



CURRICULAR

Código:	<b>Ergonomia</b>	Tipo de Unidade Curricular	
201340000		<b>Obrigatória</b>	
Ano Lectivo	Curso:	Ciclo Estudos:	
2013-2014	Licenciatura em Design	1° <input checked="" type="checkbox"/>	2° <input type="checkbox"/> 3° <input type="checkbox"/>
Créditos:	Idioma leccionado	Ano Curricular:	
3,5 ECTS	<input checked="" type="checkbox"/> Português <input type="checkbox"/> Inglês <input type="checkbox"/> Outro idioma	1° <input type="checkbox"/>	2° <input checked="" type="checkbox"/> 3° <input type="checkbox"/> 4° <input type="checkbox"/> 5° <input type="checkbox"/>
Área Científica:	<input type="checkbox"/> Arq. <sup>a</sup> <input type="checkbox"/> Urb. <sup>o</sup> <input checked="" type="checkbox"/> Design <input type="checkbox"/> DCV <input type="checkbox"/> CST <input type="checkbox"/> TAUD <input type="checkbox"/> HTAUD	Anual:	Semestral:
		<input type="checkbox"/>	1° <input checked="" type="checkbox"/> 2° <input type="checkbox"/>
Pré-requisitos:	Não existem pré-requisitos para esta unidade curricular	Trimestral:	
Sim <input type="checkbox"/> Não <input checked="" type="checkbox"/>		1° <input type="checkbox"/> 2° <input type="checkbox"/> 3° <input type="checkbox"/>	

Docente(s) Responsável(eis) pela U.C.

Teresa Michele Maia dos Santos		
Professor Auxiliar	Email: <a href="mailto:tmsantos@fa.utl.pt">tmsantos@fa.utl.pt</a>	URL: <a href="http://www.fautl.pt">www.fautl.pt</a>
Categoria:	Email:	URL:

Docente(s) da U.C.

Teresa Michele Maia dos Santos		
Professor Auxiliar	Email: <a href="mailto:tmsantos@fa.utl.pt">tmsantos@fa.utl.pt</a>	URL: <a href="http://www.fautl.pt">www.fautl.pt</a>
Categoria:	Email:	URL:
Categoria:	Email:	URL:
Categoria:	Email:	URL:

Horas de Contacto:

Teóricas:	Práticas:	Teórico-Práticas:	Laboratoriais:	Seminários:	Tutoriais:	Outras:	Total Horas de Contacto:
0,0 H	0,0 H	42 H	0,0 H	0,0 H	0,0 H	0,0 H	42,0 Horas

Estimativa de Horas Totais de Trabalho:

Inclui o total de horas de contacto mais as horas extra dedicadas à unidade curricular.	Horas Totais de Trabalho: 98,0 Horas
---	--------------------------------------

Objectivos (tópicos) limite 900 caracteres

<p>Esta disciplina tem como objetivos concretos:</p> <ol style="list-style-type: none"> <li>(1) Introduzir os alunos às preocupações da ergonomia;</li> <li>(2) Introduzir os alunos à inclusão da ergonomia nos projetos de design;</li> <li>(3) Fornecer meios de análise e de avaliação de produtos e/ ou sistemas sob o ponto de vista da ergonomia.</li> </ol>
---

Conteúdos Programáticos / Programa limite 1500 caracteres

<ol style="list-style-type: none"> <li>(1) Introdução à ergonomia: teoria e aplicações em design;</li> <li>(2) Antropometria em ergonomia;</li> <li>(3) Avaliação ergonómica de produtos e/ ou sistemas.</li> </ol>
---



CURRICULAR

As aulas serão suportadas por apresentações e leituras de artigos que desenvolvem particularmente cada tema e pela realização de um trabalho prático.

Competências a adquirir pelo discente (tópicos) limite 3000 caracteres

Fornecer aos alunos a informação necessária para que possam abordar os problemas do design que lhes são propostos tendo em conta as preocupações da Ergonomia, da qual fazem parte o indivíduo, o meio envolvente, as tarefas que têm de realizar, bem como, as suas limitações e expectativas.

