                                                                                    | NEABS |
| 100,0                                                                                                                                                                                  | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                      |       |
| <b>Last change:</b> 12.10.2022                                                                                                                                                         |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                  |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-002/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course title:</b><br>Dissertation 2 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Learning outcomes:</b><br>Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.                                                                                                                                                                                                                               |                                        |
| <b>Class syllabus:</b><br>Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student.<br>The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies. |                                        |
| <b>Recommended literature:</b><br>Recommended literature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |

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| No specifications regarding the character of a specific topic for the dissertation thesis.<br>Recommended literature is included in the doctoral student's individual study plan.      |       |
| <b>Languages necessary to complete the course:</b><br>Required language for successful course completion:<br>Slovak language in combination with English (study literature in English) |       |
| <b>Notes:</b>                                                                                                                                                                          |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 12                                                                                                               |       |
| ABS                                                                                                                                                                                    | NEABS |
| 100,0                                                                                                                                                                                  | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                      |       |
| <b>Last change:</b> 13.10.2022                                                                                                                                                         |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                  |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-003/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course title:</b><br>Dissertation 3 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Recommended semester:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Learning outcomes:</b><br>Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.                                                                                                                                                                                                                               |                                        |
| <b>Class syllabus:</b><br>Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student.<br>The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies. |                                        |
| <b>Recommended literature:</b><br>Recommended literature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| No specifications regarding the character of a specific topic for the dissertation thesis.<br>Recommended literature is included in the doctoral student's individual study plan.      |       |
| <b>Languages necessary to complete the course:</b><br>Required language for successful course completion:<br>Slovak language in combination with English (study literature in English) |       |
| <b>Notes:</b>                                                                                                                                                                          |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 15                                                                                                               |       |
| ABS                                                                                                                                                                                    | NEABS |
| 100,0                                                                                                                                                                                  | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                      |       |
| <b>Last change:</b> 18.10.2022                                                                                                                                                         |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                  |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-004/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course title:</b><br>Dissertation 4 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Recommended semester:</b> 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Learning outcomes:</b><br>Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.                                                                                                                                                                                                                               |                                        |
| <b>Class syllabus:</b><br>Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student.<br>The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies. |                                        |
| <b>Recommended literature:</b><br>Recommended literature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| No specifications regarding the character of a specific topic for the dissertation thesis.<br>Recommended literature is included in the doctoral student's individual study plan.      |       |
| <b>Languages necessary to complete the course:</b><br>Required language for successful course completion:<br>Slovak language in combination with English (study literature in English) |       |
| <b>Notes:</b>                                                                                                                                                                          |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 13                                                                                                               |       |
| ABS                                                                                                                                                                                    | NEABS |
| 100,0                                                                                                                                                                                  | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                      |       |
| <b>Last change:</b> 10.10.2022                                                                                                                                                         |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                  |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-005/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Course title:</b><br>Dissertation 5 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| <b>Recommended semester:</b> 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation will be conducted individually based on the doctoral student's individual study plan, as well as on the basis of an agreement between the academic supervisor and doctoral student. Evaluation is standard and shall reflect a sufficient orientation of the student in the presented subject matter for successful course completion according to the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Learning outcomes:</b><br>Educational outcomes: By passing this subject, the student will achieve sufficient orientation in the project issue of the dissertation thesis based on specific individual topics. This set task of knowledge is essential for a firmly established theoretical readiness of the course graduate in terms of his/her awareness, and equally supports his/her potential in a wide field of applied practice. Undoubtedly, the outcomes of his/her education will also be reflected in the student's overview in terms of methodological approaches in the subject matter.                                                                                                                                                                                                                               |                                        |
| <b>Class syllabus:</b><br>Brief outline of the course: The subject Dissertation Thesis is a compulsory part of the doctoral student's study activities. The student requires a supremely individual character with regard to the specifics of the individual topics of the dissertation thesis. The basic syllabus should already be evident within the individual study plan of the doctoral student.<br>The subject is important especially in terms of understanding the basic theoretical and methodological aspects of the solution to the topic of the dissertation thesis with emphasis on self-study and consultation with the academic supervisor and a wide spectrum of consultants, who will take part in creating the professional potential of the doctoral student for the next (scientific) stage of his/her studies. |                                        |
| <b>Recommended literature:</b><br>Recommended literature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |

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| No specifications regarding the character of a specific topic for the dissertation thesis.<br>Recommended literature is included in the doctoral student's individual study plan.      |       |
| <b>Languages necessary to complete the course:</b><br>Required language for successful course completion:<br>Slovak language in combination with English (study literature in English) |       |
| <b>Notes:</b>                                                                                                                                                                          |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 9                                                                                                                |       |
| ABS                                                                                                                                                                                    | NEABS |
| 100,0                                                                                                                                                                                  | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                      |       |
| <b>Last change:</b> 10.10.2022                                                                                                                                                         |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                  |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                           |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-006/22                                                                                                                          | <b>Course title:</b><br>Dissertation 6 |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                        |
| <b>Number of credits:</b> 5                                                                                                                                               |                                        |
| <b>Recommended semester:</b> 6.                                                                                                                                           |                                        |
| <b>Educational level:</b> III.                                                                                                                                            |                                        |
| <b>Prerequisites:</b>                                                                                                                                                     |                                        |
| <b>Course requirements:</b>                                                                                                                                               |                                        |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                        |
| <b>Class syllabus:</b>                                                                                                                                                    |                                        |
| <b>Recommended literature:</b>                                                                                                                                            |                                        |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                        |
| <b>Notes:</b>                                                                                                                                                             |                                        |
| <b>Past grade distribution</b><br>Total number of evaluated students: 9                                                                                                   |                                        |
| ABS                                                                                                                                                                       | NEABS                                  |
| 100,0                                                                                                                                                                     | 0,0                                    |
| <b>Lecturers:</b>                                                                                                                                                         |                                        |
| <b>Last change:</b>                                                                                                                                                       |                                        |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |                                        |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                |                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                        |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                    |                                        |
| <b>Course ID:</b><br>PriF.KOrCh/PriF-DSSZ-007/22                                                                                                                               | <b>Course title:</b><br>Dissertation 7 |
| <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 |                                        |
| <b>Number of credits:</b> 5                                                                                                                                                    |                                        |
| <b>Recommended semester:</b> 7.                                                                                                                                                |                                        |
| <b>Educational level:</b> III.                                                                                                                                                 |                                        |
| <b>Prerequisites:</b>                                                                                                                                                          |                                        |
| <b>Course requirements:</b>                                                                                                                                                    |                                        |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                        |
| <b>Class syllabus:</b>                                                                                                                                                         |                                        |
| <b>Recommended literature:</b>                                                                                                                                                 |                                        |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                        |
| <b>Notes:</b>                                                                                                                                                                  |                                        |
| <b>Past grade distribution</b><br>Total number of evaluated students: 6                                                                                                        |                                        |
| ABS                                                                                                                                                                            | NEABS                                  |
| 100,0                                                                                                                                                                          | 0,0                                    |
| <b>Lecturers:</b>                                                                                                                                                              |                                        |
| <b>Last change:</b>                                                                                                                                                            |                                        |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                          |                                        |

