

## Course descriptions

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## COURSE DESCRIPTION

|                                                                                                                                                                                |                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-803/10                                                                                                                               | <b>Course title:</b><br>BSc Thesis Supervision |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning |                                                |
| <b>Number of credits:</b> 10                                                                                                                                                   |                                                |
| <b>Recommended semester:</b> 3., 4..                                                                                                                                           |                                                |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                |
| <b>Course requirements:</b>                                                                                                                                                    |                                                |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                |
| <b>Notes:</b>                                                                                                                                                                  |                                                |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |                                                |
| ABS                                                                                                                                                                            | NEABS                                          |
| 0,0                                                                                                                                                                            | 0,0                                            |
| <b>Lecturers:</b>                                                                                                                                                              |                                                |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                |
| <b>Approved by:</b>                                                                                                                                                            |                                                |

## COURSE DESCRIPTION

|                                                                                                                                                                                                                          |       |     |     |                                                               |      |     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|-----|---------------------------------------------------------------|------|-----|-------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                                          |       |     |     |                                                               |      |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                        |       |     |     |                                                               |      |     |       |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                                          |       |     |     |                                                               |      |     |       |
| <b>Course ID:</b><br>FMFI.KJP/3-MXX-101/15                                                                                                                                                                               |       |     |     | <b>Course title:</b><br>Course of English for PhD Studies (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> 26<br><b>Form of the course:</b> on-site learning, distance learning |       |     |     |                                                               |      |     |       |
| <b>Number of credits:</b> 5                                                                                                                                                                                              |       |     |     |                                                               |      |     |       |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                          |       |     |     |                                                               |      |     |       |
| <b>Educational level:</b> III.                                                                                                                                                                                           |       |     |     |                                                               |      |     |       |
| <b>Prerequisites:</b>                                                                                                                                                                                                    |       |     |     |                                                               |      |     |       |
| <b>Course requirements:</b>                                                                                                                                                                                              |       |     |     |                                                               |      |     |       |
| <b>Learning outcomes:</b>                                                                                                                                                                                                |       |     |     |                                                               |      |     |       |
| <b>Class syllabus:</b>                                                                                                                                                                                                   |       |     |     |                                                               |      |     |       |
| <b>Recommended literature:</b>                                                                                                                                                                                           |       |     |     |                                                               |      |     |       |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                                       |       |     |     |                                                               |      |     |       |
| <b>Notes:</b>                                                                                                                                                                                                            |       |     |     |                                                               |      |     |       |
| <b>Past grade distribution</b><br>Total number of evaluated students: 166                                                                                                                                                |       |     |     |                                                               |      |     |       |
| A                                                                                                                                                                                                                        | ABS   | B   | C   | D                                                             | E    | FX  | NEABS |
| 50,6                                                                                                                                                                                                                     | 43,98 | 0,6 | 0,0 | 0,0                                                           | 2,41 | 0,0 | 2,41  |
| <b>Lecturers:</b> PhDr. Alena Zemanová                                                                                                                                                                                   |       |     |     |                                                               |      |     |       |
| <b>Last change:</b> 20.06.2022                                                                                                                                                                                           |       |     |     |                                                               |      |     |       |
| <b>Approved by:</b>                                                                                                                                                                                                      |       |     |     |                                                               |      |     |       |

