

## Course descriptions

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## COURSE DESCRIPTION

|                                                                                                                                                                                                       |      |                                                                   |     |     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |      |                                                                   |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |      |                                                                   |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-102/15                                                                                                                                                         |      | <b>Course title:</b><br>Advanced Physical Chemistry Laboratory(1) |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 6 <b>per level/semester:</b> 84<br><b>Form of the course:</b> on-site learning |      |                                                                   |     |     |     |
| <b>Number of credits:</b> 7                                                                                                                                                                           |      |                                                                   |     |     |     |
| <b>Recommended semester:</b> 1.                                                                                                                                                                       |      |                                                                   |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |      |                                                                   |     |     |     |
| <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: 10                                                                                                                              |      |                                                                   |     |     |     |
| A                                                                                                                                                                                                     | B    | C                                                                 | D   | E   | FX  |
| 60,0                                                                                                                                                                                                  | 30,0 | 10,0                                                              | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Juraj Bujdák, DrSc., doc. Ing. Marián Janek, PhD.                                                                                                                       |      |                                                                   |     |     |     |
| <b>Last change:</b> 10.12.2019                                                                                                                                                                        |      |                                                                   |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |      |                                                                   |     |     |     |

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------|-------|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |       |                                                                   |       |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |       |                                                                   |       |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-103/15                                                                                                                                                         |       | <b>Course title:</b><br>Advanced Physical Chemistry Laboratory(2) |       |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 6 <b>per level/semester:</b> 84<br><b>Form of the course:</b> on-site learning |       |                                                                   |       |     |     |
| <b>Number of credits:</b> 7                                                                                                                                                                           |       |                                                                   |       |     |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                       |       |                                                                   |       |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |       |                                                                   |       |     |     |
| <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: 14                                                                                                                              |       |                                                                   |       |     |     |
| A                                                                                                                                                                                                     | B     | C                                                                 | D     | E   | FX  |
| 64,29                                                                                                                                                                                                 | 14,29 | 7,14                                                              | 14,29 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Monika Jerigová, PhD., doc. Ing. Dušan Velič, DrSc.                                                                                                                           |       |                                                                   |       |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                        |       |                                                                   |       |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |       |                                                                   |       |     |     |

## COURSE DESCRIPTION

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |     |                                                                    |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |     |                                                                    |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-119/15                                                                                                                                                                         |     | <b>Course title:</b><br>Advanced Programming and Numerical Recipes |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 2 <b>per level/semester:</b> 28 / 28<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> II.                                                                                                                                                                                         |     |                                                                    |     |     |     |
| <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: 15                                                                                                                                              |     |                                                                    |     |     |     |
| A                                                                                                                                                                                                                     | B   | C                                                                  | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                 | 0,0 | 0,0                                                                | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD.                                                                                                                                     |     |                                                                    |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |     |                                                                    |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |     |                                                                    |     |     |     |

## STATE EXAM DESCRIPTION

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|------------------------------------------------------|----------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                              |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                              |
| <b>Course ID:</b><br>PriF.KAlCh/N-CHFZ-956/15        | <b>Course title:</b><br>Analytical chemistry |
| <b>Number of credits:</b> 1                          |                                              |
| <b>Educational level:</b> II.                        |                                              |
| <b>State exam syllabus:</b>                          |                                              |
| <b>Last change:</b>                                  |                                              |
| <b>Approved by:</b>                                  |                                              |

## COURSE DESCRIPTION

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |       |                                               |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |       |                                               |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-110/15                                                                                                                                                                         |       | <b>Course title:</b><br>Biophysical Chemistry |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 2 <b>per level/semester:</b> 28 / 28<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> II.                                                                                                                                                                                         |       |                                               |     |     |     |
| <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: 13                                                                                                                                              |       |                                               |     |     |     |
| A                                                                                                                                                                                                                     | B     | C                                             | D   | E   | FX  |
| 46,15                                                                                                                                                                                                                 | 23,08 | 30,77                                         | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. RNDr. Ivan Valent, CSc.                                                                                                                                                                        |       |                                               |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |       |                                               |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |       |                                               |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                                           |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                                           |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-074/20                                                                                                                                                         |     | <b>Course title:</b><br>CLIL 1 – Content and language integrated learning |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                                                           |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                        |     |                                                                           |     |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |     |                                                                           |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                                           |     |     |     |
| <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                                                                                                                                                                                                  | B   | C                                                                         | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                                                       | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Barbara Kordíková                                                                                                                                                           |     |                                                                           |     |     |     |
| <b>Last change:</b>                                                                                                                                                                                |     |                                                                           |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                                           |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                                           |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                                           |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-075/20                                                                                                                                                         |     | <b>Course title:</b><br>CLIL 2 – Content and language integrated learning |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                                                           |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                        |     |                                                                           |     |     |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                |     |                                                                           |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                                           |     |     |     |
| <b>Prerequisites:</b> PriF.KJ/N-mXCJ-074/20 - CLIL 1 – Content and language integrated learning                                                                                                    |     |                                                                           |     |     |     |
| <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: 4                                                                                                                            |     |                                                                           |     |     |     |
| A                                                                                                                                                                                                  | B   | C                                                                         | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                                                       | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Barbara Kordíková                                                                                                                                                           |     |                                                                           |     |     |     |
| <b>Last change:</b>                                                                                                                                                                                |     |                                                                           |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                                           |     |     |     |

## STATE EXAM DESCRIPTION

|                                                      |                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                                                   |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                                                   |
| <b>Course ID:</b><br>PriF.KBCh/N-CHFZ-959/20         | <b>Course title:</b><br>Chemické modelovanie/Počítačové simulácie |
| <b>Number of credits:</b> 1                          |                                                                   |
| <b>Educational level:</b> II.                        |                                                                   |
| <b>State exam syllabus:</b>                          |                                                                   |
| <b>Last change:</b>                                  |                                                                   |
| <b>Approved by:</b>                                  |                                                                   |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                     |      |                                                                                          |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                              |      |                                                                                          |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-111/15                                                                                                                                                                            |      | <b>Course title:</b><br>Computer Modelling (1), Molecular Characteristics and Reactivity |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals / lecture<br><b>Number of hours:</b><br><b>per week:</b> 4 / 2 <b>per level/semester:</b> 56 / 28<br><b>Form of the course:</b> on-site learning |      |                                                                                          |     |     |     |
| <b>Number of credits:</b> 7                                                                                                                                                                                              |      |                                                                                          |     |     |     |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                          |      |                                                                                          |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                            |      |                                                                                          |     |     |     |
| <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: 20                                                                                                                                                 |      |                                                                                          |     |     |     |
| A                                                                                                                                                                                                                        | B    | C                                                                                        | D   | E   | FX  |
| 75,0                                                                                                                                                                                                                     | 25,0 | 0,0                                                                                      | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Ivan Černušák, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., doc. Mgr. Pavel Neogrády, DrSc.                                                                     |      |                                                                                          |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                           |      |                                                                                          |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                      |      |                                                                                          |     |     |     |