## STATE EXAM DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |
| <b>Course ID:</b><br>PriF.KOrCh/N-DCOR-400/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Course title:</b><br>Dissertation Exam |
| <b>Number of credits:</b> 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation takes place as a part of the State examination in accordance to the Study regulations of the Faculty of Natural Sciences UK in Bratislava, as well as submission of the written part of the dissertation thesis within the set deadline. The subjects of the state examination include a discussion about the written work of the dissertation examination (prepared by the doctoral student), as well as other subjects of the oral examination (ad hoc) approved by the Dean. Assessment is standard and reflects the student's sufficient orientation in the issue. The conditions for successful course completion are in accordance with the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |
| <b>Learning outcomes:</b><br>Educational outcomes: The objective of the course is to gain basic habits and cultural-ethical aspects of working with scientific literature, evaluation, and systemization of the studied knowledge. The doctoral student needs to successfully pass the dissertation examination according to the act on Universities and Study Regulations of the Faculty of Natural Sciences of Comenius University in Bratislava.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |
| <b>Class syllabus:</b><br>Brief outline of the course:<br>Based on the description of the starting points, principles, and conclusions from the published results of the studied issues, the aim is to teach the doctoral student how to process critical research. A further objective is to understand the principles of scientific work and its legal, physical, and social attributes. The main output is the elaboration of the written work for the dissertation examination and its successful completion in accordance with the Study Regulations of the Faculty of Natural Sciences UK. The form and content of the work is regulated by article 34, paragraph 4 of the Study Regulations of the Faculty of Natural Sciences UK. The dissertation examination consists of a part consisting of a discussion of the written work for the dissertation examination, as well as a part in which the doctoral student needs to demonstrate theoretical knowledge according to the focus of the dissertation topic. The composition of the Examination Committee, the determination of the Opponent (expert examiner) and the general course of the dissertation examination are governed by the current Study Regulations of the Faculty of Natural Sciences UK. |                                           |
| <b>State exam syllabus:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |
| <b>Recommended literature:</b><br>Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |

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| Required language for successful course completion:<br>Slovak language in combination with English (study literature in English) |
| <b>Last change:</b> 18.10.2022                                                                                                   |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                            |

## STATE EXAM DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |
| <b>Course ID:</b><br>PriF.KOrCh/N-DSSZ-303/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Course title:</b><br>Dissertation Thesis Defense |
| <b>Number of credits:</b> 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |
| <b>Course requirements:</b><br>Conditions for passing the course:<br>Course evaluation takes place as a part of the State examination in accordance to the Study regulations of the Faculty of Natural Sciences UK in Bratislava upon submission of the written part of the dissertation thesis (as final work). Assessment is standard and reflects the student's sufficient orientation in the issue. The conditions for successful course completion are in accordance with the Study Regulations of the Faculty of Natural Sciences UK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |
| <b>Learning outcomes:</b><br>Educational outcomes: The aim of the course is to capitalise on theoretical, methodological and applied knowledge of doctoral studies in the elaboration and subsequent defence of the dissertation thesis, and thus the successful completion of doctoral studies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |
| <b>Class syllabus:</b><br>Brief outline of the course: The student's dissertation thesis will demonstrate his/her ability and readiness for independent scientific and creative activities in the area of research or development or for independent theoretical and creative artistic creativity. It should be characterised by a high degree of analysis and synthesis of knowledge, as well as a sufficient overview of existing literature. The work must be original and created by the author in compliance with the rules of working with information sources. The academic work must not appear to be plagiarised, nor infringe the copyrights of other authors. The author is required to thoroughly cite the information sources used, list the specific results of other authors or team of authors by citing the source, accurately describe the methods and working procedures of other authors or teams of authors, and document the laboratory results and field research of other authors or teams of authors. Style of citation is governed by the practice in the given scientific field, respecting the relevant norms and standards. |                                                     |
| <b>State exam syllabus:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |
| <b>Recommended literature:</b><br>Recommended literature: No specifications regarding the character of a specific topic for the dissertation thesis. Recommended literature is included in the doctoral student's individual study plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |
| <b>Languages necessary to complete the course:</b><br>Required language for successful course completion:<br>Slovak language in combination with English (study literature in English)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |
| <b>Last change:</b> 24.10.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|-------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                                                   |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                                                   |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                                                   |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-400/22                                                                                                                                          |       |     |     | <b>Course title:</b><br>Grant CU or Grant SAS or equivalent grant |     |     |       |
| <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 |       |     |     |                                                                   |     |     |       |
| <b>Number of credits:</b> 12                                                                                                                                                     |       |     |     |                                                                   |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                                                   |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                                                   |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                                                   |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                                                   |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                                                   |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                                                   |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                                                   |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                                                   |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                                                   |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 248                                                                                                        |       |     |     |                                                                   |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                                                 | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 100,0 | 0,0 | 0,0 | 0,0                                                               | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |     |                                                                   |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |     |                                                                   |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                                                   |     |     |       |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|--------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                |       |     |     |                                                                                |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |       |     |     |                                                                                |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                    |       |     |     |                                                                                |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-413/22                                                                                                                                        |       |     |     | <b>Course title:</b><br>Intellectual Property Rights Document (originally AGJ) |     |     |       |
| <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 |       |     |     |                                                                                |     |     |       |
| <b>Number of credits:</b> 10                                                                                                                                                   |       |     |     |                                                                                |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                   |       |     |     |                                                                                |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                 |       |     |     |                                                                                |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                          |       |     |     |                                                                                |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                    |       |     |     |                                                                                |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                      |       |     |     |                                                                                |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                         |       |     |     |                                                                                |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                 |       |     |     |                                                                                |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |       |     |     |                                                                                |     |     |       |
| <b>Notes:</b>                                                                                                                                                                  |       |     |     |                                                                                |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                        |       |     |     |                                                                                |     |     |       |
| A                                                                                                                                                                              | ABS   | B   | C   | D                                                                              | E   | FX  | NEABS |
| 0,0                                                                                                                                                                            | 100,0 | 0,0 | 0,0 | 0,0                                                                            | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                              |       |     |     |                                                                                |     |     |       |
| <b>Last change:</b>                                                                                                                                                            |       |     |     |                                                                                |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                          |       |     |     |                                                                                |     |     |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
| <b>Course ID:</b><br>PriF.KOrCh/N-DCOR-007/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Course title:</b><br>Organic Reactions Course |
| <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                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of Study: lectures and seminars<br>Number of contact hours: per week: 3 h of lectures and 1 h of seminars per level/semester: 39 h / 13 h<br>Method of study: on site (online or combined if required)                                                                                                                                                                                                                                                           |                                                  |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
| <b>Course requirements:</b><br>Evaluation reflects active participation of the PhD student on seminars. Standard evaluation reflects sufficient orientation of the student in the studied topic. To acquire evaluation „passed“ the student have to fulfil more than half of assigned tasks.                                                                                                                                                                                                                                                               |                                                  |
| <b>Learning outcomes:</b><br>The aim of the course is to show and explain to students principles of mechanisms of main types of organic reactions. Taking this course should allow students to understand all typical organic reactions, what will enable them to creatively solve problems in organic synthesis, material chemistry, organic catalysis, bioorganic and medicinal chemistry                                                                                                                                                                |                                                  |
| <b>Class syllabus:</b><br>1. Electrophilic additions to C-C multiple bonds; 2. aromatic electrophilic substitutions; 3. elimination reactions; 4. nucleophilic substitutions at the saturated carbon; 5. nucleophilic additions to multiple bonds C-heteroatom; 6. nucleophilic substitution at sp <sup>2</sup> carbon; 7. nucleophilic additions to C-C multiple bonds; 8. nucleophilic aromatic substitutions; 9. molecular rearrangements; 10. cycloaddition reactions; 11. radical reactions; 12. electrophilic substitutions at the aliphatic carbon. |                                                  |
| <b>Recommended literature:</b><br>1. R. Brückner, M. Harmata, P. A. Wender, Organic mechanisms: reactions, stereochemistry and synthesis, Springer, 2010; 3. E. V. Anslyn, D. A. Dougherty, Modern physical organic chemistry, University Science, 2006.                                                                                                                                                                                                                                                                                                   |                                                  |
| <b>Languages necessary to complete the course:</b><br>English language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |

|                                                       |       |
|-------------------------------------------------------|-------|
| <b>Past grade distribution</b>                        |       |
| Total number of evaluated students: 0                 |       |
| ABS                                                   | NEABS |
| 0,0                                                   | 0,0   |
| <b>Lecturers:</b> prof. Mgr. Radovan Šebesta, DrSc.   |       |
| <b>Last change:</b> 19.09.2022                        |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc. |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                  |       |     |     |                                          |     |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                          |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                          |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                          |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-508/22                                                                                                                                          |       |     |     | <b>Course title:</b><br>Other activities |     |     |       |
| <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 |       |     |     |                                          |     |     |       |
| <b>Number of credits:</b> 1                                                                                                                                                      |       |     |     |                                          |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                          |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                          |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                          |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                          |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                          |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                          |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                          |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                          |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                          |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 682                                                                                                        |       |     |     |                                          |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                        | E   | FX  | NEABS |
| 0,15                                                                                                                                                                             | 99,85 | 0,0 | 0,0 | 0,0                                      | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |     |                                          |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |     |                                          |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                          |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                  |       |     |     |                                                                                          |     |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|------------------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                                                                          |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                                                                          |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                                                                          |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-501/22                                                                                                                                          |       |     |     | <b>Course title:</b><br>P1 Pedagogical output as a whole (originally ACA, ACB, BCI, BCB) |     |     |       |
| <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 |       |     |     |                                                                                          |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                                     |       |     |     |                                                                                          |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                                                                          |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                                                                          |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                                                                          |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                                                                          |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                                                                          |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                                                                          |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                                                                          |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                                                                          |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                                                                          |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 8                                                                                                          |       |     |     |                                                                                          |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                                                                        | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 100,0 | 0,0 | 0,0 | 0,0                                                                                      | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |     |                                                                                          |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |     |                                                                                          |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                                                                          |     |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|--------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |     |     |     |                                                                          |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |     |     |     |                                                                          |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |     |     |     |                                                                          |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-503/22                                                                                                                                          |     |     |     | <b>Course title:</b><br>P2 Pedagogical output as a part (originally BCK) |     |     |       |
| <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 |     |     |     |                                                                          |     |     |       |
| <b>Number of credits:</b> 10                                                                                                                                                     |     |     |     |                                                                          |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |     |     |     |                                                                          |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |     |     |     |                                                                          |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |     |     |     |                                                                          |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |     |     |     |                                                                          |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |     |     |     |                                                                          |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |     |     |     |                                                                          |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |     |     |     |                                                                          |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |     |     |     |                                                                          |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |     |     |     |                                                                          |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                          |     |     |     |                                                                          |     |     |       |
| A                                                                                                                                                                                | ABS | B   | C   | D                                                                        | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 0,0 | 0,0 | 0,0 | 0,0                                                                      | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |     |     |     |                                                                          |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |     |     |     |                                                                          |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |     |     |     |                                                                          |     |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |     |     |     |                                                                             |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |     |     |     |                                                                             |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |     |     |     |                                                                             |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-502/22                                                                                                                                          |     |     |     | <b>Course title:</b><br>P2 Pedagogical output as part (originally ACC, ACD) |     |     |       |
| <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 |     |     |     |                                                                             |     |     |       |
| <b>Number of credits:</b> 15                                                                                                                                                     |     |     |     |                                                                             |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |     |     |     |                                                                             |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |     |     |     |                                                                             |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |     |     |     |                                                                             |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |     |     |     |                                                                             |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |     |     |     |                                                                             |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |     |     |     |                                                                             |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |     |     |     |                                                                             |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |     |     |     |                                                                             |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |     |     |     |                                                                             |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                          |     |     |     |                                                                             |     |     |       |
| A                                                                                                                                                                                | ABS | B   | C   | D                                                                           | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 0,0 | 0,0 | 0,0 | 0,0                                                                         | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |     |     |     |                                                                             |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |     |     |     |                                                                             |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |     |     |     |                                                                             |     |     |       |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----------------------------------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |     |     |                                                                                                          |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |     |     |                                                                                                          |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |     |     |                                                                                                          |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-507/22                                                                                                                                   |       |     |     | <b>Course title:</b><br>Pedagogical activity (4 hours/WS and 4 hours/SS) or alternative pedagogical work |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |     |     |                                                                                                          |     |     |       |
| <b>Number of credits:</b> 2                                                                                                                                               |       |     |     |                                                                                                          |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |     |     |                                                                                                          |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |     |     |                                                                                                          |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |     |     |                                                                                                          |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |     |     |                                                                                                          |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |     |     |                                                                                                          |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |     |     |                                                                                                          |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |     |     |                                                                                                          |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |     |     |                                                                                                          |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |     |     |                                                                                                          |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 735                                                                                                 |       |     |     |                                                                                                          |     |     |       |
| A                                                                                                                                                                         | ABS   | B   | C   | D                                                                                                        | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0 | 0,0 | 0,0                                                                                                      | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |     |     |                                                                                                          |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |     |     |                                                                                                          |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |     |     |                                                                                                          |     |     |       |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| <b>Course ID:</b><br>PriF.KOrCh/N-DCOR-006/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Course title:</b><br>Physical Organic Chemistry |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Type, volume, methods and workload of the student - additional information</b><br>Form of Study: lectures and seminars<br>Number of contact hours: per week: 3 h of lectures and 1 h of seminars per level/semester: 39 h / 13 h<br>Method of study: on site (online or combined if required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |
| <b>Number of credits:</b> 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |
| <b>Course requirements:</b><br>Evaluation reflects active participation of the PhD student on seminars. Standard evaluation reflects sufficient orientation of the student in the studied topic. To acquire evaluation „passed“ the student have to fulfil more than half of assigned tasks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| <b>Learning outcomes:</b><br>The course creates broad basic for deeper study of mechanisms of reactions. Student will acquire deeper insight into structure of organic compounds and most common intermediates and their influence on properties and reactivity, including their quantification. Furthermore, students will learn methods for studying mechanisms of organic reactions and other factor (catalysis, solvatations etc.) influencing progress of reactions. Students will familiarize themselves with pericyclic and photochemical reactions. Taking this course will allow students to understand effect of structure and other factors on the reactivity of compounds and be able to interpret these factors, including drawing resonance structures with electron movements and energies, geometries and symetry of molecular orbitals. |                                                    |
| <b>Class syllabus:</b><br>1) Chemical bonds; 2) Aromaticity in basic and transition state, antiaromaticity, Möbius aromaticity; 3) Selected aspects of stereochemistry of organic compounds; 4) Kinetic and thermodynamic dispositions for organic reactions; 5) Reaction mechanism: principle of mikroskopic reversibility, Hammond postulate, Curtin-Hammett principle. Methods for study of mechanisms; 6) Acids and bases; 7) Tautomerism; 8) Hydrogen bonds ans other weak interactions; 9) Catalysis of organic reactions; 10) Solvatations; 11) Extrathermodynamic relationships: quantification of electronic and steric influences on the speed and equilibrium of chemical reactions; 12) Reaction intermediates; 13) Pericyclic reactions; 14) Photochemistry                                                                                 |                                                    |
| <b>Recommended literature:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |

1) E. V. Anslyn, D. A. Dougherty: Modern Physical Organic Chemistry, University Science Book, California 2006; 2) I. Fleming: Molecular Orbitals and Organic Chemical Reactions, Student ed., John Wiley & Sons, 2009.

**Languages necessary to complete the course:**

English language

**Notes:**

**Past grade distribution**

Total number of evaluated students: 0

| ABS | NEABS |
|-----|-------|
| 0,0 | 0,0   |

**Lecturers:** prof. Mgr. Radovan Šebesta, DrSc.

**Last change:** 19.09.2022

**Approved by:** prof. Mgr. Radovan Šebesta, DrSc.

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |
| <b>Course ID:</b><br>PriF.KJ/N-DSSZ-026/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Course title:</b><br>Professional English 1 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |
| <b>Course requirements:</b><br>Each course participant is required to achieve proficient knowledge and usage of the English grammar, professional vocabulary, reading and listening comprehension, writing professional texts and oral presentations. Credits will be awarded to students who will demonstrate active participation and deliver all set tasks and assignments successfully. The course participants will be awarded a pass or a fail upon course completion.                                                                                                                          |                                                |
| <b>Learning outcomes:</b><br>Upon completion of the course, PhD students will effectively use the English language for professional purposes. They will proficiently comprehend targeted written and audio texts and present their viewpoints in required forms.                                                                                                                                                                                                                                                                                                                                      |                                                |
| <b>Class syllabus:</b><br>Theoretical and practical skills in professional written communication include appropriate structure of formal written texts (emails, application forms, personal statements, cover letters, abstracts, scientific articles, paraphrasing, using citations, citing sources, etc.) The course also focuses on theoretical explanation of correct delivery of oral texts, professional presentations and discussions. The course primary target is to facilitate PhD students with proficient usage of all the aspects of written and oral communication in various settings. |                                                |
| <b>Recommended literature:</b><br>Armer, T.: Cambridge English for Scientists<br>CD ROM Writing Professional English<br>Team of authors: Test your Listening Skills: A Handbook for Science Doctoral students<br>Team of authors: Test your Reading Skills: A Handbook for Science Doctoral students                                                                                                                                                                                                                                                                                                  |                                                |
| <b>Languages necessary to complete the course:</b><br>English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |

|                                                                    |       |     |     |     |     |     |       |
|--------------------------------------------------------------------|-------|-----|-----|-----|-----|-----|-------|
| <b>Past grade distribution</b>                                     |       |     |     |     |     |     |       |
| Total number of evaluated students: 281                            |       |     |     |     |     |     |       |
| A                                                                  | ABS   | B   | C   | D   | E   | FX  | NEABS |
| 0,0                                                                | 100,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b> Mgr. Aneta Barnes, RNDr. Tatiana Slováková, PhD. |       |     |     |     |     |     |       |
| <b>Last change:</b> 03.10.2022                                     |       |     |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.              |       |     |     |     |     |     |       |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |
| <b>Course ID:</b><br>PriF.KJ/N-DSSZ-027/22                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Course title:</b><br>Professional English 2 |
| <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                                                                                                                                                                                                                                                                                                                    |                                                |
| <b>Number of credits:</b> 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |
| <b>Course requirements:</b><br>Each course participant is required to achieve proficient knowledge and usage of the English grammar, professional vocabulary, reading and listening comprehension, writing professional texts and oral presentations. Credits will be awarded to students who will demonstrate active participation during seminars and deliver all prior set tasks and assignments successfully. The course participants will be awarded a pass or a fail upon course completion |                                                |
| <b>Learning outcomes:</b><br>Doctoral students who successfully pass the examination in Professional English 2 will be enabled to use the English language for specific purposes in all its forms effectively and sufficiently. They will thoroughly comprehend professional texts in written and/or audio form, acquire professional vocabulary and actively participate in various oral communication settings.                                                                                 |                                                |
| <b>Class syllabus:</b><br>Theoretical and practical skills in professional writing communication in the English language as a follow up to prior gained knowledge in the previous semester encompass writing professional résumés, summaries, lay summaries, responses to job interview questions, professional CVs, comparing and contrasting in scientific articles, etc. Professional oral communication focusses on research-based scientific presentations and effectively led discussions.  |                                                |
| <b>Recommended literature:</b><br>Armer, T.: Cambridge English for Scientists<br>CD ROM Writing Professional English<br>Team of authors: Test your Listening Skills: A Handbook for Science Doctoral students<br>Team of authors: Test your Reading Skills: A Handbook for Science Doctoral students                                                                                                                                                                                              |                                                |
| <b>Languages necessary to complete the course:</b><br>English                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
| <b>Notes:</b><br>B1 level in English is required in order to pass this course.<br>Seminars are held in summer semester. Number of students in one course is limited to twenty.                                                                                                                                                                                                                                                                                                                    |                                                |

|                                                       |       |
|-------------------------------------------------------|-------|
| Students can choose from four offered time slots.     |       |
| <b>Past grade distribution</b>                        |       |
| Total number of evaluated students: 138               |       |
| ABS                                                   | NEABS |
| 100,0                                                 | 0,0   |
| <b>Lecturers:</b> Mgr. Aneta Barnes                   |       |
| <b>Last change:</b> 03.10.2022                        |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc. |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                  |       |     |     |                                                                                   |     |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|-----------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                                                                   |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                                                                   |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                                                                   |     |     |       |
| <b>Course ID:</b><br>PriF.KDPP/N-DSSZ-500/22                                                                                                                                     |       |     |     | <b>Course title:</b><br>Selected topics from university pedagogy for non-teachers |     |     |       |
| <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 |       |     |     |                                                                                   |     |     |       |
| <b>Number of credits:</b> 3                                                                                                                                                      |       |     |     |                                                                                   |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                                                                   |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                                                                   |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                                                                   |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                                                                   |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                                                                   |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                                                                   |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                                                                   |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                                                                   |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                                                                   |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 27                                                                                                         |       |     |     |                                                                                   |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                                                                 | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 92,59 | 0,0 | 0,0 | 0,0                                                                               | 0,0 | 0,0 | 7,41  |
| <b>Lecturers:</b> RNDr. Jana Ciceková, PhD., doc. RNDr. PaedDr. Zuzana Haláková, PhD., PhDr.<br>ThLic. Peter Ikhardt, PhD.                                                       |       |     |     |                                                                                   |     |     |       |
| <b>Last change:</b> 30.09.2022                                                                                                                                                   |       |     |     |                                                                                   |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                                                                   |     |     |       |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| <b>Course ID:</b><br>PriF.KJ/N-DSSZ-022/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Course title:</b><br>Slovak for Foreign Doctoral Students 1 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |
| <b>Course requirements:</b><br>The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the level A1, from a complete beginner level.<br>Based on the completion of the course, the participants are able to understand and react to common situations. They are able to speak about themselves, ask for more information they need to know.<br>Scale of assessment (preliminary/final): Credits will not be awarded to students who receive less than 60% on the final examination. |                                                                |
| <b>Learning outcomes:</b><br>The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the level A1, from a complete beginner level.<br>Based on the completion of the course, the participants are able to understand and react to common situations. They are able to speak about themselves, ask for more information they need to know.                                                                                                                                           |                                                                |
| <b>Class syllabus:</b><br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1 (Lekcia: 1-5). UK v Bratislave, 2012.<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, cvičebnica<br>Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a><br>Worksheets, website: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Recommended literature:</b><br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1 (Lekcia: 1-5). UK v Bratislave, 2012.<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, cvičebnica<br>Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a><br>Worksheets, website: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>                                                                                                                                                                                                                                                                                                |                                                                |

|                                                                                                                                               |       |     |     |     |     |     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|-----|-----|-----|-------|
| <b>Languages necessary to complete the course:</b><br>Slovak in combination with English (the study literature is in both Slovak and English) |       |     |     |     |     |     |       |
| <b>Notes:</b><br>It is possible to register for the course just once. Students may begin in either the Summer or Winter semester.             |       |     |     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 68                                                                      |       |     |     |     |     |     |       |
| A                                                                                                                                             | ABS   | B   | C   | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                           | 100,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b> Mgr. Karin Rózsová Wolfová                                                                                                  |       |     |     |     |     |     |       |
| <b>Last change:</b> 28.09.2022                                                                                                                |       |     |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                         |       |     |     |     |     |     |       |