## COURSE DESCRIPTION

|                                                                                                                                                                                                                          |       |     |                                                               |     |     |     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|---------------------------------------------------------------|-----|-----|-----|-------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                                          |       |     |                                                               |     |     |     |       |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                        |       |     |                                                               |     |     |     |       |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                                          |       |     |                                                               |     |     |     |       |
| <b>Course ID:</b><br>FMFI.KJP/3-MXX-102/15                                                                                                                                                                               |       |     | <b>Course title:</b><br>Course of English for PhD Studies (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> 26<br><b>Form of the course:</b> on-site learning, distance learning |       |     |                                                               |     |     |     |       |
| <b>Number of credits:</b> 5                                                                                                                                                                                              |       |     |                                                               |     |     |     |       |
| <b>Recommended semester:</b> 2.                                                                                                                                                                                          |       |     |                                                               |     |     |     |       |
| <b>Educational level:</b> III.                                                                                                                                                                                           |       |     |                                                               |     |     |     |       |
| <b>Prerequisites:</b> FMFI.KJP/3-MXX-101/15 - Course of English for PhD Studies (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: 161                                                                                                                                                |       |     |                                                               |     |     |     |       |
| A                                                                                                                                                                                                                        | ABS   | B   | C                                                             | D   | E   | FX  | NEABS |
| 54,66                                                                                                                                                                                                                    | 38,51 | 0,0 | 0,0                                                           | 0,0 | 0,0 | 0,0 | 6,83  |
| <b>Lecturers:</b> PhDr. Alena Zemanová                                                                                                                                                                                   |       |     |                                                               |     |     |     |       |
| <b>Last change:</b> 20.06.2022                                                                                                                                                                                           |       |     |                                                               |     |     |     |       |
| <b>Approved by:</b>                                                                                                                                                                                                      |       |     |                                                               |     |     |     |       |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                             |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-806/10                                                                                                                               | <b>Course title:</b><br>Creation of Teaching Texts and Aids |
| <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> 6                                                                                                                                                    |                                                             |
| <b>Recommended semester:</b> 7., 8..                                                                                                                                           |                                                             |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                             |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                             |
| <b>Course requirements:</b>                                                                                                                                                    |                                                             |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                             |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                             |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                             |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                             |
| <b>Notes:</b>                                                                                                                                                                  |                                                             |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |                                                             |
| ABS                                                                                                                                                                            | NEABS                                                       |
| 0,0                                                                                                                                                                            | 0,0                                                         |
| <b>Lecturers:</b>                                                                                                                                                              |                                                             |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                             |
| <b>Approved by:</b>                                                                                                                                                            |                                                             |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                        |                                                                          |
| <b>University:</b> Comenius University Bratislava                                                                                                                                      |                                                                          |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                        |                                                                          |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-052/12                                                                                                                                       | <b>Course title:</b><br>Development of Software for Teaching Mathematics |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br>per week: 2   per level/semester: 26<br><b>Form of the course:</b> on-site learning |                                                                          |
| <b>Number of credits:</b> 8                                                                                                                                                            |                                                                          |
| <b>Recommended semester:</b> 3.                                                                                                                                                        |                                                                          |
| <b>Educational level:</b> III.                                                                                                                                                         |                                                                          |
| <b>Prerequisites:</b>                                                                                                                                                                  |                                                                          |
| <b>Course requirements:</b>                                                                                                                                                            |                                                                          |
| <b>Learning outcomes:</b>                                                                                                                                                              |                                                                          |
| <b>Class syllabus:</b>                                                                                                                                                                 |                                                                          |
| <b>Recommended literature:</b>                                                                                                                                                         |                                                                          |
| <b>Languages necessary to complete the course:</b>                                                                                                                                     |                                                                          |
| <b>Notes:</b>                                                                                                                                                                          |                                                                          |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                |                                                                          |
| ABS                                                                                                                                                                                    | NEABS                                                                    |
| 0,0                                                                                                                                                                                    | 0,0                                                                      |
| <b>Lecturers:</b> doc. PaedDr. Monika Tomcsányiová, PhD.                                                                                                                               |                                                                          |
| <b>Last change:</b> 02.06.2015                                                                                                                                                         |                                                                          |
| <b>Approved by:</b>                                                                                                                                                                    |                                                                          |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                    |                                                  |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                  |                                                  |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                    |                                                  |
| <b>Course ID:</b><br>FMFI.KAG+KDMFI/3-MVM-039/15                                                                                                                                                   | <b>Course title:</b><br>Didactic Research Design |
| <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> 26<br><b>Form of the course:</b> on-site learning |                                                  |
| <b>Number of credits:</b> 8                                                                                                                                                                        |                                                  |
| <b>Recommended semester:</b> 2.                                                                                                                                                                    |                                                  |
| <b>Educational level:</b> III.                                                                                                                                                                     |                                                  |
| <b>Prerequisites:</b>                                                                                                                                                                              |                                                  |
| <b>Antirequisites:</b> FMFI.KAGDM/3-MVM-039/10                                                                                                                                                     |                                                  |
| <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                                                                                                                            |                                                  |
| ABS                                                                                                                                                                                                | NEABS                                            |
| 0,0                                                                                                                                                                                                | 0,0                                              |
| <b>Lecturers:</b> doc. PaedDr. Mária Slavíčková, PhD.                                                                                                                                              |                                                  |
| <b>Last change:</b> 02.06.2015                                                                                                                                                                     |                                                  |
| <b>Approved by:</b>                                                                                                                                                                                |                                                  |

## STATE EXAM DESCRIPTION

|                                                                 |                                                       |
|-----------------------------------------------------------------|-------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                 |                                                       |
| <b>University:</b> Comenius University Bratislava               |                                                       |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics |                                                       |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-990/15                | <b>Course title:</b><br>Dissertation Thesis Admission |
| <b>Number of credits:</b> 30                                    |                                                       |
| <b>Recommended semester:</b> 7., 8..                            |                                                       |
| <b>Educational level:</b> III.                                  |                                                       |
| <b>State exam syllabus:</b>                                     |                                                       |
| <b>Last change:</b> 02.06.2015                                  |                                                       |
| <b>Approved by:</b>                                             |                                                       |



## COURSE DESCRIPTION

|                                                                                                                                                                           |                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                           |                                                                          |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                                                          |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                           |                                                                          |
| <b>Course ID:</b><br>FMFI.KDMFI/3-MVM-303/10                                                                                                                              | <b>Course title:</b><br>Foreign Periodical not Cited in Current Contents |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                                                          |
| <b>Number of credits:</b> 20                                                                                                                                              |                                                                          |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                      |                                                                          |
| <b>Educational level:</b> III.                                                                                                                                            |                                                                          |
| <b>Prerequisites:</b>                                                                                                                                                     |                                                                          |
| <b>Course requirements:</b>                                                                                                                                               |                                                                          |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                                                          |
| <b>Class syllabus:</b>                                                                                                                                                    |                                                                          |
| <b>Recommended literature:</b>                                                                                                                                            |                                                                          |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                                                          |
| <b>Notes:</b>                                                                                                                                                             |                                                                          |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                   |                                                                          |
| ABS                                                                                                                                                                       | NEABS                                                                    |
| 100,0                                                                                                                                                                     | 0,0                                                                      |
| <b>Lecturers:</b>                                                                                                                                                         |                                                                          |
| <b>Last change:</b> 02.06.2015                                                                                                                                            |                                                                          |
| <b>Approved by:</b>                                                                                                                                                       |                                                                          |

## COURSE DESCRIPTION

|                                                                                                                                                                                |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                                    |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                                    |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                                    |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-804/10                                                                                                                               | <b>Course title:</b><br>Guidance of the Students' Research Project |
| <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> 7                                                                                                                                                    |                                                                    |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                           |                                                                    |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                                    |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                                    |
| <b>Course requirements:</b>                                                                                                                                                    |                                                                    |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                                    |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                                    |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                                    |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                                    |
| <b>Notes:</b>                                                                                                                                                                  |                                                                    |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |                                                                    |
| ABS                                                                                                                                                                            | NEABS                                                              |
| 0,0                                                                                                                                                                            | 0,0                                                                |
| <b>Lecturers:</b>                                                                                                                                                              |                                                                    |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                                    |
| <b>Approved by:</b>                                                                                                                                                            |                                                                    |

