

<b>ID</b>	2238
<b>Curricular Unit</b>	Planning and Project Management
<b>Regent</b>	Carlos Jorge Pinheiro Colaço
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Macroergonomics Knowledge of the underlying theoretical concepts.</li> <li>2. Application domain methods of analysis macroergonomics.</li> <li>3. Capacity cost-benefit of an Ergonomic Intervention.</li> </ol>
<b>Syllabus</b>	<ol style="list-style-type: none"> <li>1 - Macroergonomics.</li> <li>2 - Determining the cost-effectiveness of ergonomic intervention.</li> <li>3 - Structural Dimension of Work System.</li> <li>4 - Project Management Methodologies in Ergonomics.</li> <li>5 - Analysis and Design of Production Processes.</li> <li>6 - Analysis of Results / Benefits of Ergonomic Intervention.</li> <li>7 - Examples of application of the Cost-Benefit Analysis of Ergonomic Intervention in the Activity Sectors.</li> </ol>
<b>Evaluation</b>	<p>Continuous assessment :</p> <p>Theoretical-component - perform a writing frequency. The frequency must have a minimum grade of 9.5.</p> <p>-Practical component - perform a job, the minimum rating is 9.5. The note of this component is 30% of the final mark of the course.</p> <p>Final evaluation :</p> <ul style="list-style-type: none"> <li>• Conducting an examination consisting of a written, practical and oral test. To access the oral exam is required to obtain the written evidence and practice a minimum grade of 9.5 values.</li> </ul>

<b>Bibliography</b>	<p>D. Beevis and IM Slade, Ergonomics-costs and benefits, Applied Ergonomics. 34 (2005) (5), pp. 413-418.</p>
	<p>Hendrick, HW Humanizing re-engineering organizational effectiveness is true: the macroergonomic approach. In: Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting. (1995), p. 761-765.</p>
	<p>HW Hendrick, Good Ergonomics is Good Economics, The Human Factors and Ergonomics Society, Santa Monica, CA (1997).</p>
	<p>HW Hendrick and BM Kleiner, Macroergonomics: an Introduction to Work System Design, Human Factors and Ergonomics The Society, Santa Monica, CA (2001).</p>
	<p>HW Hendrick and BM Kleiner. Macroergonomics-Theories, Methods, and Applications. Mahmanh, NJ: Laurence Erlbaum Associates, Publishers (2002)</p>
	<p>BM Kleiner, Macroergonomics lessons learned from large scale change efforts industry, government, and academia. In: O. Brown and HW Hendrick, Editors, Human Factors in Organizational Design and Management , North-Holland, Amsterdam (1996), pp. 483-488.</p>