

<b>ID</b>	2104
<b>Curricular Unit</b>	Product Ergonomics
<b>Regent</b>	Raquel João Henriques Soares dos Santos
<b>Learning Outcomes</b>	<p>Understand the ergonomist contribution in a product development team.</p> <p>Identify the ergonomist intervention in the design phases of a product.</p> <p>Dominate the methodologies used in product design and its usability evaluation.</p>
<b>Syllabus</b>	<p>Product Ergonomics - Concepts and perspectives.</p> <p>The Ergonomics intervention in the global process of a product useful lifecycle.</p> <p>The Ergonomics intervention in each phase of product design process (project practicability, preliminary studies, detailed development studies, realization and execution, evaluation).</p> <p>Methodologies applied in product development (brainstorming, discovery matrix, evaluation matrix) and in product usability evaluation (heuristics, questionnaires, interviews, observation).</p> <p>Product design and interdisciplinary - Value analysis.</p>
<b>Evaluation</b>	<p>Theoretical-practical lessons, with support from media projection provided to the students.</p> <p>Realization of worksheets in groups to apply the methods taught.</p> <p>Two evaluation options:</p> <p>Continuous evaluation - 50% practical component (worksheets) + 50% theoretical component (written exam) with a minimum of 9.5 values on each component.</p> <p>Final evaluation - Final exam (50%) + practical work (50%).</p>
<b>Bibliography</b>	<p>Ameli, M. (2001) Product development approach, International Encyclopedia of Ergonomics and Human Factors, Taylor &amp; Francis, pp. 951-953.</p> <p>Buti, L. (2001) Ergonomic product design, International Encyclopedia of Ergonomics and Human Factors, Taylor &amp; Francis, pp. 906-910.</p> <p>Cushman, W. H. and D. J. Rosenberg (1991). Human Factors in Product Design, Elsevier.</p> <p>Green, W. S. &amp; P. W. Jordan (1999). Human Factors in Product Design, Taylor &amp; Francis.</p> <p>Jordan, P. (2001) Creating pleasurable products, International Encyclopedia of Ergonomics and Human Factors, Taylor &amp; Francis, pp. 1095-1097.</p> <p>Jordan, P. W. (1998). An introduction to usability, Taylor &amp; Francis.</p> <p>Nielsen, J. (1993). Usability engineering, Academic Press, Inc.</p> <p>Norman, D. A. (1998). The design of everyday things, MIT Press.</p> <p>Stanton, N. (1998). Human Factors in Consumer Products, Taylor &amp; Francis.</p>