## COURSE DESCRIPTION

|                                                                                                                                                                                                                          |     |                                                                                                      |      |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------|------|------|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                     |     |                                                                                                      |      |      |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                              |     |                                                                                                      |      |      |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-112/15                                                                                                                                                                            |     | <b>Course title:</b><br>Computer Modelling (2), Molecular Systems, Biomolecules, Reactivity, Liquids |      |      |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals / lecture<br><b>Number of hours:</b><br><b>per week:</b> 4 / 2 <b>per level/semester:</b> 56 / 28<br><b>Form of the course:</b> on-site learning |     |                                                                                                      |      |      |     |
| <b>Number of credits:</b> 6                                                                                                                                                                                              |     |                                                                                                      |      |      |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                          |     |                                                                                                      |      |      |     |
| <b>Educational level:</b> II.                                                                                                                                                                                            |     |                                                                                                      |      |      |     |
| <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: 17                                                                                                                                                 |     |                                                                                                      |      |      |     |
| A                                                                                                                                                                                                                        | B   | C                                                                                                    | D    | E    | FX  |
| 64,71                                                                                                                                                                                                                    | 0,0 | 23,53                                                                                                | 5,88 | 5,88 | 0,0 |
| <b>Lecturers:</b> doc. Ing. Tomáš Bučko, PhD.                                                                                                                                                                            |     |                                                                                                      |      |      |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                           |     |                                                                                                      |      |      |     |
| <b>Approved by:</b>                                                                                                                                                                                                      |     |                                                                                                      |      |      |     |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                                                  |     |                                         |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                           |     |                                         |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-128/15                                                                                                                                                                                                                                         |     | <b>Course title:</b><br>Diploma seminar |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 1 <b>per level/semester:</b> 14<br><b>Form of the course:</b> on-site learning                                                                                    |     |                                         |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                                                                                                           |     |                                         |     |     |     |
| <b>Recommended semester:</b> 4.                                                                                                                                                                                                                                                       |     |                                         |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                                                         |     |                                         |     |     |     |
| <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: 13                                                                                                                                                                                                              |     |                                         |     |     |     |
| A                                                                                                                                                                                                                                                                                     | B   | C                                       | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                                                 | 0,0 | 0,0                                     | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Juraj Bujdák, DrSc., doc. Ing. Marián Janek, PhD., RNDr. Erik Szabó, PhD., doc. RNDr. Ivan Valent, CSc., doc. Ing. Dušan Velič, DrSc., RNDr. Monika Jerigová, PhD., RNDr. Dušan Lorenc, PhD., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD. |     |                                         |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                                                        |     |                                         |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                   |     |                                         |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                         |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                         |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N_mCFZ-129/15                                                                                                                                                      |     | <b>Course title:</b><br>Diploma seminar |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                         |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                        |     |                                         |     |     |     |
| <b>Recommended semester:</b> 4.                                                                                                                                                                    |     |                                         |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                         |     |     |     |
| <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: 13                                                                                                                           |     |                                         |     |     |     |
| A                                                                                                                                                                                                  | B   | C                                       | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                     | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Ivan Černušák, DrSc.                                                                                                                                                 |     |                                         |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |     |                                         |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                         |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                                                  |      |                                        |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                           |      |                                        |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-130/15                                                                                                                                                                                                                                         |      | <b>Course title:</b><br>Diploma thesis |     |     |     |
| <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> 4.                                                                                                                                                                                                                                                       |      |                                        |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                                                         |      |                                        |     |     |     |
| <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: 13                                                                                                                                                                                                              |      |                                        |     |     |     |
| A                                                                                                                                                                                                                                                                                     | B    | C                                      | D   | E   | FX  |
| 92,31                                                                                                                                                                                                                                                                                 | 7,69 | 0,0                                    | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. RNDr. Ivan Valent, CSc., doc. Ing. Dušan Velič, DrSc., prof. RNDr. Juraj Bujdák, DrSc., doc. Ing. Marián Janek, PhD., RNDr. Monika Jerigová, PhD., RNDr. Erik Szabó, PhD., RNDr. Dušan Lorenc, PhD., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD. |      |                                        |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                                                        |      |                                        |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                   |      |                                        |     |     |     |

## COURSE DESCRIPTION

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |      |                                                             |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |      |                                                             |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-105/15                                                                                                                                                                         |      | <b>Course title:</b><br>Electron and molecular spectroscopy |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 1 <b>per level/semester:</b> 28 / 14<br><b>Form of the course:</b> on-site learning |      |                                                             |     |     |     |
| <b>Number of credits:</b> 4                                                                                                                                                                                           |      |                                                             |     |     |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                                   |      |                                                             |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                         |      |                                                             |     |     |     |
| <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: 16                                                                                                                                              |      |                                                             |     |     |     |
| A                                                                                                                                                                                                                     | B    | C                                                           | D   | E   | FX  |
| 87,5                                                                                                                                                                                                                  | 12,5 | 0,0                                                         | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. Mgr. Pavel Neogrady, DrSc.                                                                                                                                                                     |      |                                                             |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |      |                                                             |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |      |                                                             |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                                                  |      |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                                                  |      |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-062/10                                                                                                                                                         |       | <b>Course title:</b><br>English Preparatory Course for UNICert 1 |      |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                                  |      |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |       |                                                                  |      |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |       |                                                                  |      |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                                                  |      |     |     |
| <b>Prerequisites:</b> PriF.KJ/N-bXCJ-118/18 - English language 3 - preparation course for UNICert,PriF.KJ/N-bXCJ-119/18 - English language 4 - preparation course for UNICert                      |       |                                                                  |      |     |     |
| <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: 258                                                                                                                          |       |                                                                  |      |     |     |
| A                                                                                                                                                                                                  | B     | C                                                                | D    | E   | FX  |
| 66,67                                                                                                                                                                                              | 26,36 | 6,2                                                              | 0,78 | 0,0 | 0,0 |
| <b>Lecturers:</b> PhDr. Jarmila Cihová, PhD., PhDr. Štefánia Dugovičová, PhD., RNDr. Tatiana Slováková, PhD., Mgr. Barbara Kordíková                                                               |       |                                                                  |      |     |     |
| <b>Last change:</b> 10.01.2020                                                                                                                                                                     |       |                                                                  |      |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                                                  |      |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                                                  |      |      |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                                                  |      |      |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-063/10                                                                                                                                                         |       | <b>Course title:</b><br>English Preparatory Course for UNICert 2 |      |      |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                                  |      |      |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |       |                                                                  |      |      |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                |       |                                                                  |      |      |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                                                  |      |      |     |
| <b>Prerequisites:</b> PriF.KJ/N-mXCJ-062/10 - English Preparatory Course for UNICert 1                                                                                                             |       |                                                                  |      |      |     |
| <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: 243                                                                                                                          |       |                                                                  |      |      |     |
| A                                                                                                                                                                                                  | B     | C                                                                | D    | E    | FX  |
| 81,48                                                                                                                                                                                              | 13,17 | 4,12                                                             | 0,82 | 0,41 | 0,0 |
| <b>Lecturers:</b> PhDr. Jarmila Cihová, PhD., PhDr. Štefánia Dugovičová, PhD., RNDr. Tatiana Slováková, PhD., Mgr. Barbara Kordíková                                                               |       |                                                                  |      |      |     |
| <b>Last change:</b> 10.01.2020                                                                                                                                                                     |       |                                                                  |      |      |     |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                                                  |      |      |     |

