



ID	701
Curricular Unit	Planning and Project Management
Regent	Carlos Jorge Pinheiro Colaço
Learning Outcomes	 Macroergonomics Knowledge of the underlying theoretical concepts. Application domain methods of analysis macroergonomics. Capacity cost-benefit of an Ergonomic Intervention.
Syllabus	 Macroergonomics. Determining the cost-effectiveness of ergonomic intervention. Structural Dimension of Work System. Project Management Methodologies in Ergonomics. Analysis and Design of Production Processes. Analysis of Results / Benefits of Ergonomic Intervention. 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 9.5. -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. 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.