## COURSE DESCRIPTION

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Course ID:</b><br>PriF.KJ/N-DSSZ-023/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Course title:</b><br>Slovak for Foreign Doctoral Students 2 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Course requirements:</b><br>Type, extent and method of academic activities: 2 hours (at 60 min. per hour) of weekly lessons in the form of seminars. All academic activities will take place during the lessons.<br>Number of credits: 3 credits<br>Recommended semester/trimester of study: from 1st to 8th semester<br>Level of study: third<br>Subject conditions: Slovak for Foreign Doctoral Students 1<br>Requirements for course completion: active participation during lessons, ongoing work on the assignments. There will be a final examination at the end of the semester.<br>Scale of assessment (preliminary/final): Credits will not be awarded to students who receive less than 60% on the final examination. |                                                                |
| <b>Learning outcomes:</b><br>Course Objectives: The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the level A1 - intended for beginner or pre-intermediate.                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Class syllabus:</b><br>The lessons contain the basics of Slovak grammar which are relevant to the specifics of Slovak as a foreign language. Selected grammatical phenomena, conjugation and declination are practised. Vocabulary is focused on real-life communication needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                |
| <b>Recommended literature:</b><br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, workbook<br>Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a><br>Worksheets are prepared by the course instructor.<br>Portal: <a href="https://slovae.eu/sk">https://slovae.eu/sk</a>                                                                                                                                                                                                                                                                                                                                                    |                                                                |
| <b>Languages necessary to complete the course:</b><br>Slovak in combination with English (the study literature is in both Slovak and English)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |

**Notes:**

It is possible to register for the course just once. Students may begin in either the Summer or Winter semester.

**Past grade distribution**

Total number of evaluated students: 55

| A   | ABS   | B   | C   | D   | E   | FX  | NEABS |
|-----|-------|-----|-----|-----|-----|-----|-------|
| 0,0 | 100,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |

**Lecturers:** Mgr. Karin Rózsová Wolfová

**Last change:** 18.07.2022

**Approved by:** prof. Mgr. Radovan Šebesta, DrSc.

## COURSE DESCRIPTION

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Course ID:</b><br>PriF.KJ/N-DSSZ-024/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Course title:</b><br>Slovak for Foreign Doctoral Students 3 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Course requirements:</b><br>Type, extent and method of academic activities: 2 hours (at 60 min. per hour) of weekly lessons in the form of seminars. All academic activities will take place during the lessons.<br>Number of credits: 3 credits<br>Recommended semester/trimester of study: from 1st to 8th semester<br>Level of study: third<br>Subject conditions: Slovak for Foreign Doctoral Students 2<br>Requirements for course completion: active participation during lessons, ongoing work on the assignments. There will be a final examination at the end of the semester.<br>Scale of assessment (preliminary/final): Credits will not be awarded to students who receive less than 60% on the final examination. |                                                                |
| <b>Learning outcomes:</b><br>The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the levels A1 – A2. Intended for levels A1-A2, beginner to pre-intermediate                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| <b>Class syllabus:</b><br>The lessons contain the basics of Slovak grammar which are relevant to the specifics of Slovak as a foreign language. Selected grammatical phenomena, conjugation and declination are practised. Vocabulary is focused on real-life communication needs.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                |
| <b>Recommended literature:</b><br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1, A2<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, workbook<br>Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a><br>Worksheets are prepared by the course instructor.<br>Portal: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Languages necessary to complete the course:</b><br>Slovak in combination with English (the study literature is in both Slovak and English)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |

**Notes:**

It is possible to register for the course just once. Students may begin in either the Summer or Winter semester.

**Past grade distribution**

Total number of evaluated students: 43

| A   | ABS   | B   | C   | D   | E   | FX  | NEABS |
|-----|-------|-----|-----|-----|-----|-----|-------|
| 0,0 | 100,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |

**Lecturers:** Mgr. Karin Rózsová Wölfová

**Last change:** 18.07.2022

**Approved by:** prof. Mgr. Radovan Šebesta, DrSc.

## COURSE DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                |
| <b>Course ID:</b><br>PriF.KJ/N-DSSZ-028/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Course title:</b><br>Slovak for Foreign Doctoral Students 4 |
| <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                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                |
| <b>Recommended semester:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |
| <b>Course requirements:</b><br>Grading (Assessment/Evaluation):<br>Active participation during lessons, ongoing work on the assignments. There will be a final examination at the end of the semester. Credits will be awarded to students who receive more than 60% on the final examination. The course participants will be awarded a pass or a fail upon course completion.                                                                                                                                                             |                                                                |
| <b>Learning outcomes:</b><br>Objectives and outcomes:<br>The objective of the course is to acquire the basics of Slovak in a communicative way, to develop individual language skills (listening, reading, writing and speaking) based on the Common European Framework of Reference for Languages (CEFR) for the levels A1 – A2, pre-intermediate level.<br>Based on the completion of the course, the participants are able to understand the common situations and they are able to have a discussion and comment basic daily scenarios. |                                                                |
| <b>Class syllabus:</b><br>Brief outline of the course:<br>The lessons contain the basics of Slovak grammar which are relevant to the specifics of Slovak as a foreign language. Selected grammatical aspects (verb - conjugation/next conjugation classes, possessive pronouns, I like/enjoy doing something, I like something, comparison of adjectives and adverbs, conditional) are practised. Vocabulary is focused on real-life communication needs.                                                                                   |                                                                |
| <b>Recommended literature:</b><br>Recommended literature:<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1. UK v Bratislave, 2012.<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A2. (Lekcia 1-4). UK v Bratislave, 2012.<br>Kamenárová, R. a kol.: Krížom-krážom, Slovenčina A1+A2, cvičebnica<br>Audio program: <a href="https://uniba.sk/krizom-krazom">https://uniba.sk/krizom-krazom</a><br>Worksheets, website: <a href="https://slovake.eu/sk">https://slovake.eu/sk</a>                                                 |                                                                |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |

|                                                                                                     |       |     |     |     |     |     |       |
|-----------------------------------------------------------------------------------------------------|-------|-----|-----|-----|-----|-----|-------|
| Language of instruction:<br>Slovak in combination with English (the study literature is in Slovak). |       |     |     |     |     |     |       |
| <b>Notes:</b>                                                                                       |       |     |     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 18                            |       |     |     |     |     |     |       |
| A                                                                                                   | ABS   | B   | C   | D   | E   | FX  | NEABS |
| 0,0                                                                                                 | 100,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b> Mgr. Karin Rózsová Wolfová                                                        |       |     |     |     |     |     |       |
| <b>Last change:</b> 18.10.2022                                                                      |       |     |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                               |       |     |     |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                  |       |     |     |                                                            |     |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |     |                                                            |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |     |                                                            |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |     |                                                            |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-506/22                                                                                                                                          |       |     |     | <b>Course title:</b><br>Supervisor of the SSC contribution |     |     |       |
| <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 |       |     |     |                                                            |     |     |       |
| <b>Number of credits:</b> 4                                                                                                                                                      |       |     |     |                                                            |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |     |                                                            |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |     |                                                            |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |     |                                                            |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |     |                                                            |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |     |                                                            |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |     |                                                            |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |     |                                                            |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |     |                                                            |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |     |                                                            |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 12                                                                                                         |       |     |     |                                                            |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C   | D                                                          | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 100,0 | 0,0 | 0,0 | 0,0                                                        | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |     |                                                            |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |     |                                                            |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |     |                                                            |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                |     |     |                                                                                                                                     |     |     |     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                |     |     |                                                                                                                                     |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |     |     |                                                                                                                                     |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                    |     |     |                                                                                                                                     |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-404/22                                                                                                                                        |     |     | <b>Course title:</b><br>V1 Scientific output as a whole - ESB monograph (originally AAA, ABA), individual authorship less than 3 AH |     |     |     |       |
| <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 |     |     |                                                                                                                                     |     |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                                   |     |     |                                                                                                                                     |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                   |     |     |                                                                                                                                     |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                 |     |     |                                                                                                                                     |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                          |     |     |                                                                                                                                     |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                    |     |     |                                                                                                                                     |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                      |     |     |                                                                                                                                     |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                         |     |     |                                                                                                                                     |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                 |     |     |                                                                                                                                     |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |     |     |                                                                                                                                     |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                                  |     |     |                                                                                                                                     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |     |     |                                                                                                                                     |     |     |     |       |
| A                                                                                                                                                                              | ABS | B   | C                                                                                                                                   | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                            | 0,0 | 0,0 | 0,0                                                                                                                                 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                              |     |     |                                                                                                                                     |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                            |     |     |                                                                                                                                     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                          |     |     |                                                                                                                                     |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                   |       |     |                                                                                                                                        |     |     |     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|----------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                   |       |     |                                                                                                                                        |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                 |       |     |                                                                                                                                        |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                       |       |     |                                                                                                                                        |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-401/22                                                                                                                                           |       |     | <b>Course title:</b><br>V1 Scientific output as a whole – ESB monograph (originally AAA, ABA), individual authorship share $\geq 3$ AH |     |     |     |       |
| <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 |       |     |                                                                                                                                        |     |     |     |       |
| <b>Number of credits:</b> 30                                                                                                                                                      |       |     |                                                                                                                                        |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                      |       |     |                                                                                                                                        |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                    |       |     |                                                                                                                                        |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                             |       |     |                                                                                                                                        |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                       |       |     |                                                                                                                                        |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                         |       |     |                                                                                                                                        |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                            |       |     |                                                                                                                                        |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                    |       |     |                                                                                                                                        |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                                |       |     |                                                                                                                                        |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                                     |       |     |                                                                                                                                        |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                           |       |     |                                                                                                                                        |     |     |     |       |
| A                                                                                                                                                                                 | ABS   | B   | C                                                                                                                                      | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                               | 100,0 | 0,0 | 0,0                                                                                                                                    | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                 |       |     |                                                                                                                                        |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                               |       |     |                                                                                                                                        |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                             |       |     |                                                                                                                                        |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                  |       |     |                                                                                                                                                          |     |     |     |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                  |       |     |                                                                                                                                                          |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                      |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-405/22                                                                                                                                          |       |     | <b>Course title:</b><br>V2 Scientific output as part - study in ESB or collection<br>(originally AAB, ABA, ABB), individual authorship less than 3<br>AH |     |     |     |       |
| <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 |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                                     |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                     |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                   |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                            |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                      |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                        |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                           |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                   |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                               |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                                    |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 6                                                                                                          |       |     |                                                                                                                                                          |     |     |     |       |
| A                                                                                                                                                                                | ABS   | B   | C                                                                                                                                                        | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                              | 100,0 | 0,0 | 0,0                                                                                                                                                      | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                              |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                            |       |     |                                                                                                                                                          |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                   |       |     |                                                                                                                                                          |     |     |     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                   |       |     |                                                                                                                                                          |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                 |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                       |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-402/22                                                                                                                                           |       |     | <b>Course title:</b><br>V2 Scientific output as part - study in ESB or collection<br>(originally AAB, ABA, ABB), individual authorship share $\geq 3$ AH |     |     |     |       |
| <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 |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Number of credits:</b> 30                                                                                                                                                      |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                      |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                    |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                             |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                       |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                         |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                            |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                    |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                                |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                                     |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                           |       |     |                                                                                                                                                          |     |     |     |       |
| A                                                                                                                                                                                 | ABS   | B   | C                                                                                                                                                        | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                               | 100,0 | 0,0 | 0,0                                                                                                                                                      | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                 |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                               |       |     |                                                                                                                                                          |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                             |       |     |                                                                                                                                                          |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                           |       |                                                                                                                                                                          |     |     |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-411/22                                                                                                                                   |       | <b>Course title:</b><br>V2 Scientific output as part of ESB, collection - contribution in peer reviewed scientific collection, monograph (originally AEC, AFA, AFC, AED) |     |     |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Number of credits:</b> 6                                                                                                                                               |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 493                                                                                                 |       |                                                                                                                                                                          |     |     |     |     |       |
| A                                                                                                                                                                         | ABS   | B                                                                                                                                                                        | C   | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0                                                                                                                                                                      | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |                                                                                                                                                                          |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |                                                                                                                                                                          |     |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                |       |     |     |                                                                                                                                              |     |     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                |       |     |     |                                                                                                                                              |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |       |     |     |                                                                                                                                              |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                    |       |     |     |                                                                                                                                              |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-406/22                                                                                                                                        |       |     |     | <b>Course title:</b><br>V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship less than 3 AH |     |     |       |