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------|------|-----|------|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |       |                                   |      |     |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |       |                                   |      |     |      |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-060/10                                                                                                                                                            |       | <b>Course title:</b><br>English 1 |      |     |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                   |      |     |      |
| <b>Number of credits:</b> 2                                                                                                                                                                           |       |                                   |      |     |      |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                   |       |                                   |      |     |      |
| <b>Educational level:</b> II.                                                                                                                                                                         |       |                                   |      |     |      |
| <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: 331                                                                                                                             |       |                                   |      |     |      |
| A                                                                                                                                                                                                     | B     | C                                 | D    | E   | FX   |
| 72,21                                                                                                                                                                                                 | 15,71 | 7,55                              | 1,21 | 0,0 | 3,32 |
| <b>Lecturers:</b> PhDr. Jarmila Cihová, PhD., PhDr. Štefánia Dugovičová, PhD., RNDr. Tatiana Slováková, PhD., Mgr. Barbara Kordíková, PhDr. Oľga Pažitková, CSc.                                      |       |                                   |      |     |      |
| <b>Last change:</b> 08.01.2020                                                                                                                                                                        |       |                                   |      |     |      |
| <b>Approved by:</b>                                                                                                                                                                                   |       |                                   |      |     |      |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |       |                                   |      |     |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |       |                                   |      |     |      |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-061/10                                                                                                                                                            |       | <b>Course title:</b><br>English 2 |      |     |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                   |      |     |      |
| <b>Number of credits:</b> 2                                                                                                                                                                           |       |                                   |      |     |      |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                   |       |                                   |      |     |      |
| <b>Educational level:</b> II.                                                                                                                                                                         |       |                                   |      |     |      |
| <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: 281                                                                                                                             |       |                                   |      |     |      |
| A                                                                                                                                                                                                     | B     | C                                 | D    | E   | FX   |
| 75,8                                                                                                                                                                                                  | 18,86 | 3,2                               | 1,07 | 0,0 | 1,07 |
| <b>Lecturers:</b> PhDr. Jarmila Cihová, PhD., PhDr. Štefánia Dugovičová, PhD., RNDr. Tatiana Slováková, PhD., Mgr. Barbara Kordíková, PhDr. Oľga Pažitková, CSc.                                      |       |                                   |      |     |      |
| <b>Last change:</b> 08.01.2020                                                                                                                                                                        |       |                                   |      |     |      |
| <b>Approved by:</b>                                                                                                                                                                                   |       |                                   |      |     |      |

