Academic course description

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| BACHELOR ‘S PROGRAMME2nd YEAR OF STUDY, 2nd SEMESTER |

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| **Course title** | | **Foreign Language - English** |
| Course code | |  |
| Course type | | full attendance |
| Course level | | 1st cycle (bachelor’s degree) |
| Year of study, semester | | 2nd year of study, 2nd semester |
| Number of ECTS credits | | 4 |
| Number of hours per week | | 2 (1 lecture hours + 1 seminar hours) |
| Name of lecture holder | | Andi Sâsâiac, PhD |
| Name of seminar holder | | Andi Sâsâiac, PhD |
| Prerequisites | | Advanced level of English |
| A | **General and course-specific competences** | |
|  | **General competences:**   * Achievement of professional tasks efficiently and responsibly, in compliance with the field-specific deontology legislation, with qualified assistance. * Application of efficient work techniques in a multi-disciplinary team, on various hierarchical levels. Realization of a project/ team activity and identification of specific professional roles * Effective use of information sources and communication resources and assisted professional training, both in Romanian and in a foreign language. Elaboration, drafting and presentation in Romanian and/ or in a language of international circulation of a specialty work on a current topic in the field.   **Course-specific competences**:   * Proper use in professional communication of the terminology specific to Physics but also to related domains (especially Mathematics) * Critical assessment of a scientific communication, a paper/specialty report with a reduced degree of difficulty. * Drafting and presenting scientific reports in the field of Physics by using of new media technologies for communication. * Responsible performing independent work tasks and interdisciplinary approach of topics. * Making connections between knowledge of Physics and of other domains (Chemistry, Biology, Informatics, etc.). | |
| B | **Learning outcomes** | |
|  | After successfully finalizing the discipline, students will be able to :  • Prove understanding and proper use of lexical and grammatical structures, orally and in writing  • Read and prove, through comprehension exercises, the understanding of text and speech dealing both with general topics and Physics-related topics  • Demonstrate, through free speech and writing, the accumulation and consolidation of contemporary English vocabulary  • Present scientific facts and social, everyday life realities orally  • Adequately articulate, in writing, texts on complex, specialized topics  • Demonstrate the capacity of using terminology from the field of Physics properly | |
| C | **Lecture content** | |
|  | * Quantum Theory * Listening, reading comprehension * Reflections on pure and applied sciences; * Economy explained through Physics: * ‘Thermodynamic Roots of Economics’ – short text reading comprehension * Scientific terminology as a rhetorical device: * Physics and pop culture * Scientific terminology as a rhetorical device: * Physics and fiction * Scientific terminology as a rhetorical device: * Physics and poetry * Physics Questions * Revision | |
| D | **Recommended reading for lectures** | |
|  | 1. Huyen, Ho, English for Students of Physics vol.2, Hanoi, 2007 2. Huxley, Aldous, Brave New World, Harper Perenial, 2006 3. Simon Singh, “Katie Melua’s bad science”, The Guardian, 30.09.2005, retrieved from https://www.theguardian.com/education/2005/sep/30/highereducation.uk 4. Kathryn Jepsen, “Physics love poems”, Symmetry Magazine – dimensions of particle physics, 14.02.2017, retrieved from https://www.symmetrymagazine.org/article/physics-love-poems 5. Herman Daly, ‘Thermodynamic Roots of Economics’, CASSE, 7.11.2010, retrieved from https://steadystate.org/thermodynamic-roots/ 6. Dănilă, Viorica, Engleza pentru ingineri și tehnicieni, Editura tehnică, București, 1967 | |
| E | **Seminar content** | |
|  | * Quantum theory * Comprehension exercises - writing * Is engineering a science? * Speaking and writing on given topic * Physics terminology in popular songs * Listening, speaking, creative writing * Scientific terminology in works of fiction. * Reading, speaking, creative writing * Physics terminology in haiku and other poems * Reading, speaking, creative writing * Physics questions * Fun Physics – trivia quizzes * Assessment | |
| F | **Recommended reading for seminars** | |
|  | 1. Huyen, Ho, English for Students of Physics vol.2, Hanoi, 2007  2. Huxley, Aldous, Brave New World, Harper Perenial, 2006  3. Simon Singh, “Katie Melua’s bad science”, The Guardian, 30.09.2005, retrieved from https://www.theguardian.com/education/2005/sep/30/highereducation.uk  4. Kathryn Jepsen, “Physics love poems”, Symmetry Magazine – dimensions of particle physics, 14.02.2017, retrieved from https://www.symmetrymagazine.org/article/physics-love-poems  5. Dănilă, Viorica, Engleza pentru ingineri și tehnicieni, Editura tehnică, București, 1967  6. Gavrilas, Mariana, Ludmila Andreescu, Dictionar de fizică englez-român, Ed. tehnică, 1981 | |
| G | **Education style** | |
| learning and teaching methods | | Presentation. Interactive course |
| assessment methods | | * Assessment during in-class activities * Oral presentation |
| Language of instruction | | English |