## COURSE DESCRIPTION

|                                                                                                                                                                                |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                                    |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                                    |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                                    |
| <b>Course ID:</b><br>FMFI.KDMFI/3-MVM-304/10                                                                                                                                   | <b>Course title:</b><br>Home Journal not Cited in Current Contents |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning |                                                                    |
| <b>Number of credits:</b> 15                                                                                                                                                   |                                                                    |
| <b>Recommended semester:</b> 3., 4..                                                                                                                                           |                                                                    |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                                    |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                                    |
| <b>Course requirements:</b>                                                                                                                                                    |                                                                    |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                                    |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                                    |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                                    |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                                    |
| <b>Notes:</b>                                                                                                                                                                  |                                                                    |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |                                                                    |
| ABS                                                                                                                                                                            | NEABS                                                              |
| 0,0                                                                                                                                                                            | 0,0                                                                |
| <b>Lecturers:</b>                                                                                                                                                              |                                                                    |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                                    |
| <b>Approved by:</b>                                                                                                                                                            |                                                                    |

## COURSE DESCRIPTION

|                                                                                                                                                                           |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                           |                                                    |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                                    |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                           |                                                    |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-703/10                                                                                                                          | <b>Course title:</b><br>Home Project Co-researcher |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                                    |
| <b>Number of credits:</b> 10                                                                                                                                              |                                                    |
| <b>Recommended semester:</b> 3., 4..                                                                                                                                      |                                                    |
| <b>Educational level:</b> III.                                                                                                                                            |                                                    |
| <b>Prerequisites:</b>                                                                                                                                                     |                                                    |
| <b>Course requirements:</b>                                                                                                                                               |                                                    |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                                    |
| <b>Class syllabus:</b>                                                                                                                                                    |                                                    |
| <b>Recommended literature:</b>                                                                                                                                            |                                                    |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                                    |
| <b>Notes:</b>                                                                                                                                                             |                                                    |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                   |                                                    |
| ABS                                                                                                                                                                       | NEABS                                              |
| 100,0                                                                                                                                                                     | 0,0                                                |
| <b>Lecturers:</b>                                                                                                                                                         |                                                    |
| <b>Last change:</b> 02.06.2015                                                                                                                                            |                                                    |
| <b>Approved by:</b>                                                                                                                                                       |                                                    |

## COURSE DESCRIPTION

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                                                                            |                                                            |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                                                                          |                                                            |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                                                                            |                                                            |
| <b>Course ID:</b><br>FMFI.KAG/3-MVM-055/12                                                                                                                                                                                                                 | <b>Course title:</b><br>ICT - Visualization and Activation |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week: 2 per level/semester: 26</b><br><b>Form of the course:</b> on-site learning                                                                |                                                            |
| <b>Number of credits:</b> 8                                                                                                                                                                                                                                |                                                            |
| <b>Recommended semester:</b> 1.                                                                                                                                                                                                                            |                                                            |
| <b>Educational level:</b> III.                                                                                                                                                                                                                             |                                                            |
| <b>Prerequisites:</b>                                                                                                                                                                                                                                      |                                                            |
| <b>Course requirements:</b><br>A 90%, B 80%, C 70%, D 60%, E 50%<br>Scale of assessment (preliminary/final): 100/0                                                                                                                                         |                                                            |
| <b>Learning outcomes:</b><br>Understanding the creation of visualization and activation virtual environments for education and digital cultural heritage.                                                                                                  |                                                            |
| <b>Class syllabus:</b><br>Virtual space and interaction. Visualization of multidimensional and culturally important data. User experience and usability testing for network accessible virtual presentations. Concept of digital library and semantic web. |                                                            |
| <b>Recommended literature:</b><br>Real-time rendering / Tomas Akenine-Möller, Eric Haines, Naty Hoffman. Wellesley : A. K. Peters, 2008.<br>Moderní počítačová grafika / Jiří Žára, Bedřich Beneš, Petr Felkel. Praha : Computer Press, 1998.              |                                                            |
| <b>Languages necessary to complete the course:</b><br>English and Slovak                                                                                                                                                                                   |                                                            |
| <b>Notes:</b>                                                                                                                                                                                                                                              |                                                            |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                                                                                    |                                                            |
| ABS                                                                                                                                                                                                                                                        | NEABS                                                      |
| 0,0                                                                                                                                                                                                                                                        | 0,0                                                        |
| <b>Lecturers:</b> doc. RNDr. Andrej Ferko, PhD.                                                                                                                                                                                                            |                                                            |
| <b>Last change:</b> 22.06.2022                                                                                                                                                                                                                             |                                                            |
| <b>Approved by:</b>                                                                                                                                                                                                                                        |                                                            |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                               |                                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                             |                                                                                |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                               |                                                                                |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-101/10                                                                                                                                                              | <b>Course title:</b><br>Individual Study of Science and Research Resources (1) |
| <b>Educational activities:</b><br><b>Type of activities:</b> independent work<br><b>Number of hours:</b><br><b>per week:</b> 10 <b>per level/semester:</b> 130<br><b>Form of the course:</b> on-site learning |                                                                                |
| <b>Number of credits:</b> 10                                                                                                                                                                                  |                                                                                |
| <b>Recommended semester:</b> 1., 2..                                                                                                                                                                          |                                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                |                                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                         |                                                                                |
| <b>Course requirements:</b>                                                                                                                                                                                   |                                                                                |
| <b>Learning outcomes:</b>                                                                                                                                                                                     |                                                                                |
| <b>Class syllabus:</b>                                                                                                                                                                                        |                                                                                |
| <b>Recommended literature:</b>                                                                                                                                                                                |                                                                                |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                            |                                                                                |
| <b>Notes:</b>                                                                                                                                                                                                 |                                                                                |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                                       |                                                                                |
| ABS                                                                                                                                                                                                           | NEABS                                                                          |
| 0,0                                                                                                                                                                                                           | 0,0                                                                            |
| <b>Lecturers:</b>                                                                                                                                                                                             |                                                                                |
| <b>Last change:</b> 02.06.2015                                                                                                                                                                                |                                                                                |
| <b>Approved by:</b>                                                                                                                                                                                           |                                                                                |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                               |                                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                             |                                                                                |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                               |                                                                                |
| <b>Course ID:</b><br>FMFI.KDMFI/3-MVM-102/15                                                                                                                                                                  | <b>Course title:</b><br>Individual Study of Science and Research Resources (2) |
| <b>Educational activities:</b><br><b>Type of activities:</b> independent work<br><b>Number of hours:</b><br><b>per week:</b> 10 <b>per level/semester:</b> 130<br><b>Form of the course:</b> on-site learning |                                                                                |
| <b>Number of credits:</b> 10                                                                                                                                                                                  |                                                                                |
| <b>Recommended semester:</b> 3., 4..                                                                                                                                                                          |                                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                |                                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                         |                                                                                |
| <b>Course requirements:</b>                                                                                                                                                                                   |                                                                                |
| <b>Learning outcomes:</b>                                                                                                                                                                                     |                                                                                |
| <b>Class syllabus:</b>                                                                                                                                                                                        |                                                                                |
| <b>Recommended literature:</b>                                                                                                                                                                                |                                                                                |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                            |                                                                                |
| <b>Notes:</b>                                                                                                                                                                                                 |                                                                                |
| <b>Past grade distribution</b><br>Total number of evaluated students: 2                                                                                                                                       |                                                                                |
| ABS                                                                                                                                                                                                           | NEABS                                                                          |
| 100,0                                                                                                                                                                                                         | 0,0                                                                            |
| <b>Lecturers:</b>                                                                                                                                                                                             |                                                                                |
| <b>Last change:</b>                                                                                                                                                                                           |                                                                                |
| <b>Approved by:</b>                                                                                                                                                                                           |                                                                                |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                               |                                                                                |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                             |                                                                                |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                               |                                                                                |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-104/10                                                                                                                                                              | <b>Course title:</b><br>Individual Study of Science and Research Resources (3) |
| <b>Educational activities:</b><br><b>Type of activities:</b> independent work<br><b>Number of hours:</b><br><b>per week:</b> 10 <b>per level/semester:</b> 130<br><b>Form of the course:</b> on-site learning |                                                                                |
| <b>Number of credits:</b> 10                                                                                                                                                                                  |                                                                                |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                                                          |                                                                                |
| <b>Educational level:</b> III.                                                                                                                                                                                |                                                                                |
| <b>Prerequisites:</b>                                                                                                                                                                                         |                                                                                |
| <b>Course requirements:</b>                                                                                                                                                                                   |                                                                                |
| <b>Learning outcomes:</b>                                                                                                                                                                                     |                                                                                |
| <b>Class syllabus:</b>                                                                                                                                                                                        |                                                                                |
| <b>Recommended literature:</b>                                                                                                                                                                                |                                                                                |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                            |                                                                                |
| <b>Notes:</b>                                                                                                                                                                                                 |                                                                                |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                                       |                                                                                |
| ABS                                                                                                                                                                                                           | NEABS                                                                          |
| 0,0                                                                                                                                                                                                           | 0,0                                                                            |
| <b>Lecturers:</b>                                                                                                                                                                                             |                                                                                |
| <b>Last change:</b>                                                                                                                                                                                           |                                                                                |
| <b>Approved by:</b>                                                                                                                                                                                           |                                                                                |



## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                             |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-702/10                                                                                                                               | <b>Course title:</b><br>International Project Co-researcher |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning |                                                             |
| <b>Number of credits:</b> 15                                                                                                                                                   |                                                             |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                           |                                                             |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                             |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                             |
| <b>Course requirements:</b>                                                                                                                                                    |                                                             |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                             |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                             |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                             |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                             |
| <b>Notes:</b>                                                                                                                                                                  |                                                             |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |                                                             |
| ABS                                                                                                                                                                            | NEABS                                                       |
| 0,0                                                                                                                                                                            | 0,0                                                         |
| <b>Lecturers:</b>                                                                                                                                                              |                                                             |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                             |
| <b>Approved by:</b>                                                                                                                                                            |                                                             |

## STATE EXAM DESCRIPTION

|                                                                 |                                                          |
|-----------------------------------------------------------------|----------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                 |                                                          |
| <b>University:</b> Comenius University Bratislava               |                                                          |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics |                                                          |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-950/15                | <b>Course title:</b><br>Passing Dissertation Examination |
| <b>Number of credits:</b> 20                                    |                                                          |
| <b>Recommended semester:</b> 3., 4..                            |                                                          |
| <b>Educational level:</b> III.                                  |                                                          |
| <b>State exam syllabus:</b>                                     |                                                          |
| <b>Last change:</b> 02.06.2015                                  |                                                          |
| <b>Approved by:</b>                                             |                                                          |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                             |                                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                                           |                                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                             |                                                                             |
| <b>Course ID:</b><br>FMFI.KAG/3-MVM-033/15                                                                                                                                                  | <b>Course title:</b><br>Philosophical Questions of Mathematics Fundamentals |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br><b>per week: 2 per level/semester: 26</b><br><b>Form of the course:</b> on-site learning |                                                                             |
| <b>Number of credits:</b> 8                                                                                                                                                                 |                                                                             |
| <b>Recommended semester:</b> 4.                                                                                                                                                             |                                                                             |
| <b>Educational level:</b> III.                                                                                                                                                              |                                                                             |
| <b>Prerequisites:</b>                                                                                                                                                                       |                                                                             |
| <b>Antirequisites:</b> FMFI.KAGDM/3-MVM-033/10                                                                                                                                              |                                                                             |
| <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                                                                                                                     |                                                                             |
| ABS                                                                                                                                                                                         | NEABS                                                                       |
| 100,0                                                                                                                                                                                       | 0,0                                                                         |
| <b>Lecturers:</b> prof. RNDr. Ladislav Kvasz, Dr., prof. RNDr. Pavol Zlatoš, PhD.                                                                                                           |                                                                             |
| <b>Last change:</b> 17.03.2018                                                                                                                                                              |                                                                             |
| <b>Approved by:</b>                                                                                                                                                                         |                                                                             |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                           |                                                           |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                                           |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                           |                                                           |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-403/10                                                                                                                          | <b>Course title:</b><br>Presentation at a Home Conference |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                                           |
| <b>Number of credits:</b> 10                                                                                                                                              |                                                           |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                      |                                                           |
| <b>Educational level:</b> III.                                                                                                                                            |                                                           |
| <b>Prerequisites:</b>                                                                                                                                                     |                                                           |
| <b>Course requirements:</b>                                                                                                                                               |                                                           |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                                           |
| <b>Class syllabus:</b>                                                                                                                                                    |                                                           |
| <b>Recommended literature:</b>                                                                                                                                            |                                                           |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                                           |
| <b>Notes:</b>                                                                                                                                                             |                                                           |
| <b>Past grade distribution</b><br>Total number of evaluated students: 4                                                                                                   |                                                           |
| ABS                                                                                                                                                                       | NEABS                                                     |
| 100,0                                                                                                                                                                     | 0,0                                                       |
| <b>Lecturers:</b>                                                                                                                                                         |                                                           |
| <b>Last change:</b> 02.06.2015                                                                                                                                            |                                                           |
| <b>Approved by:</b>                                                                                                                                                       |                                                           |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                           |                                                                                            |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                                                                            |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                           |                                                                                            |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-402/10                                                                                                                          | <b>Course title:</b><br>Presentation at a Home Conference with International Participation |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                                                                            |
| <b>Number of credits:</b> 15                                                                                                                                              |                                                                                            |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                      |                                                                                            |
| <b>Educational level:</b> III.                                                                                                                                            |                                                                                            |
| <b>Prerequisites:</b>                                                                                                                                                     |                                                                                            |
| <b>Course requirements:</b>                                                                                                                                               |                                                                                            |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                                                                            |
| <b>Class syllabus:</b>                                                                                                                                                    |                                                                                            |
| <b>Recommended literature:</b>                                                                                                                                            |                                                                                            |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                                                                            |
| <b>Notes:</b>                                                                                                                                                             |                                                                                            |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                   |                                                                                            |
| ABS                                                                                                                                                                       | NEABS                                                                                      |
| 100,0                                                                                                                                                                     | 0,0                                                                                        |
| <b>Lecturers:</b>                                                                                                                                                         |                                                                                            |
| <b>Last change:</b> 02.06.2015                                                                                                                                            |                                                                                            |
| <b>Approved by:</b>                                                                                                                                                       |                                                                                            |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                           |                                                                     |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                                                     |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                           |                                                                     |
| <b>Course ID:</b><br>FMFI.KDMFI/3-MVM-401/10                                                                                                                              | <b>Course title:</b><br>Presentation at an International Conference |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                                                     |
| <b>Number of credits:</b> 20                                                                                                                                              |                                                                     |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                      |                                                                     |
| <b>Educational level:</b> III.                                                                                                                                            |                                                                     |
| <b>Prerequisites:</b>                                                                                                                                                     |                                                                     |
| <b>Course requirements:</b>                                                                                                                                               |                                                                     |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                                                     |
| <b>Class syllabus:</b>                                                                                                                                                    |                                                                     |
| <b>Recommended literature:</b>                                                                                                                                            |                                                                     |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                                                     |
| <b>Notes:</b>                                                                                                                                                             |                                                                     |
| <b>Past grade distribution</b><br>Total number of evaluated students: 3                                                                                                   |                                                                     |
| ABS                                                                                                                                                                       | NEABS                                                               |
| 100,0                                                                                                                                                                     | 0,0                                                                 |
| <b>Lecturers:</b>                                                                                                                                                         |                                                                     |
| <b>Last change:</b> 02.06.2015                                                                                                                                            |                                                                     |
| <b>Approved by:</b>                                                                                                                                                       |                                                                     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                    |                                                            |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                  |                                                            |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                    |                                                            |
| <b>Course ID:</b><br>FMFI.KAMŠ/3-MVM-031/10                                                                                                                                                        | <b>Course title:</b><br>Probability Measure and Statistics |
| <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> 26<br><b>Form of the course:</b> on-site learning |                                                            |
| <b>Number of credits:</b> 8                                                                                                                                                                        |                                                            |
| <b>Recommended semester:</b> 1.                                                                                                                                                                    |                                                            |
| <b>Educational level:</b> III.                                                                                                                                                                     |                                                            |
| <b>Prerequisites:</b>                                                                                                                                                                              |                                                            |
| <b>Course requirements:</b>                                                                                                                                                                        |                                                            |
| <b>Learning outcomes:</b>                                                                                                                                                                          |                                                            |
| <b>Class syllabus:</b>                                                                                                                                                                             |                                                            |
| <b>Recommended literature:</b>                                                                                                                                                                     |                                                            |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                 |                                                            |
| <b>Notes:</b>                                                                                                                                                                                      |                                                            |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                            |                                                            |
| ABS                                                                                                                                                                                                | NEABS                                                      |
| 0,0                                                                                                                                                                                                | 0,0                                                        |
| <b>Lecturers:</b> doc. RNDr. Katarína Janková, CSc.                                                                                                                                                |                                                            |
| <b>Last change:</b> 02.06.2015                                                                                                                                                                     |                                                            |
| <b>Approved by:</b>                                                                                                                                                                                |                                                            |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                        |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                        |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                        |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-305/10                                                                                                                               | <b>Course title:</b><br>Reviewed Foreign Papers Volume |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning |                                                        |
| <b>Number of credits:</b> 30                                                                                                                                                   |                                                        |
| <b>Recommended semester:</b> 7., 8..                                                                                                                                           |                                                        |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                        |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                        |
| <b>Course requirements:</b>                                                                                                                                                    |                                                        |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                        |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                        |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                        |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                        |
| <b>Notes:</b>                                                                                                                                                                  |                                                        |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                        |                                                        |
| ABS                                                                                                                                                                            | NEABS                                                  |
| 100,0                                                                                                                                                                          | 0,0                                                    |
| <b>Lecturers:</b>                                                                                                                                                              |                                                        |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                        |
| <b>Approved by:</b>                                                                                                                                                            |                                                        |



## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                |                                                     |
| <b>University:</b> Comenius University Bratislava                                                                                                                              |                                                     |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                |                                                     |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-306/10                                                                                                                               | <b>Course title:</b><br>Reviewed Home Papers Volume |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br><b>per week: per level/semester:</b><br><b>Form of the course:</b> on-site learning |                                                     |
| <b>Number of credits:</b> 15                                                                                                                                                   |                                                     |
| <b>Recommended semester:</b> 3., 4..                                                                                                                                           |                                                     |
| <b>Educational level:</b> III.                                                                                                                                                 |                                                     |
| <b>Prerequisites:</b>                                                                                                                                                          |                                                     |
| <b>Course requirements:</b>                                                                                                                                                    |                                                     |
| <b>Learning outcomes:</b>                                                                                                                                                      |                                                     |
| <b>Class syllabus:</b>                                                                                                                                                         |                                                     |
| <b>Recommended literature:</b>                                                                                                                                                 |                                                     |
| <b>Languages necessary to complete the course:</b>                                                                                                                             |                                                     |
| <b>Notes:</b>                                                                                                                                                                  |                                                     |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                        |                                                     |
| ABS                                                                                                                                                                            | NEABS                                               |
| 0,0                                                                                                                                                                            | 0,0                                                 |
| <b>Lecturers:</b>                                                                                                                                                              |                                                     |
| <b>Last change:</b> 02.06.2015                                                                                                                                                 |                                                     |
| <b>Approved by:</b>                                                                                                                                                            |                                                     |