## COURSE DESCRIPTION

|                                                                                                                                                                                                       |       |                                                                             |     |     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |       |                                                                             |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |       |                                                                             |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-070/18                                                                                                                                                            |       | <b>Course title:</b><br>English language 1 - preparation course for UNIcert |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                                             |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                           |       |                                                                             |     |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                   |       |                                                                             |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |       |                                                                             |     |     |     |
| <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: 32                                                                                                                              |       |                                                                             |     |     |     |
| A                                                                                                                                                                                                     | B     | C                                                                           | D   | E   | FX  |
| 65,63                                                                                                                                                                                                 | 31,25 | 3,13                                                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Michael Jerry Sabo, Mgr. Barbara Kordíková, PhDr. Jarmila Cihová, PhD., PhDr. Štefánia Dugovičová, PhD., RNDr. Tatiana Slováková, PhD.                                              |       |                                                                             |     |     |     |
| <b>Last change:</b> 10.01.2020                                                                                                                                                                        |       |                                                                             |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |       |                                                                             |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |      |                                                                             |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |      |                                                                             |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-071/18                                                                                                                                                            |      | <b>Course title:</b><br>English language 2 - preparation course for UNICert |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                                                             |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                           |      |                                                                             |     |     |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                   |      |                                                                             |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |      |                                                                             |     |     |     |
| <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: 36                                                                                                                              |      |                                                                             |     |     |     |
| A                                                                                                                                                                                                     | B    | C                                                                           | D   | E   | FX  |
| 88,89                                                                                                                                                                                                 | 8,33 | 2,78                                                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Michael Jerry Sabo, Mgr. Barbara Kordíková, PhDr. Jarmila Cihová, PhD., PhDr. Štefánia Dugovičová, PhD., RNDr. Tatiana Slováková, PhD.                                              |      |                                                                             |     |     |     |
| <b>Last change:</b> 10.01.2020                                                                                                                                                                        |      |                                                                             |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |      |                                                                             |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |       |                                                                    |     |      |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |       |                                                                    |     |      |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-106/15                                                                                                                                                                         |       | <b>Course title:</b><br>Experimental methods in Physical Chemistry |     |      |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 4 / 1 <b>per level/semester:</b> 56 / 14<br><b>Form of the course:</b> on-site learning |       |                                                                    |     |      |     |
| <b>Number of credits:</b> 7                                                                                                                                                                                           |       |                                                                    |     |      |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                       |       |                                                                    |     |      |     |
| <b>Educational level:</b> II.                                                                                                                                                                                         |       |                                                                    |     |      |     |
| <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: 15                                                                                                                                              |       |                                                                    |     |      |     |
| A                                                                                                                                                                                                                     | B     | C                                                                  | D   | E    | FX  |
| 53,33                                                                                                                                                                                                                 | 33,33 | 6,67                                                               | 0,0 | 6,67 | 0,0 |
| <b>Lecturers:</b> RNDr. Erik Szabó, PhD., RNDr. Monika Jerigová, PhD.                                                                                                                                                 |       |                                                                    |     |      |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |       |                                                                    |     |      |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |       |                                                                    |     |      |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                                                 |      |     |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                                                 |      |     |      |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-068/10                                                                                                                                                         |       | <b>Course title:</b><br>German Preparatory Course for UNICert 1 |      |     |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                                 |      |     |      |
| <b>Number of credits:</b> 3                                                                                                                                                                        |       |                                                                 |      |     |      |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |       |                                                                 |      |     |      |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                                                 |      |     |      |
| <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: 30                                                                                                                           |       |                                                                 |      |     |      |
| A                                                                                                                                                                                                  | B     | C                                                               | D    | E   | FX   |
| 46,67                                                                                                                                                                                              | 33,33 | 13,33                                                           | 3,33 | 0,0 | 3,33 |
| <b>Lecturers:</b> Mgr. Stella Rizmanová, Mgr. Karin Rózsová Wolfová                                                                                                                                |       |                                                                 |      |     |      |
| <b>Last change:</b> 15.01.2020                                                                                                                                                                     |       |                                                                 |      |     |      |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                                                 |      |     |      |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |      |                                                                 |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |      |                                                                 |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-069/10                                                                                                                                                         |      | <b>Course title:</b><br>German Preparatory Course for UNICert 2 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                                                 |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |      |                                                                 |     |     |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                |      |                                                                 |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |      |                                                                 |     |     |     |
| <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: 20                                                                                                                           |      |                                                                 |     |     |     |
| A                                                                                                                                                                                                  | B    | C                                                               | D   | E   | FX  |
| 70,0                                                                                                                                                                                               | 25,0 | 5,0                                                             | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Stella Rizmanová, Mgr. Karin Rózsová Wolfová                                                                                                                                |      |                                                                 |     |     |     |
| <b>Last change:</b> 14.01.2020                                                                                                                                                                     |      |                                                                 |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |      |                                                                 |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |      |                                  |      |     |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |      |                                  |      |     |      |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-064/10                                                                                                                                                         |      | <b>Course title:</b><br>German 1 |      |     |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                  |      |     |      |
| <b>Number of credits:</b> 2                                                                                                                                                                        |      |                                  |      |     |      |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |      |                                  |      |     |      |
| <b>Educational level:</b> II.                                                                                                                                                                      |      |                                  |      |     |      |
| <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: 67                                                                                                                           |      |                                  |      |     |      |
| A                                                                                                                                                                                                  | B    | C                                | D    | E   | FX   |
| 86,57                                                                                                                                                                                              | 2,99 | 1,49                             | 2,99 | 0,0 | 5,97 |
| <b>Lecturers:</b> Mgr. Stella Rizmanová, Mgr. Karin Rózsová Wolfová                                                                                                                                |      |                                  |      |     |      |
| <b>Last change:</b> 16.01.2020                                                                                                                                                                     |      |                                  |      |     |      |
| <b>Approved by:</b>                                                                                                                                                                                |      |                                  |      |     |      |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |      |                                  |      |     |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |      |                                  |      |     |      |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-065/10                                                                                                                                                         |      | <b>Course title:</b><br>German 2 |      |     |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                  |      |     |      |
| <b>Number of credits:</b> 2                                                                                                                                                                        |      |                                  |      |     |      |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                |      |                                  |      |     |      |
| <b>Educational level:</b> II.                                                                                                                                                                      |      |                                  |      |     |      |
| <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: 57                                                                                                                           |      |                                  |      |     |      |
| A                                                                                                                                                                                                  | B    | C                                | D    | E   | FX   |
| 87,72                                                                                                                                                                                              | 7,02 | 1,75                             | 1,75 | 0,0 | 1,75 |
| <b>Lecturers:</b> Mgr. Stella Rizmanová, Mgr. Karin Rózsová Wolfová                                                                                                                                |      |                                  |      |     |      |
| <b>Last change:</b> 21.01.2020                                                                                                                                                                     |      |                                  |      |     |      |
| <b>Approved by:</b>                                                                                                                                                                                |      |                                  |      |     |      |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |      |                                                                        |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |      |                                                                        |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-072/18                                                                                                                                                            |      | <b>Course title:</b><br>German language 1 – UNicert preparatory course |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                                                        |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                           |      |                                                                        |     |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                   |      |                                                                        |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |      |                                                                        |     |     |     |
| <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: 4                                                                                                                               |      |                                                                        |     |     |     |
| A                                                                                                                                                                                                     | B    | C                                                                      | D   | E   | FX  |
| 25,0                                                                                                                                                                                                  | 75,0 | 0,0                                                                    | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Stella Rizmanová, Mgr. Karin Rózsová Wolfová                                                                                                                                   |      |                                                                        |     |     |     |
| <b>Last change:</b> 15.01.2020                                                                                                                                                                        |      |                                                                        |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |      |                                                                        |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |      |                                                                        |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |      |                                                                        |     |     |     |
| <b>Course ID:</b><br>PriF.KJ/N-mXCJ-073/18                                                                                                                                                            |      | <b>Course title:</b><br>German language 2 – UNicert preparatory course |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                                                        |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                           |      |                                                                        |     |     |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                   |      |                                                                        |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |      |                                                                        |     |     |     |
| <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: 4                                                                                                                               |      |                                                                        |     |     |     |
| A                                                                                                                                                                                                     | B    | C                                                                      | D   | E   | FX  |
| 50,0                                                                                                                                                                                                  | 50,0 | 0,0                                                                    | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Stella Rizmanová, Mgr. Karin Rózsová Wolfová                                                                                                                                   |      |                                                                        |     |     |     |
| <b>Last change:</b> 15.01.2020                                                                                                                                                                        |      |                                                                        |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |      |                                                                        |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                     |     |                                            |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                              |     |                                            |     |     |     |
| <b>Course ID:</b><br>PriF.KEM/N-mXXX-003/19                                                                                                                                                                              |     | <b>Course title:</b><br>Green University 1 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 2 <b>per level/semester:</b> 28 / 28<br><b>Form of the course:</b> on-site learning |     |                                            |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                                              |     |                                            |     |     |     |
| <b>Recommended semester:</b> 1., 2., 3., 4..                                                                                                                                                                             |     |                                            |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                            |     |                                            |     |     |     |
| <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: 33                                                                                                                                                 |     |                                            |     |     |     |
| A                                                                                                                                                                                                                        | B   | C                                          | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                    | 0,0 | 0,0                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., Mgr. Martin Šebesta, PhD.,<br>RNDr. Hubert Žarnovičan, PhD.                                                                                  |     |                                            |     |     |     |
| <b>Last change:</b> 11.02.2020                                                                                                                                                                                           |     |                                            |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                      |     |                                            |     |     |     |

