ID	3403
Curricular Unit	Occupational Hygiene
Regent	Rui Miguel Bettencourt Melo
Learning Outcomes	- Identify and describe the fields of Occupational Hygiene; - Characterize the main physical, chemical and biological gifts workplaces agents; - Presenting instruments for monitoring environmental agents; - Assess the risk of exposure to physical, chemical and biological agents; - Define methods of controlling exposure to physical, chemical and biological agents.
Syllabus	1 Domains and principles of Occupational Hygiene 2 Chemicals 2.1 Basics of toxicology 2.2 Exposure Limit Values 2.3 Control measures 3 Physical agents 3.1 Vibrations 3.2 Noise 3.3 Ionizing radiation and non-ionizing 3.4 Lighting 3.5 Thermal Environment 4 Biological Agents 5 Legislation and regulations
Evaluation	Students must choose between 1) test (60%) and individual / group work (40%); and 2) final exam (100%).
Bibliography	· BOYCE, PR (2003) - Human Factors in Lighting, 2nd edition, Taylor & Francis, London. · Brauer RL (2006) Safety and Health for Engineers, 2nd edition, New Jersey: John Wiley & Sons. · GARDINER, K.; Harrington, JM (2005), Occupational Hygiene, 3rd edition, Oxford: Blackwell Publishing Ltd. · MIGUEL, ASSR (2012), Handbook of Health and Safety at Work, 12th Edition, Porto Editora, Porto. · MANSFIELD, NJ (2005) - Human response to vibration, CRC Press, Boca Raton. · PARSONS, KC (2003) - Human thermal environments, 2nd edition, Taylor & Francis, London. · PRITCHARD, DC (1999), Lighting, 6th edition, Harlow: Addison Wesley Longman Limited. · SOUTH, T. (2004), Managing Noise and Vibration at Work, Oxford: Butterworth-Heinemann.