



ID	2238
Curricular Unit	Planning and Project Management
Regent	Carlos Jorge Pinheiro Colaço
Learning Outcomes	1. Macroergonomics Knowledge of the underlying theoretical concepts.
	2. Application domain methods of analysis macroergonomics.
	3. Capacity cost-benefit of an Ergonomic Intervention.
Syllabus	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-Benefit Analysis of Ergonomic Intervention in the Activity Sectors.
Evaluation	Continuous assessment: Theoretical-component - perform a writing frequency. The frequency must have a minimum grade of 9.5Practical component - perform a job, the minimum rating is 9.5. The note of this component is 30% of the final mark of the course.
	Final evaluation: • 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.

D. Beevis and IM Slade, Ergonomics-costs and benefits, Applied Ergonomics. 34 (2005) (5), pp. 413-418.

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.

HW Hendrick, Good Ergonomics is Good Economics, The Human Factors and Ergonomics Society, Santa Monica, CA (1997).

Bibliography

HW Hendrick and BM Kleiner, Macroergonomics: an Introduction to Work System Design, Human Factors and Ergonomics The Society, Santa Monica, CA (2001).

HW Hendrick and BM Kleiner. Macroergonomics-Theories, Methods, and Applications. Mahmanh, NJ: Laurence Erlbaum Associates, Publishers (2002)

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.