## COURSE DESCRIPTION

|                                                                                                                                                                                                                          |     |                                            |     |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                     |     |                                            |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                              |     |                                            |     |     |     |
| <b>Course ID:</b><br>PriF.KEM/N-mXXX-004/19                                                                                                                                                                              |     | <b>Course title:</b><br>Green University 2 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 2 <b>per level/semester:</b> 28 / 28<br><b>Form of the course:</b> on-site learning |     |                                            |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                                              |     |                                            |     |     |     |
| <b>Recommended semester:</b> 1., 2., 3., 4..                                                                                                                                                                             |     |                                            |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                            |     |                                            |     |     |     |
| <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                                                                                                                                                                                                                        | B   | C                                          | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                    | 0,0 | 0,0                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., Mgr. Martin Šebesta, PhD.,<br>RNDr. Hubert Žarnovičan, PhD.                                                                                  |     |                                            |     |     |     |
| <b>Last change:</b> 11.02.2020                                                                                                                                                                                           |     |                                            |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                      |     |                                            |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------|-----|-------|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                                               |     |       |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                                               |     |       |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-117/15                                                                                                                                                      |       | <b>Course title:</b><br>Introduction to Theory of Solid Phase |     |       |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                               |     |       |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |       |                                                               |     |       |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                    |       |                                                               |     |       |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                                               |     |       |     |
| <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: 14                                                                                                                           |       |                                                               |     |       |     |
| A                                                                                                                                                                                                  | B     | C                                                             | D   | E     | FX  |
| 57,14                                                                                                                                                                                              | 14,29 | 14,29                                                         | 0,0 | 14,29 | 0,0 |
| <b>Lecturers:</b> doc. Ing. Tomáš Bučko, PhD.                                                                                                                                                      |       |                                                               |     |       |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |       |                                                               |     |       |     |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                                               |     |       |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                                       |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                                       |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-124/15                                                                                                                                                      |     | <b>Course title:</b><br>Kinetics and Mechanisms of Chemical Reactions |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                                                       |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                        |     |                                                                       |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                    |     |                                                                       |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                                       |     |     |     |
| <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                                                                                                                                                                                                  | B   | C                                                                     | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                                                   | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Peter Ševčík, DrSc., RNDr. Erik Szabó, PhD.                                                                                                                          |     |                                                                       |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |     |                                                                       |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                                       |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------|------|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                                  |      |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                                  |      |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-100/15                                                                                                                                                      |       | <b>Course title:</b><br>Macromolecular Chemistry |      |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                  |      |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |       |                                                  |      |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                    |       |                                                  |      |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                                  |      |     |     |
| <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: 13                                                                                                                           |       |                                                  |      |     |     |
| A                                                                                                                                                                                                  | B     | C                                                | D    | E   | FX  |
| 15,38                                                                                                                                                                                              | 38,46 | 38,46                                            | 7,69 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Peter Cifra, DrSc., Mgr. Juraj Kronek, PhD.                                                                                                                                |       |                                                  |      |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |       |                                                  |      |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                                  |      |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                                    |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                                    |     |     |     |
| <b>Course ID:</b><br>PriF.KAgCh/N-mCAG-100/15                                                                                                                                                      |     | <b>Course title:</b><br>Magnetic Properties of Inorganic Compounds |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                                                    |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |     |                                                                    |     |     |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                    |     |                                                                    |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                                    |     |     |     |
| <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                                                                                                                                                                                                  | B   | C                                                                  | D   | E   | FX  |
| 0,0                                                                                                                                                                                                | 0,0 | 0,0                                                                | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Gustáv Plesch, DrSc.                                                                                                                                                 |     |                                                                    |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |     |                                                                    |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                                    |     |     |     |

## STATE EXAM DESCRIPTION

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                               |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                               |
| <b>Course ID:</b><br>PriF.KFTCh/N-mOBH-100/15        | <b>Course title:</b><br>Master Thesis Defense |
| <b>Number of credits:</b> 10                         |                                               |
| <b>Educational level:</b> II.                        |                                               |
| <b>State exam syllabus:</b>                          |                                               |
| <b>Last change:</b>                                  |                                               |
| <b>Approved by:</b>                                  |                                               |

## COURSE DESCRIPTION

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------|------|-----|------|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |       |                                             |      |     |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |       |                                             |      |     |      |
| <b>Course ID:</b><br>PriF.KAgCh/N-mCAG-101/15                                                                                                                                                                         |       | <b>Course title:</b><br>Materials Chemistry |      |     |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 1 <b>per level/semester:</b> 28 / 14<br><b>Form of the course:</b> on-site learning |       |                                             |      |     |      |
| <b>Number of credits:</b> 3                                                                                                                                                                                           |       |                                             |      |     |      |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                       |       |                                             |      |     |      |
| <b>Educational level:</b> II.                                                                                                                                                                                         |       |                                             |      |     |      |
| <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: 15                                                                                                                                              |       |                                             |      |     |      |
| A                                                                                                                                                                                                                     | B     | C                                           | D    | E   | FX   |
| 33,33                                                                                                                                                                                                                 | 33,33 | 20,0                                        | 6,67 | 0,0 | 6,67 |
| <b>Lecturers:</b> prof. RNDr. Gustáv Plesch, DrSc.                                                                                                                                                                    |       |                                             |      |     |      |
| <b>Last change:</b> 22.11.2017                                                                                                                                                                                        |       |                                             |      |     |      |
| <b>Approved by:</b>                                                                                                                                                                                                   |       |                                             |      |     |      |

## STATE EXAM DESCRIPTION

|                                                      |                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                                                          |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                                                          |
| <b>Course ID:</b><br>PriF.KJCh/N-CHFZ-955/20         | <b>Course title:</b><br>Medzimolekulové interakcie a chemická reaktivita |
| <b>Number of credits:</b> 1                          |                                                                          |
| <b>Educational level:</b> II.                        |                                                                          |
| <b>State exam syllabus:</b>                          |                                                                          |
| <b>Last change:</b>                                  |                                                                          |
| <b>Approved by:</b>                                  |                                                                          |

## COURSE DESCRIPTION

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |     |                                                   |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |     |                                                   |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-132/15                                                                                                                                                                         |     | <b>Course title:</b><br>Metallo-organic chemistry |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 1 <b>per level/semester:</b> 28 / 14<br><b>Form of the course:</b> on-site learning |     |                                                   |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                                           |     |                                                   |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                                       |     |                                                   |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                         |     |                                                   |     |     |     |
| <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                                                                                                                                                                                                                     | B   | C                                                 | D   | E   | FX  |
| 0,0                                                                                                                                                                                                                   | 0,0 | 0,0                                               | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. Mgr. Radovan Šebesta, DrSc.                                                                                                                                                                   |     |                                                   |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |     |                                                   |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |     |                                                   |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                                          |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                          |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-114/15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | <b>Course title:</b><br>Methodics of Scientific Work (1) |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 4 <b>per level/semester:</b> 56<br><b>Form of the course:</b> on-site learning                                                                                                                                                                                                                                                                                                                        |     |                                                          |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                          |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                                          |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                                                          |     |     |     |
| <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: 7                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                          |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | B   | C                                                        | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,0 | 0,0                                                      | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Juraj Bujdák, DrSc., doc. Ing. Marián Janek, PhD., RNDr. Monika Jerigová, PhD., RNDr. Erik Szabó, PhD., doc. RNDr. Ivan Valent, CSc., doc. Ing. Dušan Velič, DrSc., RNDr. Dušan Lorenc, PhD., doc. Ing. Tomáš Bučko, PhD., prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Vladimír Kellö, DrSc., doc. Mgr. Pavel Neogrady, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Miroslav Urban, DrSc., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD. |     |                                                          |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                          |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                          |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                                          |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                          |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-115/15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | <b>Course title:</b><br>Methodics of Scientific Work (2) |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 4 <b>per level/semester:</b> 56<br><b>Form of the course:</b> on-site learning                                                                                                                                                                                                                                                                                                                        |     |                                                          |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                          |     |     |     |
| <b>Recommended semester:</b> 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                                          |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                                                          |     |     |     |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                          |     |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | B   | C                                                        | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,0 | 0,0                                                      | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Juraj Bujdák, DrSc., doc. Ing. Marián Janek, PhD., RNDr. Erik Szabó, PhD., doc. RNDr. Ivan Valent, CSc., doc. Ing. Dušan Velič, DrSc., RNDr. Monika Jerigová, PhD., RNDr. Dušan Lorenc, PhD., doc. Ing. Tomáš Bučko, PhD., prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Vladimír Kellö, DrSc., doc. Mgr. Pavel Neogrady, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Miroslav Urban, DrSc., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD. |     |                                                          |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                          |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                          |     |     |     |