## COURSE DESCRIPTION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                                    |                                                                              |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                  |                                                                              |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                    |                                                                              |
| <b>Course ID:</b><br>FMFI.KMANM/3-MVM-045/15                                                                                                                                                       | <b>Course title:</b><br>School Mathematics as Viewed by Advanced Mathematics |
| <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> 26<br><b>Form of the course:</b> on-site learning |                                                                              |
| <b>Number of credits:</b> 8                                                                                                                                                                        |                                                                              |
| <b>Recommended semester:</b> 1.                                                                                                                                                                    |                                                                              |
| <b>Educational level:</b> III.                                                                                                                                                                     |                                                                              |
| <b>Prerequisites:</b>                                                                                                                                                                              |                                                                              |
| <b>Antirequisites:</b> FMFI.KAGDM/3-MVM-045/10                                                                                                                                                     |                                                                              |
| <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                                                                                                                            |                                                                              |
| ABS                                                                                                                                                                                                | NEABS                                                                        |
| 0,0                                                                                                                                                                                                | 0,0                                                                          |
| <b>Lecturers:</b> doc. RNDr. Zbyněk Kubáček, CSc.                                                                                                                                                  |                                                                              |
| <b>Last change:</b> 02.06.2015                                                                                                                                                                     |                                                                              |
| <b>Approved by:</b>                                                                                                                                                                                |                                                                              |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2021/2022                                                                                                                                                                    |                                                  |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                  |                                                  |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                    |                                                  |
| <b>Course ID:</b><br>FMFI.KAG/3-MVM-044/10                                                                                                                                                         | <b>Course title:</b><br>Selected Topics in Logic |
| <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> 26<br><b>Form of the course:</b> on-site learning |                                                  |
| <b>Number of credits:</b> 8                                                                                                                                                                        |                                                  |
| <b>Recommended semester:</b> 1., 2..                                                                                                                                                               |                                                  |
| <b>Educational level:</b> III.                                                                                                                                                                     |                                                  |
| <b>Prerequisites:</b>                                                                                                                                                                              |                                                  |
| <b>Course requirements:</b>                                                                                                                                                                        |                                                  |
| <b>Learning outcomes:</b>                                                                                                                                                                          |                                                  |
| <b>Class syllabus:</b>                                                                                                                                                                             |                                                  |
| <b>Recommended literature:</b>                                                                                                                                                                     |                                                  |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                 |                                                  |
| <b>Notes:</b>                                                                                                                                                                                      |                                                  |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                                            |                                                  |
| ABS                                                                                                                                                                                                | NEABS                                            |
| 0,0                                                                                                                                                                                                | 0,0                                              |
| <b>Lecturers:</b> prof. RNDr. Pavol Zlatoš, PhD.                                                                                                                                                   |                                                  |
| <b>Last change:</b> 02.06.2015                                                                                                                                                                     |                                                  |
| <b>Approved by:</b>                                                                                                                                                                                |                                                  |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                      |                                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                                    |                                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                      |                                                                             |
| <b>Course ID:</b><br>FMFI.KAG+KMANM/3-MVM-038/10                                                                                                                                     | <b>Course title:</b><br>Specialized Seminar in Didactics of Mathematics (1) |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br>per week: 2 per level/semester: 26<br><b>Form of the course:</b> on-site learning |                                                                             |
| <b>Number of credits:</b> 8                                                                                                                                                          |                                                                             |
| <b>Recommended semester:</b> 1., 2..                                                                                                                                                 |                                                                             |
| <b>Educational level:</b> III.                                                                                                                                                       |                                                                             |
| <b>Prerequisites:</b>                                                                                                                                                                |                                                                             |
| <b>Course requirements:</b>                                                                                                                                                          |                                                                             |
| <b>Learning outcomes:</b>                                                                                                                                                            |                                                                             |
| <b>Class syllabus:</b>                                                                                                                                                               |                                                                             |
| <b>Recommended literature:</b>                                                                                                                                                       |                                                                             |
| <b>Languages necessary to complete the course:</b>                                                                                                                                   |                                                                             |
| <b>Notes:</b>                                                                                                                                                                        |                                                                             |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                              |                                                                             |
| ABS                                                                                                                                                                                  | NEABS                                                                       |
| 0,0                                                                                                                                                                                  | 0,0                                                                         |
| <b>Lecturers:</b> doc. RNDr. Zbyněk Kubáček, CSc.                                                                                                                                    |                                                                             |
| <b>Last change:</b> 02.06.2015                                                                                                                                                       |                                                                             |
| <b>Approved by:</b>                                                                                                                                                                  |                                                                             |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2021/2022                                                                                                                                                      |                                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                                    |                                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                      |                                                                             |
| <b>Course ID:</b><br>FMFI.KAG+KMANM/3-MVM-049/10                                                                                                                                     | <b>Course title:</b><br>Specialized Seminar in Didactics of Mathematics (2) |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br>per week: 2 per level/semester: 26<br><b>Form of the course:</b> on-site learning |                                                                             |
| <b>Number of credits:</b> 8                                                                                                                                                          |                                                                             |
