# Course descriptions

TABLE OF CONTENTS

1. 3-MAM-014/00 Asymptotic Methods....2
2. 3-MAM-005/00 Biomathematics....4
3. 3-MXX-101/15 Course of English for PhD Studies (1)....5
4. 3-MXX-102/15 Course of English for PhD Studies (1)....6
5. 3-MAM-806/15 Creation of Teaching Texts and Aids....7
6. 3-MAM-203/10 Department Seminar (1)....8
7. 3-MAM-204/10 Department Seminar (2)....9
8. 3-MAM-205/10 Department Seminar (3)....10
9. 3-MAM-206/10 Department Seminar (4)....11
10. 3-MMA-990/15 Dissertation Thesis Defense **(state exam)**....12
11. 3-MMA-022/15 Dynamical Systems and Bifurcation Theory....13
12. 3-MMA-021/15 Functional Differential Equations....14
13. 3-MAM-803/15 Guidance of a Final Thesis or of a Project for the Students´ Conference....15
14. 3-MAM-101/15 Individual Study of Science and Research Resources (1)....16
15. 3-MAM-104/15 Individual Study of Science and Research Resources (2)....17
16. 3-MAM-009/15 Models of Fluids Dynamics....18
17. 3-MMA-023/15 Nonlinear Functional Analysis....20
18. 3-MAM-701/15 Obtaing the Comenius University Grant for the Young....21
19. 3-MMA-028/15 Partial Differential Equations....22
20. 3-MMA-950/15 Passing Dissertation Examination **(state exam)**....23
21. 3-MAM-403/15 Presentation at a Homeland Conference or Department Seminar....24
22. 3-MAM-401/15 Presentation at an International Conference....25
23. 3-MAM-302/15 Publication in a Reviewed Periodical or Reviewed Almanac....26
24. 3-MAM-301/15 Publication in an A-category Periodical....27
25. 3-MAM-706/15 Response to a Publication....28
26. 3-MAM-704/15 Response to a WoK- or SCOPUS-registered Publication....29
27. 3-MAM-702/15 Scientific Project Co-researcher....30
28. 3-MMA-012/15 Semigroups and Evolution Equations....31
29. 3-MAM-802/15 Teaching Practice in the Summer Semester....32
30. 3-MAM-801/15 Teaching Practice in the Winter Semester....33
31. 3-MAM-808/15 Writing Final Thesis Assessment Protocol....34

## COURSE DESCRIPTION

**University:** Comenius University in Bratislava

**Faculty:** Faculty of Mathematics, Physics and Informatics

| **Course ID:** | **Course title:** |
|---|---|
| FMFI.KAMŠ/3-MAM-014/00 | Asymptotic Methods |

**Educational activities:**
**Type of activities:** lecture
**Number of hours:**
**per week:** 2 **per level/semester:** 28
**Form of the course:** on-site learning

**Number of credits:** 10

**Recommended semester:** 4.

**Educational level:** III.

**Prerequisites:**

**Course requirements:**
Continuous assessment: homework, exam during the semester
Exam: written and oral
Approximate grading scale: A 90%, B 80%, C 70%, D 60%, E 50%
Scale of assessment (preliminary/final): 30/70

**Learning outcomes:**
To give an overview of basic asymptotic methods for solving algebraic and differential problems in applied mathematics.

**Class syllabus:**
Algebraic equations: Iterative method. Algebraic equations: Expansion method. Singular perturbations and rescaling. Logarithmic Poincare's expansions. Convergence and asymptoticity. Asymptotic approximation of integrals. Watson's lemma. The steepest descent method. Regular perturbation problems in differential equations. Singular perturbation problems in differential equations. Method of matched asymptotic expansions. Multiple scale method. WKBJ method. Poincare-Lindstedt method. Radius of convergence and Domb-Sykes plots.

**Recommended literature:**
Perturbation Methods / E. J. Hinch. Cambridge, Cambridge University Press, 1991
Multiple Scale and Singular Perturbation Methods / Kevorkian, J., Cole, J. D. Springer, 1996

**Languages necessary to complete the course:**
English

**Notes:**

**Past grade distribution**
Total number of evaluated students: 4

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

**Lecturers:** doc. RNDr. Peter Guba, PhD.

**Last change:** 01.05.2017

| **Approved by:** |
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## COURSE DESCRIPTION

**University:** Comenius University in Bratislava

**Faculty:** Faculty of Mathematics, Physics and Informatics

| **Course ID:** | **Course title:** |
|---|---|
| FMFI.KAMŠ/3-MAM-005/00 | Biomathematics |

**Educational activities:**
**Type of activities:** lecture
**Number of hours:**
**per week:** 2 **per level/semester:** 28
**Form of the course:** on-site learning

**Number of credits:** 10

**Recommended semester:** 3.

**Educational level:** III.

**Prerequisites:**

**Course requirements:**

**Learning outcomes:**

**Class syllabus:**
Deterministic models, population dynamics with discrete and continuous time, biological oscillators, reaction-diffusion systems, epidemology models, bifurcations, chaos.