## STATE EXAM DESCRIPTION

|                                                      |                                                   |
|------------------------------------------------------|---------------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                                   |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                                   |
| <b>Course ID:</b><br>PriF.KAlCh/N-CHFZ-957/20        | <b>Course title:</b><br>Metódy teoretickej chémie |
| <b>Number of credits:</b> 1                          |                                                   |
| <b>Educational level:</b> II.                        |                                                   |
| <b>State exam syllabus:</b>                          |                                                   |
| <b>Last change:</b>                                  |                                                   |
| <b>Approved by:</b>                                  |                                                   |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                             |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                             |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-116/15                                                                                                                                                      |     | <b>Course title:</b><br>Modern Methods in Chemical Kinetics |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 1 <b>per level/semester:</b> 14<br><b>Form of the course:</b> on-site learning |     |                                                             |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                        |     |                                                             |     |     |     |
| <b>Recommended semester:</b> 2., 4.                                                                                                                                                                |     |                                                             |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                             |     |     |     |
| <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                                                                                                                                                                                                  | B   | C                                                           | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                                         | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Erik Szabó, PhD., doc. RNDr. Ivan Valent, CSc.                                                                                                                             |     |                                                             |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |     |                                                             |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                             |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-050/15                                                                                                                                                      |     | <b>Course title:</b><br>Nonequilibrium systems |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                                |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |     |                                                |     |     |     |
| <b>Recommended semester:</b> 1.                                                                                                                                                                    |     |                                                |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                |     |     |     |
| <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: 11                                                                                                                           |     |                                                |     |     |     |
| A                                                                                                                                                                                                  | B   | C                                              | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                            | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. RNDr. Ivan Valent, CSc.                                                                                                                                                     |     |                                                |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |     |                                                |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------|-------|------|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                                           |       |      |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                                           |       |      |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-104/15                                                                                                                                                      |       | <b>Course title:</b><br>Photochemistry and femtochemistry |       |      |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |       |                                                           |       |      |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |       |                                                           |       |      |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |       |                                                           |       |      |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                                           |       |      |     |
| <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: 17                                                                                                                           |       |                                                           |       |      |     |
| A                                                                                                                                                                                                  | B     | C                                                         | D     | E    | FX  |
| 47,06                                                                                                                                                                                              | 35,29 | 0,0                                                       | 11,76 | 5,88 | 0,0 |
| <b>Lecturers:</b> doc. Ing. Dušan Velič, DrSc.                                                                                                                                                     |       |                                                           |       |      |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |       |                                                           |       |      |     |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                                           |       |      |     |

## STATE EXAM DESCRIPTION

|                                                      |                                            |
|------------------------------------------------------|--------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                            |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                            |
| <b>Course ID:</b><br>PriF.KFTCh/N-CHFZ-955/15        | <b>Course title:</b><br>Physical Chemistry |
| <b>Number of credits:</b> 2                          |                                            |
| <b>Educational level:</b> II.                        |                                            |
| <b>State exam syllabus:</b>                          |                                            |
| <b>Last change:</b> 11.12.2019                       |                                            |
| <b>Approved by:</b>                                  |                                            |

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |      |                                            |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |      |                                            |     |     |     |
| <b>Course ID:</b><br>PriF.KTV/N-mXTV-107/18                                                                                                                                                           |      | <b>Course title:</b><br>Physical Education |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |      |                                            |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                           |      |                                            |     |     |     |
| <b>Recommended semester:</b> 1.                                                                                                                                                                       |      |                                            |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |      |                                            |     |     |     |
| <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: 155                                                                                                                             |      |                                            |     |     |     |
| A                                                                                                                                                                                                     | B    | C                                          | D   | E   | FX  |
| 98,71                                                                                                                                                                                                 | 1,29 | 0,0                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková  |      |                                            |     |     |     |
| <b>Last change:</b>                                                                                                                                                                                   |      |                                            |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |      |                                            |     |     |     |

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |     |                                            |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |     |                                            |     |     |     |
| <b>Course ID:</b><br>PriF.KTV/N-mXTV-109/18                                                                                                                                                           |     | <b>Course title:</b><br>Physical Education |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                            |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                           |     |                                            |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                       |     |                                            |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |     |                                            |     |     |     |
| <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: 181                                                                                                                             |     |                                            |     |     |     |
| A                                                                                                                                                                                                     | B   | C                                          | D   | E   | FX  |
| 100,0                                                                                                                                                                                                 | 0,0 | 0,0                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková  |     |                                            |     |     |     |
| <b>Last change:</b>                                                                                                                                                                                   |     |                                            |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |     |                                            |     |     |     |

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |     |                                               |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |     |                                               |     |     |     |
| <b>Course ID:</b><br>PriF.KTV/N-mXTV-110/18                                                                                                                                                           |     | <b>Course title:</b><br>Physical Education 10 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                               |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                           |     |                                               |     |     |     |
| <b>Recommended semester:</b> 4.                                                                                                                                                                       |     |                                               |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |     |                                               |     |     |     |
| <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: 132                                                                                                                             |     |                                               |     |     |     |
| A                                                                                                                                                                                                     | B   | C                                             | D   | E   | FX  |
| 100,0                                                                                                                                                                                                 | 0,0 | 0,0                                           | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková  |     |                                               |     |     |     |
| <b>Last change:</b>                                                                                                                                                                                   |     |                                               |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |     |                                               |     |     |     |

## COURSE DESCRIPTION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                  |     |                                              |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                           |     |                                              |     |     |     |
| <b>Course ID:</b><br>PriF.KTV/N-mXTV-108/18                                                                                                                                                           |     | <b>Course title:</b><br>Physical Education 8 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                              |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                           |     |                                              |     |     |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                       |     |                                              |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                         |     |                                              |     |     |     |
| <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: 200                                                                                                                             |     |                                              |     |     |     |
| A                                                                                                                                                                                                     | B   | C                                            | D   | E   | FX  |
| 100,0                                                                                                                                                                                                 | 0,0 | 0,0                                          | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Kristína Vanýsková, PaedDr. Vladimír Hubka, Mgr. Miriam Kirchmayerová, PhD., Mgr. Ján Krošlák, Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková  |     |                                              |     |     |     |
| <b>Last change:</b>                                                                                                                                                                                   |     |                                              |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                   |     |                                              |     |     |     |

