



ID	2747
Curricular Unit	Design, Development and Evaluation of Multimedia Materials
Regent	Carlos Alberto Rosa Ferreira
Learning Outcomes	<ol> <li>Know and differentiate the concepts of ergonomics, usability and accessibility of information systems.</li> <li>Understand and explain the conceptual framework for the development of a user-centric multimedia system.</li> <li>Designing and implementing the usability heuristics to evaluate multimedia systems.</li> </ol>
Syllabus	Introduction to ergonomics usability and accessibility of information systems:  • The concepts of ergonomics, usability and accessibility in information systems.  • Integration of the concepts of accessibility and usability in organizations  • areas of research in information systems.  • Strategies for designing interfaces. User-Centered Design:  • The principles of ISO / DIS 14915-1.  • Heuristic usability of information systems (methodology, advantages and disadvantages)  • Examples of user-centric multimedia system developed at the Laboratory of Ergonomics of the FMH-UL.  Evaluation of a Multimedia System Based on Heuristics:  • Development and application of heuristics to evaluate usability of a multimedia system. Presentation of the results of developing an information system based on usability heuristics.
Evaluation	Development and defense of a practical work.

Stanton, N., Salmon, P., Walker, G., Baber, C., & Jenkins, D., (2005). Human Factors Methods: A Practical Guide for Engineering and Design. Ashgate Publishing Company. ISBN: 0754646610 Neville A. Stanton, Mark Young (1999). Guide to Methodology in Ergonomics: Designing for Human Use. CRC Publishing Company. W. Green, Patrick W. Jordan (1999). Human Factors in Product Design: Current Practice and Future Trends CRC Publishing Company Deborah J. (1992) Principles and guidelines in software user interface **Bibliography** design. Prentice Hall, New Jersey. Helander, M. (1992). Handbook of human computer interaction. North-Holland. Mayhew, Deborah J. (1992) Principles and guidelines in software user interface design. Englewood Cliffs, Prentice Hall PTR. Norman, Donald (1999). Invisible Computer: why good products can fail, the personal computer is so complex and information appliances are the solution. MIT Press, Cambridge.