| <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 |       |     |     |                                                                                                                                              |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                                   |       |     |     |                                                                                                                                              |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                   |       |     |     |                                                                                                                                              |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                 |       |     |     |                                                                                                                                              |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                          |       |     |     |                                                                                                                                              |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                    |       |     |     |                                                                                                                                              |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                      |       |     |     |                                                                                                                                              |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                         |       |     |     |                                                                                                                                              |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                 |       |     |     |                                                                                                                                              |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |       |     |     |                                                                                                                                              |     |     |       |
| <b>Notes:</b>                                                                                                                                                                  |       |     |     |                                                                                                                                              |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 2                                                                                                        |       |     |     |                                                                                                                                              |     |     |       |
| A                                                                                                                                                                              | ABS   | B   | C   | D                                                                                                                                            | E   | FX  | NEABS |
| 0,0                                                                                                                                                                            | 100,0 | 0,0 | 0,0 | 0,0                                                                                                                                          | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                              |       |     |     |                                                                                                                                              |     |     |       |
| <b>Last change:</b>                                                                                                                                                            |       |     |     |                                                                                                                                              |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                          |       |     |     |                                                                                                                                              |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                           |     |     |                                                                                                                                           |     |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |     |     |                                                                                                                                           |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |     |     |                                                                                                                                           |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |     |     |                                                                                                                                           |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-403/22                                                                                                                                   |     |     | <b>Course title:</b><br>V3 Scientific output as a part - study in a journal (originally AAB, ABA, ABB), individual authorship $\geq 3$ AH |     |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |     |     |                                                                                                                                           |     |     |     |       |
| <b>Number of credits:</b> 30                                                                                                                                              |     |     |                                                                                                                                           |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |     |     |                                                                                                                                           |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |     |     |                                                                                                                                           |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |     |     |                                                                                                                                           |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |     |     |                                                                                                                                           |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |     |     |                                                                                                                                           |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |     |     |                                                                                                                                           |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |     |     |                                                                                                                                           |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |     |     |                                                                                                                                           |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |     |     |                                                                                                                                           |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                   |     |     |                                                                                                                                           |     |     |     |       |
| A                                                                                                                                                                         | ABS | B   | C                                                                                                                                         | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 0,0 | 0,0 | 0,0                                                                                                                                       | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |     |     |                                                                                                                                           |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |     |     |                                                                                                                                           |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |     |     |                                                                                                                                           |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                   |       |     |                                                                                                                |     |     |     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|----------------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                                   |       |     |                                                                                                                |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                 |       |     |                                                                                                                |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                       |       |     |                                                                                                                |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-410/22                                                                                                                                           |       |     | <b>Course title:</b><br>V3 Scientific output in a journal outside the index databases<br>(originally ADE, ADF) |     |     |     |       |
| <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 |       |     |                                                                                                                |     |     |     |       |
| <b>Number of credits:</b> 12                                                                                                                                                      |       |     |                                                                                                                |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                                      |       |     |                                                                                                                |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                    |       |     |                                                                                                                |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                             |       |     |                                                                                                                |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                                       |       |     |                                                                                                                |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                         |       |     |                                                                                                                |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                            |       |     |                                                                                                                |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                                    |       |     |                                                                                                                |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                                |       |     |                                                                                                                |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                                     |       |     |                                                                                                                |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 72                                                                                                          |       |     |                                                                                                                |     |     |     |       |
| A                                                                                                                                                                                 | ABS   | B   | C                                                                                                              | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                               | 100,0 | 0,0 | 0,0                                                                                                            | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                                 |       |     |                                                                                                                |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                               |       |     |                                                                                                                |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                             |       |     |                                                                                                                |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                           |       |                                                                                                                                                                       |     |     |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-407/22                                                                                                                                   |       | <b>Course title:</b><br>V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/Q1 – Q2 (originally ADC, ADD, ADM, ADN), first or corresponding author |     |     |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Number of credits:</b> 50                                                                                                                                              |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 196                                                                                                 |       |                                                                                                                                                                       |     |     |     |     |       |
| A                                                                                                                                                                         | ABS   | B                                                                                                                                                                     | C   | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0                                                                                                                                                                   | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |                                                                                                                                                                       |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |                                                                                                                                                                       |     |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                           |       |                                                                                                                                                                      |     |     |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-408/22                                                                                                                                   |       | <b>Course title:</b><br>V3 Scientific output in a journal registered by CCC, WOS, SCOPUS - JCR/Q3- Q4 (originally ADC, ADD, ADM, ADN), first or corresponding author |     |     |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Number of credits:</b> 40                                                                                                                                              |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 99                                                                                                  |       |                                                                                                                                                                      |     |     |     |     |       |
| A                                                                                                                                                                         | ABS   | B                                                                                                                                                                    | C   | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0                                                                                                                                                                  | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |                                                                                                                                                                      |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |                                                                                                                                                                      |     |     |     |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                           |       |                                                                                                                                                               |     |     |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|
| <b>Academic year:</b> 2024/2025                                                                                                                                           |       |                                                                                                                                                               |     |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                               |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Course ID:</b><br>PriF/N-DSSZ-409/22                                                                                                                                   |       | <b>Course title:</b><br>V3 Scientific output in the journal registered by CCC, WOS, SCOPUS - JCR/Q1 – Q2 – Q3 - Q4 (originally ADC, ADD, ADM, ADN), co-author |     |     |     |     |       |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Number of credits:</b> 20                                                                                                                                              |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Recommended semester:</b>                                                                                                                                              |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                            |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Prerequisites:</b>                                                                                                                                                     |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Course requirements:</b>                                                                                                                                               |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                 |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Class syllabus:</b>                                                                                                                                                    |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Recommended literature:</b>                                                                                                                                            |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Notes:</b>                                                                                                                                                             |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 341                                                                                                 |       |                                                                                                                                                               |     |     |     |     |       |
| A                                                                                                                                                                         | ABS   | B                                                                                                                                                             | C   | D   | E   | FX  | NEABS |
| 0,0                                                                                                                                                                       | 100,0 | 0,0                                                                                                                                                           | 0,0 | 0,0 | 0,0 | 0,0 | 0,0   |
| <b>Lecturers:</b>                                                                                                                                                         |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Last change:</b>                                                                                                                                                       |       |                                                                                                                                                               |     |     |     |     |       |
| <b>Approved by:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                     |       |                                                                                                                                                               |     |     |     |     |       |