

ID	3802
Curricular Unit	Planning and Project Management
Regent	Carlos Jorge Pinheiro Colaço
Learning Outcomes	<ol style="list-style-type: none"> 1. Macroergonomics knowledge of the underlying theoretical concepts. 2. Application domain methods of analysis macroergonomics. 3. Cost-benefit capacity of an Ergonomic Intervention.
Syllabus	<ol style="list-style-type: none"> 1 - Macroergonomics. 2 - Determining the cost-effectiveness of ergonomic intervention. 3 - Structural Dimension of Work System. 4 - Project Management Methodologies in Ergonomics. 5 - Analysis and Design of Production Processes. 6 - Analysis of Results/Benefits of Ergonomic Intervention. 7 - Examples of application of the Cost-Benefits Analysis of Ergonomic Intervention in the Activity Sectors.
Evaluation	<p>Continuous assessment:</p> <p>Theoretical-component - perform a written test. The test has a minimum grade of 9.5.</p> <p>Practical component - perform a written work, with a minimum rating of 9.5.</p> <p>The note of this component is 30% of the final mark of the course.</p> <p>Final evaluation:</p> <p>Conducting an examination consisting of a written, practical and oral test.</p> <p>To access the oral exam the student is required to obtain the written evidence and practice a minimum grade of 9.5 values.</p>
Bibliography	<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>