**DAUGAVPILS UNIVERSITY**

**DESCRIPTION OF THE STUDY COURSE**

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| Name of study course | English language for mathematicians 3 | |
| Code of study course (DUIS) | ValoD003 | |
| Scientific branch | Mathematics | |
| Course level | 7 | |
| Credits | 2 | |
| ECTS credits | 3 | |
| Total contact hours | 16 | |
| Number of lecture hours | - | |
| Number of seminar hours | 16 | |
| Hours of practical work | - | |
| Hours of laboratory work | - | |
| Number of hours of independent work | 64 | |
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| Course author(-s) | | |
| PhD, Senior Researcher Pēteris Daugulis (DU) Dr.math., Professor Felikss Sadirbajevs (DU) | | |
| Course docent(-s) | | |
| PhD, Senior Researcher Pēteris Daugulis (DU) Dr.math., Professor Felikss Sadirbajevs (DU) | | |
| Prior knowledge | | |
| Proficiency in English at least at B2 level, ValoD001, ValoD002 | | |
| Annotation of the study course | | |
| AIM OF THE COURSE:  The aim of the course is to prepare students for the independent creation, presentation of presentations of a mathematical nature and creating mathematical publications. The course teaches students the basics of making mathematical presentations and publications in English.  COURSE TASKS:   1. To learn the basics of mathematical presentation and publication in general and in the subfield of specialization (SS). 2. Create several presentations and publications in the student's SS. | | |
| Calendar plan of the study course | |
| Course structure: seminars (S) - 16 hrs, students' independent work (Pd) - 64 hrs.  1. Structure and procedures for mathematical presentations and publications (S2,Pd8).  2. Presentation No 1 (S3,Pd12).  3. Presentation No 2 (S3,Pd12).  4. Publication No 1 (S3,Pd12).  5. Publication No 2 (S3,Pd12).  6. Course Overview. (S2,Pd8). | |
| Study outcomes | |
| KNOWLEDGE:   1. Structure and procedures for scientific presentations and publications.   SKILLS:   1. Ability to make a mathematical presentation and publication in English.   COMPETENCES:   1. Competence in mathematical presentation and publication. | |
| Description of the organization and tasks of students' independent work | |
| Independent work making mathematical presentations and publications. | |
| Requirements for obtaining credits | |
| Form of assessment the learning of the study course - differentiated examination.  Requirements (intermediate examinations) for study course completion -  1. S1, regular attendance and active work in classes - 20%,  2. S2, preparation of 2 presentations and 2 publications - 80%,  Study methods and forms - seminars, consultations, independent works, presentations, discussion, argumentation.  CRITERIA FOR EVALUATING THE LEARNING OUTCOMES  The acquisition of the study course is evaluated by using 10-point scale according to the laws and regulations of the Republic of Latvia and in accordance with the "Regulations on studies at Daugavpils University" (approved at DU Senate meeting on 17.12.2018., Minutes No. 15), based on the following evaluation criteria of learning outcomes: the scope and quality of acquired knowledge, acquire skills and competencies in accordance with the planned study results.  EVALUATION OF LEARNING OUTCOMES   |  |  |  |  | | --- | --- | --- | --- | | Type of test | Learning outcomes | | | | 1. | 2. | 3. | | Mid-term test I | + | + | + | | Mid-term test II | + | + | + | | |
| Course content | |
| Topic 1. Structure and development of scientific presentations and publications (S2,Pd8).  Topic 2. Overview of the structure of scientific presentations and publications in English, how they are made. Creating mathematical presentations in several steps. Identifying and correcting errors and omissions. Creation of at least 2 mathematical presentations and 2 publications in the sub-discipline of specialization (S12, Pd48).  Topic 4. Course overview (S2, Pd8).  L – lecture  S – seminar  P – practical works  Pd – independent work | |
| Mandatory sources of information | |
| 1. N.J. N.J. Higham. Handbook of writing for the mathematical sciences, Philadelphia: Society for Industrial and Applied Mathematics, 1998. | |
| Additional sources of information | |
| 1. R.P. Agarwal, D. O'Regan. Ordinary and Partial Differential Equations: With Special Functions, Fourier Series, and Boundary Value Problems, Springer, 2009. 2. M.L .Bittinger, D.J. Ellenbogen. Calculus and Its Applications, Pearson, 2008T.S. Blyth. Basic Linear Algebra, Springer, 2006. 3. W.E. Boyce, R.C. DiPrima. Elementary Differential Equations and Boundary Value Problems, Wiley, 2005. | |
| Periodicals and other sources of information | |
| 1. http://dictionary.site.lv/ | |
| Notes | |
| Part A of the doctoral study program "Mathematics".  The course is taught in Latvian or English. | |