**Recommended literature:**
Murray, J. D.: Mathematical biology, Springer Berlin, 1989.

**Languages necessary to complete the course:**

**Notes:**

**Past grade distribution**
Total number of evaluated students: 1

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

**Lecturers:** doc. Mgr. Richard Kollár, PhD., prof. RNDr. Marek Fila, DrSc.

**Last change:** 02.06.2015

**Approved by:**

## COURSE DESCRIPTION

**University:** Comenius University in Bratislava

**Faculty:** Faculty of Mathematics, Physics and Informatics

| **Course ID:** | **Course title:** |
|---|---|
| FMFI.KJP/3-MXX-101/15 | Course of English for PhD Studies (1) |

**Educational activities:**
**Type of activities:** practicals
**Number of hours:**
**per week:** 2 **per level/semester:** 28
**Form of the course:** on-site learning, distance learning

**Number of credits:** 5

**Recommended semester:** 1.

**Educational level:** III.

**Prerequisites:**

**Course requirements:**

**Learning outcomes:**

**Class syllabus:**

**Recommended literature:**

**Languages necessary to complete the course:**

**Notes:**

**Past grade distribution**
Total number of evaluated students: 118

| A | ABS | B | C | D | E | FX | NEABS |
|---|---|---|---|---|---|---|---|
| 71,19 | 24,58 | 0,85 | 0,0 | 0,0 | 3,39 | 0,0 | 0,0 |

**Lecturers:** PhDr. Alena Zemanová

**Last change:** 22.02.2019

**Approved by:**

## COURSE DESCRIPTION

**University:** Comenius University in Bratislava

**Faculty:** Faculty of Mathematics, Physics and Informatics

| **Course ID:** | **Course title:** |
|---|---|
| FMFI.KJP/3-MXX-102/15 | Course of English for PhD Studies (1) |

**Educational activities:**
**Type of activities:** practicals
**Number of hours:**
**per week:** 2 **per level/semester:** 28
**Form of the course:** on-site learning, distance learning

**Number of credits:** 5

**Recommended semester:** 2.

**Educational level:** III.

**Prerequisites:** FMFI.KJP/3-MXX-101/15 - Course of English for PhD Studies (1)

**Course requirements:**

**Learning outcomes:**

**Class syllabus:**

**Recommended literature:**

**Languages necessary to complete the course:**

**Notes:**

**Past grade distribution**
Total number of evaluated students: 119

| A | ABS | B | C | D | E | FX | NEABS |
|---|---|---|---|---|---|---|---|
| 73,95 | 19,33 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 6,72 |

**Lecturers:** PhDr. Alena Zemanová

**Last change:** 22.02.2019

**Approved by:**

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-806/15 | **Course title:**<br>Creation of Teaching Texts and Aids |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 5 **per level/semester:** 70<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 1 | |

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-203/10 | **Course title:**<br>Department Seminar (1) |
| **Educational activities:**<br>**Type of activities:**<br>**Number of hours:**<br>**per week:** **per level/semester:**<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** 2. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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

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|---|
| **Lecturers:** prof. RNDr. Daniel Ševčovič, DrSc., prof. RNDr. Pavol Quittner, DrSc., doc. RNDr. Margaréta Halická, CSc., doc. Mgr. Radoslav Harman, PhD., prof. RNDr. Andrej Pázman, DrSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-204/10 | **Course title:**<br>Department Seminar (2) |
| **Educational activities:**<br>**Type of activities:**<br>**Number of hours:**<br>**per week: per level/semester:**<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** 4. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |

**Past grade distribution**
Total number of evaluated students: 1

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

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| **Lecturers:** prof. RNDr. Daniel Ševčovič, DrSc., doc. RNDr. Margaréta Halická, CSc., prof. RNDr. Pavol Quittner, DrSc., doc. Mgr. Radoslav Harman, PhD., prof. RNDr. Andrej Pázman, DrSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-205/10 | **Course title:**<br>Department Seminar (3) |
| **Educational activities:**<br>**Type of activities:**<br>**Number of hours:**<br>**per week: per level/semester:**<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** 6. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |
| ABS | NEABS |
| 0,0 | 0,0 |
| **Lecturers:** prof. RNDr. Daniel Ševčovič, DrSc., prof. RNDr. Pavol Quittner, DrSc., doc. RNDr. Margaréta Halická, CSc., doc. Mgr. Radoslav Harman, PhD., prof. RNDr. Andrej Pázman, DrSc. | |
| **Last change:** 02.06.2015 | |
| **Approved by:** | |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-206/10 | **Course title:**<br>Department Seminar (4) |
| **Educational activities:**<br>**Type of activities:**<br>**Number of hours:**<br>**per week:** **per level/semester:**<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** 8. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |

**Past grade distribution**
Total number of evaluated students: 0

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

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| **Lecturers:** prof. RNDr. Daniel Ševčovič, DrSc., doc. RNDr. Margaréta Halická, CSc., prof. RNDr. Pavol Quittner, DrSc., doc. Mgr. Radoslav Harman, PhD., prof. RNDr. Andrej Pázman, DrSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## STATE EXAM DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MMA-990/15 | **Course title:**<br>Dissertation Thesis Defense |
| **Number of credits:** 30 | |
| **Recommended semester:** 7., 8.. | |
| **Educational level:** III. | |
| **State exam syllabus:** | |
| **Last change:** 02.06.2015 | |
| **Approved by:** | |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KMANM/3-MMA-022/15 | **Course title:**<br>Dynamical Systems and Bifurcation Theory |
| **Educational activities:**<br>**Type of activities:** lecture<br>**Number of hours:**<br>**per week:** 2 **per level/semester:** 28<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 2. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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

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| **Lecturers:** prof. RNDr. Michal Fečkan, DrSc., prof. RNDr. Milan Medveď, DrSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KMANM/3-MMA-021/15 | **Course title:**<br>Functional Differential Equations |
| **Educational activities:**<br>**Type of activities:** lecture<br>**Number of hours:**<br>**per week:** 2 **per level/semester:** 28<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 3. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |

**Past grade distribution**
Total number of evaluated students: 1

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

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| **Lecturers:** prof. RNDr. Jaroslav Jaroš, CSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-803/15 | **Course title:**<br>Guidance of a Final Thesis or of a Project for the Students´ Conference |
| **Educational activities:**<br>**Type of activities:** other<br>**Number of hours:**<br>**per week:** 5 **per level/semester:** 70<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-101/15 | **Course title:**<br>Individual Study of Science and Research Resources (1) |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 10 **per level/semester:** 140<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 2. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 2 | |

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-104/15 | **Course title:**<br>Individual Study of Science and Research Resources (2) |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 10 **per level/semester:** 140<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 4. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 2 | |

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

| |
|---|
| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

**University:** Comenius University in Bratislava

**Faculty:** Faculty of Mathematics, Physics and Informatics

| **Course ID:** | **Course title:** |
|---|---|
| FMFI.KAMŠ/3-MAM-009/15 | Models of Fluids Dynamics |

**Educational activities:**
**Type of activities:** lecture
**Number of hours:**
**per week:** 2 **per level/semester:** 28
**Form of the course:** on-site learning

**Number of credits:** 10

**Recommended semester:** 3.

**Educational level:** III.

**Prerequisites:**

**Course requirements:**
Continuous assessment: individual work, project preparation
Exam: Exam
Approximate rating: A 90%, B 80%, C 70%, D 60%, E 50%
Scale of assessment (preliminary/final): 30/70

**Learning outcomes:**
Teach the students to derive and analyse basic equations describing fluid flow.

**Class syllabus:**
Equations of motion for ideal fluids. Vorticity. Irrotational flow. Vorticity equation.
Equations of motion for viscous fluids. Examples of simple viscous flows. Flows with circular streamlines.
Convection and diffusion of vorticity. Gravity waves. Dispersion and group velocity. Surface tension effects and capillary waves.
Internal gravity waves. Waves with finite amplitude. Hydraulic shocks and solitary waves. Kelvin--Helmholtz instability. Thermal convection. Centrifugal instability. Theorem on the stability of shear flow. General theorem on the stability of viscous flow. Uniqueness of steady viscous flow. Transition to turbulence.

**Recommended literature:**
Elementary Fluid Dynamics / D. J. Acheson. Oxford: Clarendon Press, 1990
An Introduction to Fluid Dynamics / G. K. Batchelor. Cambridge University Press, 2000

**Languages necessary to complete the course:**
English

**Notes:**

**Past grade distribution**
Total number of evaluated students: 1

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

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| **Lecturers:** doc. RNDr. Peter Guba, PhD. |
| **Last change:** 01.05.2017 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KMANM/3-MMA-023/15 | **Course title:**<br>Nonlinear Functional Analysis |
| **Educational activities:**<br>**Type of activities:** lecture<br>**Number of hours:**<br>**per week:** 2 **per level/semester:** 28<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 1. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |

**Past grade distribution**
Total number of evaluated students: 0

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

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| **Lecturers:** prof. RNDr. Michal Fečkan, DrSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-701/15 | **Course title:**<br>Obtaing the Comenius University Grant for the Young |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 20 **per level/semester:** 280<br>**Form of the course:** on-site learning | |
| **Number of credits:** 20 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MMA-028/15 | **Course title:**<br>Partial Differential Equations |
| **Educational activities:**<br>**Type of activities:** lecture<br>**Number of hours:**<br>**per week:** 2 **per level/semester:** 28<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 2. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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

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| **Lecturers:** doc. RNDr. Eugen Viszus, CSc. |
| **Last change:** 10.03.2020 |
| **Approved by:** |

## STATE EXAM DESCRIPTION

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

## COURSE DESCRIPTION

| | |
|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-403/15 | **Course title:**<br>Presentation at a Homeland Conference or Department Seminar |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 5 **per level/semester:** 70<br>**Form of the course:** on-site learning | |
| **Number of credits:** 5 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-401/15 | **Course title:**<br>Presentation at an International Conference |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 20 **per level/semester:** 280<br>**Form of the course:** on-site learning | |
| **Number of credits:** 20 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 1 | |

| ABS | NEABS |
|---|---|
| 100,0 | 0,0 |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-302/15 | **Course title:**<br>Publication in a Reviewed Periodical or Reviewed Almanac |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 15 **per level/semester:** 210<br>**Form of the course:** on-site learning | |
| **Number of credits:** 15 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 1 | |

| ABS | NEABS |
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| 100,0 | 0,0 |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-301/15 | **Course title:**<br>Publication in an A-category Periodical |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 30 **per level/semester:** 420<br>**Form of the course:** on-site learning | |
| **Number of credits:** 30 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-706/15 | **Course title:**<br>Response to a Publication |
| **Educational activities:**<br>**Type of activities:** other<br>**Number of hours:**<br>**per week:** 3 **per level/semester:** 42<br>**Form of the course:** on-site learning | |
| **Number of credits:** 3 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

| ABS | NEABS |
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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-704/15 | **Course title:**<br>Response to a WoK- or SCOPUS-registered Publication |
| **Educational activities:**<br>**Type of activities:** other<br>**Number of hours:**<br>**per week:** 6 **per level/semester:** 84<br>**Form of the course:** on-site learning | |
| **Number of credits:** 6 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

| ABS | NEABS |
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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-702/15 | **Course title:**<br>Scientific Project Co-researcher |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 10 **per level/semester:** 140<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 1 | |

| ABS | NEABS |
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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MMA-012/15 | **Course title:**<br>Semigroups and Evolution Equations |
| **Educational activities:**<br>**Type of activities:** lecture<br>**Number of hours:**<br>**per week:** 2 **per level/semester:** 28<br>**Form of the course:** on-site learning | |
| **Number of credits:** 10 | |
| **Recommended semester:** 1. | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

| ABS | NEABS |
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| **Lecturers:** prof. RNDr. Pavol Quittner, DrSc. |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-802/15 | **Course title:**<br>Teaching Practice in the Summer Semester |
| **Educational activities:**<br>**Type of activities:** other<br>**Number of hours:**<br>**per week:** 8 **per level/semester:** 112<br>**Form of the course:** on-site learning | |
| **Number of credits:** 8 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-801/15 | **Course title:**<br>Teaching Practice in the Winter Semester |
| **Educational activities:**<br>**Type of activities:** other<br>**Number of hours:**<br>**per week:** 8 **per level/semester:** 112<br>**Form of the course:** on-site learning | |
| **Number of credits:** 8 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 13 | |

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| **Lecturers:** |
| **Last change:** 02.06.2015 |
| **Approved by:** |

## COURSE DESCRIPTION

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|---|---|
| **University:** Comenius University in Bratislava | |
| **Faculty:** Faculty of Mathematics, Physics and Informatics | |
| **Course ID:**<br>FMFI.KAMŠ/3-MAM-808/15 | **Course title:**<br>Writing Final Thesis Assessment Protocol |
| **Educational activities:**<br>**Type of activities:** independent work<br>**Number of hours:**<br>**per week:** 2 **per level/semester:** 28<br>**Form of the course:** on-site learning | |
| **Number of credits:** 2 | |
| **Recommended semester:** | |
| **Educational level:** III. | |
| **Prerequisites:** | |
| **Course requirements:** | |
| **Learning outcomes:** | |
| **Class syllabus:** | |
| **Recommended literature:** | |
| **Languages necessary to complete the course:** | |
| **Notes:** | |
| **Past grade distribution**<br>Total number of evaluated students: 0 | |
| ABS | NEABS |
| 0,0 | 0,0 |
| **Lecturers:** | |
| **Last change:** 02.06.2015 | |
| **Approved by:** | |