| <b>Recommended semester:</b> 3., 4..                                                                                                                                                 |                                                                             |
| <b>Educational level:</b> III.                                                                                                                                                       |                                                                             |
| <b>Prerequisites:</b>                                                                                                                                                                |                                                                             |
| <b>Course requirements:</b>                                                                                                                                                          |                                                                             |
| <b>Learning outcomes:</b>                                                                                                                                                            |                                                                             |
| <b>Class syllabus:</b>                                                                                                                                                               |                                                                             |
| <b>Recommended literature:</b>                                                                                                                                                       |                                                                             |
| <b>Languages necessary to complete the course:</b>                                                                                                                                   |                                                                             |
| <b>Notes:</b>                                                                                                                                                                        |                                                                             |
| <b>Past grade distribution</b><br>Total number of evaluated students: 2                                                                                                              |                                                                             |
| ABS                                                                                                                                                                                  | NEABS                                                                       |
| 100,0                                                                                                                                                                                | 0,0                                                                         |
| <b>Lecturers:</b> doc. RNDr. Zbyněk Kubáček, CSc.                                                                                                                                    |                                                                             |
| <b>Last change:</b> 02.06.2015                                                                                                                                                       |                                                                             |
| <b>Approved by:</b>                                                                                                                                                                  |                                                                             |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2021/2022                                                                                                                                                                    |                                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                                                  |                                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                                    |                                                                             |
| <b>Course ID:</b><br>FMFI.KAG+KMANM/3-MVM-050/10                                                                                                                                                   | <b>Course title:</b><br>Specialized Seminar in Didactics of Mathematics (3) |
| <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> 26<br><b>Form of the course:</b> on-site learning |                                                                             |
| <b>Number of credits:</b> 8                                                                                                                                                                        |                                                                             |
| <b>Recommended semester:</b> 5., 6..                                                                                                                                                               |                                                                             |
| <b>Educational level:</b> III.                                                                                                                                                                     |                                                                             |
| <b>Prerequisites:</b>                                                                                                                                                                              |                                                                             |
| <b>Course requirements:</b>                                                                                                                                                                        |                                                                             |
| <b>Learning outcomes:</b>                                                                                                                                                                          |                                                                             |
| <b>Class syllabus:</b>                                                                                                                                                                             |                                                                             |
| <b>Recommended literature:</b>                                                                                                                                                                     |                                                                             |
| <b>Languages necessary to complete the course:</b>                                                                                                                                                 |                                                                             |
| <b>Notes:</b>                                                                                                                                                                                      |                                                                             |
| <b>Past grade distribution</b><br>Total number of evaluated students: 1                                                                                                                            |                                                                             |
| ABS                                                                                                                                                                                                | NEABS                                                                       |
| 100,0                                                                                                                                                                                              | 0,0                                                                         |
| <b>Lecturers:</b> doc. RNDr. Zbyněk Kubáček, CSc.                                                                                                                                                  |                                                                             |
| <b>Last change:</b> 02.06.2015                                                                                                                                                                     |                                                                             |
| <b>Approved by:</b>                                                                                                                                                                                |                                                                             |

## COURSE DESCRIPTION

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| <b>Academic year:</b> 2021/2022                                                                                                                                                      |                                                                             |
| <b>University:</b> Comenius University Bratislava                                                                                                                                    |                                                                             |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                      |                                                                             |
| <b>Course ID:</b><br>FMFI.KAG+KMANM/3-MVM-051/12                                                                                                                                     | <b>Course title:</b><br>Specialized Seminar in Didactics of Mathematics (4) |
| <b>Educational activities:</b><br><b>Type of activities:</b> seminar<br><b>Number of hours:</b><br>per week: 2 per level/semester: 26<br><b>Form of the course:</b> on-site learning |                                                                             |
| <b>Number of credits:</b> 8                                                                                                                                                          |                                                                             |
| <b>Recommended semester:</b> 7., 8..                                                                                                                                                 |                                                                             |
| <b>Educational level:</b> III.                                                                                                                                                       |                                                                             |
| <b>Prerequisites:</b>                                                                                                                                                                |                                                                             |
| <b>Course requirements:</b>                                                                                                                                                          |                                                                             |
| <b>Learning outcomes:</b>                                                                                                                                                            |                                                                             |
| <b>Class syllabus:</b>                                                                                                                                                               |                                                                             |
| <b>Recommended literature:</b>                                                                                                                                                       |                                                                             |
| <b>Languages necessary to complete the course:</b>                                                                                                                                   |                                                                             |
| <b>Notes:</b>                                                                                                                                                                        |                                                                             |
| <b>Past grade distribution</b><br>Total number of evaluated students: 3                                                                                                              |                                                                             |
| ABS                                                                                                                                                                                  | NEABS                                                                       |
| 100,0                                                                                                                                                                                | 0,0                                                                         |
| <b>Lecturers:</b> doc. RNDr. Zbyněk Kubáček, CSc., prof. RNDr. Ján Filo, CSc.                                                                                                        |                                                                             |
| <b>Last change:</b> 06.02.2022                                                                                                                                                       |                                                                             |
| <b>Approved by:</b>                                                                                                                                                                  |                                                                             |

