**DAUGAVPILS UNIVERSITY**

**DESCRIPTION OF THE STUDY COURSE**

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| Name of study course | English language for mathematicians 2 |
| Code of study course (DUIS) | ValoD002 |
| 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 | |
| Annotation of the study course | |
| AIM OF THE COURSE:  The aim of the course is to prepare students for independent study of specialized mathematical literature, translation from English and oral presentation of specialized mathematical texts in English. In the course, students learn the terms and language of their specialized subfield.  COURSE TASKS:   1. To acquire or repeat a minimum vocabulary of terms in the mathematics sub-field of specialisation. 2. To acquire or revise the basic skills of interpreting and translating texts in the sub-specialization (SS). | |

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| Calendar plan of the study course |
| Course structure: seminars (P) - 16 hrs, students' independent work (Pd) - 64 hrs.   1. Overview of SS terms, designations, language (S2,Pd8). 2. Text No 1 of SS textbook or monograph (S2,Pd8). 3. Text No 2 of SS textbook or monograph (S2,Pd8). 4. Text No 3 of SS textbook or monograph (S2,Pd8). 5. Text No 1 of SS publication (scientific article) (S2,Pd8). 6. Text No 2 of SS publication (S2,Pd8). 7. Text No 3 of SS publication (S2,Pd8). 8. Course overview. (S2,Pd8). |
| Study outcomes |
| KNOWLEDGE:   1. Glossary of key SS maths terms, expressions, verbs, phrases.   SKILLS:   1. Ability to translate SS texts orally and in writing.   COMPETENCES:   1. Competency in English versions of key SS terms (pronunciation and translation into Latvian). 2. Competence in translation and writing of SS English text. |
| Description of the organization and tasks of students' independent work |
| Independent work includes reading and translating mathematical texts and compiling a personal dictionary of terms. |

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| Requirements for obtaining credits |
| Form of assessment the learning of the study course - differentiated examination.  Requirements (intermediate examinations) for the completion of the study course –   1. S1, regular attendance and active participation - 10%, 2. S2, written translation of 8 texts into Latvian, at least 2000 characters per text – 40%, 3. S3, control work, written translation into Latvian, at least 2000 characters – 20%, 4. S4, exam paper, written translation into Latvian, at least 3000 characters – 30%.   Study methods and forms - seminars, consultations, independent work, 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. | 4. | | Mid-term test I | + | + | + | + | | Mid-term test II | + | + | + | + | | Mid-term test III | + | + | + | + | | Mid-term test IV | + | + | + | + | |
| Course content |
| Topic 1. SS terms (S2,Pd8)  Overview of the SS language: terms, designations, phrases.  Topic 2. SS textbook and monographic literature (S6,Pd24)  Reading and translating SS textbooks and monographs.  Topic 3. SS scientific publications (S6,Pd24)  Reading and translating recent SS scientific publications.  Topic 4. Course overview (S2,Pd8).  L – lecture  S – seminar  P – practical works  Pd – independent work |
| Mandatory sources of information |
| 1. 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, 2008. 3. W.E. Boyce, R.C. DiPrima. Elementary Differential Equations and Boundary Value Problems, Wiley, 2005. 4. C.H. Edwards, D. E. Penney. Differential Equations: Computing and Modeling. Pearson, 2008. |
| 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. |