

BACHELOR 'S PROGRAMME  
2<sup>nd</sup> YEAR OF STUDY, 2<sup>nd</sup> SEMESTER

COURSE TITLE	<b>FOREIGN LANGUAGE - ENGLISH</b>
COURSE CODE	
COURSE TYPE	full attendance
COURSE LEVEL	1 <sup>st</sup> cycle (bachelor's degree)
YEAR OF STUDY, SEMESTER	2 <sup>nd</sup> year of study, 2 <sup>nd</sup> semester
NUMBER OF ECTS CREDITS	4
NUMBER OF HOURS PER WEEK	2 (1 lecture hours + 1 seminar hours)
NAME OF LECTURE HOLDER	Andi Săsâiac, PhD
NAME OF SEMINAR HOLDER	Andi Săsâiac, PhD
PREREQUISITES	Intermediate level of English language
<b>A</b>	<b>GENERAL AND COURSE-SPECIFIC COMPETENCES</b>
	<p><b>General competences:</b></p> <ul style="list-style-type: none"> <li>→ Achievement of professional tasks efficiently and responsibly, in compliance with the field-specific deontology legislation, with qualified assistance.</li> <li>→ 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</li> <li>→ 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.</li> </ul> <p><b>Course-specific competences:</b></p> <ul style="list-style-type: none"> <li>→ Proper use in professional communication of the terminology specific to Physics but also to related domains (especially Mathematics)</li> <li>→ Critical assessment of a scientific communication, a paper/specialty report with a reduced degree of difficulty.</li> <li>→ Drafting and presenting scientific reports in the field of Physics by using of new media technologies for communication.</li> <li>→ Responsible performing independent work tasks and interdisciplinary approach of topics.</li> <li>→ Making connections between knowledge of Physics and of other domains (Chemistry, Biology, Informatics, etc.).</li> </ul>
<b>B</b>	<b>LEARNING OUTCOMES</b>
	<p>After successfully finalizing the discipline, students will be able to :</p> <ul style="list-style-type: none"> <li>→ Prove understanding and proper use of lexical and grammatical structures, orally and in writing</li> <li>→ Read and prove, through comprehension exercises, the understanding of text and speech dealing both with general topics and Physics-related topics</li> <li>→ Demonstrate, through free speech and writing, the accumulation and consolidation of contemporary English vocabulary</li> <li>→ Present scientific facts and social, everyday life realities orally</li> <li>→ Adequately articulate, in writing, texts on complex, specialized topics</li> <li>→ Demonstrate the capacity of using terminology from the field of Physics properly</li> </ul>
<b>C</b>	<b>LECTURE CONTENT</b>
	<p>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</p>
<b>D</b>	<b>RECOMMENDED READING FOR LECTURES</b>
	<ol style="list-style-type: none"> <li>1. Huyen, Ho, English for Students of Physics vol.2, Hanoi, 2007</li> <li>2. Huxley, Aldous, Brave New World, Harper Perennial, 2006</li> <li>3. Simon Singh, "Katie Melua's bad science", The Guardian, 30.09.2005, retrieved from <a href="https://www.theguardian.com/education/2005/sep/30/highereducation.uk">https://www.theguardian.com/education/2005/sep/30/highereducation.uk</a></li> </ol>

	<p>4. Kathryn Jepsen, "Physics love poems", Symmetry Magazine – dimensions of particle physics, 14.02.2017, retrieved from <a href="https://www.symmetrymagazine.org/article/physics-love-poems">https://www.symmetrymagazine.org/article/physics-love-poems</a></p> <p>5. Herman Daly, 'Thermodynamic Roots of Economics', CASSE, 7.11.2010, retrieved from <a href="https://steadystate.org/thermodynamic-roots/">https://steadystate.org/thermodynamic-roots/</a></p> <p>6. Dănilă, Viorica, Engleza pentru ingineri și tehnicieni, Editura tehnică, București, 1967</p>
<b>E</b>	<b>SEMINAR CONTENT</b>
	<p>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</p>
<b>F</b>	<b>RECOMMENDED READING FOR SEMINARS</b>
	<p>1. Huyen, Ho, English for Students of Physics vol.2, Hanoi, 2007  2. Huxley, Aldous, Brave New World, Harper Perennial, 2006  3. Simon Singh, "Katie Melua's bad science", The Guardian, 30.09.2005, retrieved from <a href="https://www.theguardian.com/education/2005/sep/30/highereducation.uk">https://www.theguardian.com/education/2005/sep/30/highereducation.uk</a>  4. Kathryn Jepsen, "Physics love poems", Symmetry Magazine – dimensions of particle physics, 14.02.2017, retrieved from <a href="https://www.symmetrymagazine.org/article/physics-love-poems">https://www.symmetrymagazine.org/article/physics-love-poems</a>  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</p>
<b>G</b>	<b>EDUCATION STYLE</b>
LEARNING AND TEACHING METHODS	Presentation. Interactive course
ASSESSMENT METHODS	<ul style="list-style-type: none"> <li>• Assessment during in-class activities</li> <li>• Oral presentation</li> </ul>
LANGUAGE OF INSTRUCTION	English