## COURSE DESCRIPTION

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                                                           |     |                                             |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                                    |     |                                             |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-125/15                                                                                                                                                                                                                                                  |     | <b>Course title:</b><br>Pre-diploma seminar |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning                                                                                             |     |                                             |     |     |     |
| <b>Number of credits:</b> 2                                                                                                                                                                                                                                                                    |     |                                             |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                                                                                                                |     |                                             |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                                                                  |     |                                             |     |     |     |
| <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: 13                                                                                                                                                                                                                       |     |                                             |     |     |     |
| A                                                                                                                                                                                                                                                                                              | B   | C                                           | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                                                          | 0,0 | 0,0                                         | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Juraj Bujdák, DrSc., doc. Ing. Marián Janek, PhD., RNDr. Erik Szabó, PhD., doc. RNDr. Ivan Valent, CSc., doc. Ing. Dušan Velič, DrSc., RNDr. Monika Jerigová, PhD., prof. RNDr. Vladimír Kellö, DrSc., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD. |     |                                             |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                                                                 |     |                                             |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                            |     |                                             |     |     |     |

## COURSE DESCRIPTION

|                                                                                                                                                                                                                       |       |                                           |      |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------|------|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |       |                                           |      |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |       |                                           |      |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-101/15                                                                                                                                                                         |       | <b>Course title:</b><br>Quantum Chemistry |      |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 2 / 1 <b>per level/semester:</b> 28 / 14<br><b>Form of the course:</b> on-site learning |       |                                           |      |     |     |
| <b>Number of credits:</b> 4                                                                                                                                                                                           |       |                                           |      |     |     |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                       |       |                                           |      |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                         |       |                                           |      |     |     |
| <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: 18                                                                                                                                              |       |                                           |      |     |     |
| A                                                                                                                                                                                                                     | B     | C                                         | D    | E   | FX  |
| 61,11                                                                                                                                                                                                                 | 22,22 | 11,11                                     | 5,56 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. Mgr. Pavel Neogrady, DrSc., prof. RNDr. Miroslav Urban, DrSc.                                                                                                                                  |       |                                           |      |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |       |                                           |      |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |       |                                           |      |     |     |

## COURSE DESCRIPTION

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                  |      |                                                            |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                           |      |                                                            |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-123/15                                                                                                                                                                         |      | <b>Course title:</b><br>Selected Topics in Mathematics (2) |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture / seminar<br><b>Number of hours:</b><br><b>per week:</b> 1 / 1 <b>per level/semester:</b> 14 / 14<br><b>Form of the course:</b> on-site learning |      |                                                            |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                                           |      |                                                            |     |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                                   |      |                                                            |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                         |      |                                                            |     |     |     |
| <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: 5                                                                                                                                               |      |                                                            |     |     |     |
| A                                                                                                                                                                                                                     | B    | C                                                          | D   | E   | FX  |
| 20,0                                                                                                                                                                                                                  | 80,0 | 0,0                                                        | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Michal Demetrian, PhD.                                                                                                                                                                        |      |                                                            |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                        |      |                                                            |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                   |      |                                                            |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |     |                                                                                        |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |     |                                                                                        |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-121/15                                                                                                                                                      |     | <b>Course title:</b><br>Selected Topics in Theoretical and Computational Chemistry (2) |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 2 <b>per level/semester:</b> 28<br><b>Form of the course:</b> on-site learning |     |                                                                                        |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                        |     |                                                                                        |     |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |     |                                                                                        |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                      |     |                                                                                        |     |     |     |
| <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: 11                                                                                                                           |     |                                                                                        |     |     |     |
| A                                                                                                                                                                                                  | B   | C                                                                                      | D   | E   | FX  |
| 100,0                                                                                                                                                                                              | 0,0 | 0,0                                                                                    | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Vladimír Kellö, DrSc., RNDr. Lukáš Félix Pašteka, PhD., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Miroslav Urban, DrSc.                                            |     |                                                                                        |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                     |     |                                                                                        |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                |     |                                                                                        |     |     |     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------|-------|-------|------|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                               |       |                                              |       |       |      |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                        |       |                                              |       |       |      |
| <b>Course ID:</b><br>PriF.KJCh/N-mCJD-103/15                                                                                                                                                       |       | <b>Course title:</b><br>Separative Chemistry |       |       |      |
| <b>Educational activities:</b><br><b>Type of activities:</b> lecture<br><b>Number of hours:</b><br><b>per week:</b> 4 <b>per level/semester:</b> 56<br><b>Form of the course:</b> on-site learning |       |                                              |       |       |      |
| <b>Number of credits:</b> 6                                                                                                                                                                        |       |                                              |       |       |      |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                                |       |                                              |       |       |      |
| <b>Educational level:</b> II.                                                                                                                                                                      |       |                                              |       |       |      |
| <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: 26                                                                                                                           |       |                                              |       |       |      |
| A                                                                                                                                                                                                  | B     | C                                            | D     | E     | FX   |
| 11,54                                                                                                                                                                                              | 11,54 | 15,38                                        | 38,46 | 19,23 | 3,85 |
| <b>Lecturers:</b> RNDr. Oľga Roskopfová, PhD.                                                                                                                                                      |       |                                              |       |       |      |
| <b>Last change:</b> 15.11.2017                                                                                                                                                                     |       |                                              |       |       |      |
| <b>Approved by:</b>                                                                                                                                                                                |       |                                              |       |       |      |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                                                  |     |                                          |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                                                           |     |                                          |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-118/15                                                                                                                                                                                                                                         |     | <b>Course title:</b><br>Special Practice |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> other<br><b>Number of hours:</b><br><b>per week:</b> <b>per level/semester:</b> 17d<br><b>Form of the course:</b> on-site learning                                                                                       |     |                                          |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                                                                                                           |     |                                          |     |     |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                                                                                       |     |                                          |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                                                         |     |                                          |     |     |     |
| <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: 14                                                                                                                                                                                                              |     |                                          |     |     |     |
| A                                                                                                                                                                                                                                                                                     | B   | C                                        | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                                                 | 0,0 | 0,0                                      | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> prof. RNDr. Juraj Bujdák, DrSc., RNDr. Erik Szabó, PhD., doc. RNDr. Ivan Valent, CSc., doc. Ing. Dušan Velič, DrSc., doc. Ing. Marián Janek, PhD., RNDr. Monika Jerigová, PhD., RNDr. Dušan Lorenc, PhD., Mgr. Táňa Sebechlebská, PhD., RNDr. Eva Noskovičová, PhD. |     |                                          |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                                                        |     |                                          |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                                                   |     |                                          |     |     |     |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                    |     |                                                              |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                             |     |                                                              |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-133/17                                                                                                                                                                                                           |     | <b>Course title:</b><br>Special exercise to diploma thesis 1 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 12 <b>per level/semester:</b> 168<br><b>Form of the course:</b> on-site learning                                                 |     |                                                              |     |     |     |
| <b>Number of credits:</b> 14                                                                                                                                                                                                                            |     |                                                              |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                                                                         |     |                                                              |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                           |     |                                                              |     |     |     |
| <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: 5                                                                                                                                                                                 |     |                                                              |     |     |     |
| A                                                                                                                                                                                                                                                       | B   | C                                                            | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                   | 0,0 | 0,0                                                          | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. Ing. Tomáš Bučko, PhD., prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Vladimír Kellö, DrSc., doc. Mgr. Pavel Neogrady, DrSc., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Miroslav Urban, DrSc., RNDr. Lukáš Félix Pašteka, PhD. |     |                                                              |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                          |     |                                                              |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                     |     |                                                              |     |     |     |