## COURSE DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                           |                                           |
| <b>University:</b> Comenius University Bratislava                                                                                                                         |                                           |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                           |                                           |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-807/10                                                                                                                          | <b>Course title:</b><br>Study Stay Abroad |
| <b>Educational activities:</b><br><b>Type of activities:</b><br><b>Number of hours:</b><br>per week:   per level/semester:<br><b>Form of the course:</b> on-site learning |                                           |
| <b>Number of credits:</b> 3                                                                                                                                               |                                           |
| <b>Recommended semester:</b> 7., 8..                                                                                                                                      |                                           |
| <b>Educational level:</b> III.                                                                                                                                            |                                           |
| <b>Prerequisites:</b>                                                                                                                                                     |                                           |
| <b>Course requirements:</b>                                                                                                                                               |                                           |
| <b>Learning outcomes:</b>                                                                                                                                                 |                                           |
| <b>Class syllabus:</b>                                                                                                                                                    |                                           |
| <b>Recommended literature:</b>                                                                                                                                            |                                           |
| <b>Languages necessary to complete the course:</b>                                                                                                                        |                                           |
| <b>Notes:</b>                                                                                                                                                             |                                           |
| <b>Past grade distribution</b><br>Total number of evaluated students: 0                                                                                                   |                                           |
| ABS                                                                                                                                                                       | NEABS                                     |
| 0,0                                                                                                                                                                       | 0,0                                       |
| <b>Lecturers:</b>                                                                                                                                                         |                                           |
| <b>Last change:</b> 02.06.2015                                                                                                                                            |                                           |
| <b>Approved by:</b>                                                                                                                                                       |                                           |



## COURSE DESCRIPTION

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| <b>Academic year:</b> 2021/2022                                                                                                                                                      |                                                            |
| <b>University:</b> Comenius University Bratislava                                                                                                                                    |                                                            |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                      |                                                            |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-801/10                                                                                                                                     | <b>Course title:</b><br>Supervising and Demonstrating Work |
| <b>Educational activities:</b><br><b>Type of activities:</b> other<br><b>Number of hours:</b><br>per week: 2   per level/semester: 26<br><b>Form of the course:</b> on-site learning |                                                            |
| <b>Number of credits:</b> 5                                                                                                                                                          |                                                            |
| <b>Recommended semester:</b>                                                                                                                                                         |                                                            |
| <b>Educational level:</b> III.                                                                                                                                                       |                                                            |
| <b>Prerequisites:</b>                                                                                                                                                                |                                                            |
| <b>Course requirements:</b>                                                                                                                                                          |                                                            |
| <b>Learning outcomes:</b>                                                                                                                                                            |                                                            |
| <b>Class syllabus:</b>                                                                                                                                                               |                                                            |
| <b>Recommended literature:</b>                                                                                                                                                       |                                                            |
| <b>Languages necessary to complete the course:</b>                                                                                                                                   |                                                            |
| <b>Notes:</b>                                                                                                                                                                        |                                                            |
| <b>Past grade distribution</b><br>Total number of evaluated students: 6                                                                                                              |                                                            |
| ABS                                                                                                                                                                                  | NEABS                                                      |
| 100,0                                                                                                                                                                                | 0,0                                                        |
| <b>Lecturers:</b>                                                                                                                                                                    |                                                            |
| <b>Last change:</b> 02.06.2015                                                                                                                                                       |                                                            |
| <b>Approved by:</b>                                                                                                                                                                  |                                                            |

## COURSE DESCRIPTION

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Academic year:</b> 2021/2022                                                                                                                                                      |                                                            |
| <b>University:</b> Comenius University Bratislava                                                                                                                                    |                                                            |
| <b>Faculty:</b> Faculty of Mathematics, Physics and Informatics                                                                                                                      |                                                            |
| <b>Course ID:</b><br>FMFI.KDMFI/3-<br>MVM-802/10                                                                                                                                     | <b>Course title:</b><br>Supervising and Demonstrating Work |
| <b>Educational activities:</b><br><b>Type of activities:</b> other<br><b>Number of hours:</b><br>per week: 2   per level/semester: 26<br><b>Form of the course:</b> on-site learning |                                                            |
| <b>Number of credits:</b> 5                                                                                                                                                          |                                                            |
| <b>Recommended semester:</b>                                                                                                                                                         |                                                            |
| <b>Educational level:</b> III.                                                                                                                                                       |                                                            |
| <b>Prerequisites:</b>                                                                                                                                                                |                                                            |
| <b>Course requirements:</b>                                                                                                                                                          |                                                            |
| <b>Learning outcomes:</b>                                                                                                                                                            |                                                            |
| <b>Class syllabus:</b>                                                                                                                                                               |                                                            |
| <b>Recommended literature:</b>                                                                                                                                                       |                                                            |
| <b>Languages necessary to complete the course:</b>                                                                                                                                   |                                                            |
| <b>Notes:</b>                                                                                                                                                                        |                                                            |
| <b>Past grade distribution</b><br>Total number of evaluated students: 4                                                                                                              |                                                            |
| ABS                                                                                                                                                                                  | NEABS                                                      |
| 100,0                                                                                                                                                                                | 0,0                                                        |
| <b>Lecturers:</b>                                                                                                                                                                    |                                                            |
| <b>Last change:</b> 02.06.2015                                                                                                                                                       |                                                            |
| <b>Approved by:</b>                                                                                                                                                                  |                                                            |