## COURSE DESCRIPTION

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| <b>University:</b> Comenius University in Bratislava                                                                                                                                                                                                    |     |                                                              |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                                                                             |     |                                                              |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-134/17                                                                                                                                                                                                           |     | <b>Course title:</b><br>Special exercise to diploma thesis 2 |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practicals<br><b>Number of hours:</b><br><b>per week:</b> 14 <b>per level/semester:</b> 196<br><b>Form of the course:</b> on-site learning                                                 |     |                                                              |     |     |     |
| <b>Number of credits:</b> 10                                                                                                                                                                                                                            |     |                                                              |     |     |     |
| <b>Recommended semester:</b> 4.                                                                                                                                                                                                                         |     |                                                              |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                                                                           |     |                                                              |     |     |     |
| <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: 5                                                                                                                                                                                 |     |                                                              |     |     |     |
| A                                                                                                                                                                                                                                                       | B   | C                                                            | D   | E   | FX  |
| 100,0                                                                                                                                                                                                                                                   | 0,0 | 0,0                                                          | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> doc. Ing. Tomáš Bučko, PhD., prof. RNDr. Ivan Černušák, DrSc., prof. RNDr. Vladimír Kellö, DrSc., doc. Mgr. Pavel Neogrady, DrSc., doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Miroslav Urban, DrSc., RNDr. Lukáš Félix Pašteka, PhD. |     |                                                              |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                                                                          |     |                                                              |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                                                                                     |     |                                                              |     |     |     |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                              |     |                                               |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                       |     |                                               |     |     |     |
| <b>Course ID:</b><br>PriF.KFTCh/N-mCFZ-131/15                                                                                                                                                     |     | <b>Course title:</b><br>Specialistic Practise |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> practice<br><b>Number of hours:</b><br><b>per week:</b> <b>per level/semester:</b> 3t<br><b>Form of the course:</b> on-site learning |     |                                               |     |     |     |
| <b>Number of credits:</b> 3                                                                                                                                                                       |     |                                               |     |     |     |
| <b>Recommended semester:</b> 3.                                                                                                                                                                   |     |                                               |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                     |     |                                               |     |     |     |
| <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                                                                                                                                                                                                 | B   | C                                             | D   | E   | FX  |
| 100,0                                                                                                                                                                                             | 0,0 | 0,0                                           | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> RNDr. Erik Szabó, PhD.                                                                                                                                                          |     |                                               |     |     |     |
| <b>Last change:</b> 23.11.2017                                                                                                                                                                    |     |                                               |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                               |     |                                               |     |     |     |

## COURSE DESCRIPTION

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                           |     |                                                           |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                    |     |                                                           |     |     |     |
| <b>Course ID:</b><br>PriF.KTV/N-mUXX-204/10                                                                                                                                                    |     | <b>Course title:</b><br>Summer physic-educational meeting |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> other<br><b>Number of hours:</b><br><b>per week:</b> <b>per level/semester:</b> 7d<br><b>Form of the course:</b> on-site learning |     |                                                           |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                    |     |                                                           |     |     |     |
| <b>Recommended semester:</b> 2.                                                                                                                                                                |     |                                                           |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                  |     |                                                           |     |     |     |
| <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: 50                                                                                                                       |     |                                                           |     |     |     |
| A                                                                                                                                                                                              | B   | C                                                         | D   | E   | FX  |
| 100,0                                                                                                                                                                                          | 0,0 | 0,0                                                       | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Kristína Vanýsková                                                                                                                                                      |     |                                                           |     |     |     |
| <b>Last change:</b>                                                                                                                                                                            |     |                                                           |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                            |     |                                                           |     |     |     |

## STATE EXAM DESCRIPTION

|                                                      |                                                                 |
|------------------------------------------------------|-----------------------------------------------------------------|
| <b>University:</b> Comenius University in Bratislava |                                                                 |
| <b>Faculty:</b> Faculty of Natural Sciences          |                                                                 |
| <b>Course ID:</b><br>PriF.KFTCh/N-CHFZ-957/15        | <b>Course title:</b><br>Theoretical and Computational Chemistry |
| <b>Number of credits:</b> 2                          |                                                                 |
| <b>Educational level:</b> II.                        |                                                                 |
| <b>State exam syllabus:</b>                          |                                                                 |
| <b>Last change:</b> 11.12.2019                       |                                                                 |
| <b>Approved by:</b>                                  |                                                                 |

## COURSE DESCRIPTION

|                                                                                                                                                                                                |     |                                                           |     |     |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------|-----|-----|-----|
| <b>University:</b> Comenius University in Bratislava                                                                                                                                           |     |                                                           |     |     |     |
| <b>Faculty:</b> Faculty of Natural Sciences                                                                                                                                                    |     |                                                           |     |     |     |
| <b>Course ID:</b><br>PriF.KTV/N-mUXX-203/10                                                                                                                                                    |     | <b>Course title:</b><br>Winter physic-educational meeting |     |     |     |
| <b>Educational activities:</b><br><b>Type of activities:</b> other<br><b>Number of hours:</b><br><b>per week:</b> <b>per level/semester:</b> 7d<br><b>Form of the course:</b> on-site learning |     |                                                           |     |     |     |
| <b>Number of credits:</b> 1                                                                                                                                                                    |     |                                                           |     |     |     |
| <b>Recommended semester:</b> 1., 3.                                                                                                                                                            |     |                                                           |     |     |     |
| <b>Educational level:</b> II.                                                                                                                                                                  |     |                                                           |     |     |     |
| <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: 161                                                                                                                      |     |                                                           |     |     |     |
| A                                                                                                                                                                                              | B   | C                                                         | D   | E   | FX  |
| 100,0                                                                                                                                                                                          | 0,0 | 0,0                                                       | 0,0 | 0,0 | 0,0 |
| <b>Lecturers:</b> Mgr. Martin Mokošák, PhD.                                                                                                                                                    |     |                                                           |     |     |     |
| <b>Last change:</b>                                                                                                                                                                            |     |                                                           |     |     |     |
| <b>Approved by:</b>                                                                                                                                                                            |     |                                                           |     |     |     |