Bibliografia Principal limite 3000 caracteres

- Clark, T. S. & Corlett, E. N. (1984). The Ergonomics of Workspaces and Machines: A Design Manual. London: Taylor & Francis.
- Croney, J. (1971). Anthropometrics for Designers. New York: Van Nostrand Reinhold.
- Damon, A. et al (1966). The Human Body in Equipment Design. Massachusetts: Harvard University Press.
- Dreyfuss, H. (1966). The Measure of Man: Human Factors in Design. New York: Whitney Library of Design.
- Dul, J. & Weerdmeester B. (2002). Ergonomics for Beginners. London: Taylor & Francis.
- Fraser, T.M. (1981). Design for Work and Use. London: Taylor & Francis.
- Hancock P. (1999). Human Performance and Ergonomics. San Diego: Academic Press
- Lida, I. (1990). Ergonomia - Projeto e Produção. S. Paulo: Editora Edgard Blucher Ltda.
- Karwowski, W. et al. (1990). Computer-Aided Ergonomics. New York: Taylor & Francis.
- Karwowski, W. & Marras W. (1999). The Occupational Ergonomics Handbook. New York: CRC Press.
- Mital, A. et al (1991). Workspace, Equipment and Tool Design. New York: Elsevier.
- Montmollin, M. (1995). A Ergonomia. Lisboa: traduzido e editado por Instituto Piaget; Éditions La Découverte 1990, Paris.
- Osborne, D. J. (1987). Ergonomics at Work. Chichester: Wiley.
- Panero, J. et al (1993). Las dimensiones Humanas en los Espacios Interiores. México: Ediciones G. Gili.
- Pheasant, S. (1986). Bodyspace: Anthropometry, Ergonomics and Design. London: Taylor & Francis.
- Pheasant, S. (1991). Ergonomics, Work and Health. Basingstoke: Macmillan.
- Rebelo, F. (2004). Ergonomia no Dia a Dia. Lisboa: Edições Sílabo.
- Salvendy, G. (1987). Handbook of Human Factors. New York: Wiley.
- Schmidtke, H. (1984). Ergonomic Data for Equipment Design. New York: Plenum Press.
- Singleton, W. T. (1962). Introduction to Ergonomics. Genebra: World Health Organization.
- Sobral, F. (1985). Curso de Antropometria. Lisboa: ISEF/UTL.
- Vredenburg K. et al (2002). User-Centered Design: an Integrated Approach. New Jersey: Prentice Hall.
- Woodson, W. E. (1981). Human Factors Design Handbook. New York: McGraw-Hill.

Bibliografia Complementar limite 3000 caracteres

- Chaffin, D. B. (1991). Occupational Biomechanics. New York: John Wiley.
- Farris, E. (1966). Art Students' Anatomy. New York: Dover Publications.
- Kumar S. (1999). Biomechanics in Ergonomics. London: Taylor & Francis.
- Marsh, R. (1970). Anatomy for Artists. New York: Dover Publications (reprint).
- Nigg B. & Herzog W. (1999). Biomechanics of the musculo-skeletal system. Chichester (UK): John Wiley & Sons Ltd
- Richer, P. (1973). Artistic Anatomy. London: Pitman.
- Tichauer, E. R. (1978). The Biomechanical Basis of Ergonomics: Anatomy Applied to the Design of Work Situations. New York: John Wiley & Sons.

Avaliação (elementos e critérios) limite 900 caracteres

1. Frequência Escrita (60% Da Nota Final).
2. Trabalho Final (30% Da Nota Final): A Escolher Pelo Aluno Com O Acordo Do Docente.
3. Assiduidade E Participação Nas Aulas (10% Da Nota Final).

Data de actualização



**FACULDADE DE ARQUITECTURA**  
UNIVERSIDADE TÉCNICA DE LISBOA

FICHA DE UNIDADE

CURRICULAR

Última actualização em: quarta-feira, 31 de Julho de 2013



UNIT FORM

Code:		Curricular Unit Type	
201340000	<b>Ergonomics</b>	<b>Compulsory</b>	
Academic Year	Degree:	Cycle of Studies:	
2013-2014	Degree in Design	1° <input checked="" type="checkbox"/> 2° <input type="checkbox"/> 3° <input type="checkbox"/>	
Unit Credits:	Lecture Language	Curricular Year:	
3,5 ECTS	<input checked="" type="checkbox"/> Portuguese <input type="checkbox"/> English <input type="checkbox"/> Specify Other language	1° <input type="checkbox"/> 2° <input checked="" type="checkbox"/> 3° <input type="checkbox"/> 4° <input type="checkbox"/> 5° <input type="checkbox"/>	
Scientific Area:		Annual:	Semester:
<input type="checkbox"/> Archit. <input type="checkbox"/> Urban. <input checked="" type="checkbox"/> Design <input type="checkbox"/> DCV <input type="checkbox"/> CST <input type="checkbox"/> TAUD <input type="checkbox"/> HTAUD		<input type="checkbox"/>	1° <input checked="" type="checkbox"/> 2° <input type="checkbox"/>
Prerequisites:		Trimester:	
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> There are no prerequisites for this curricular unit		1° <input type="checkbox"/> 2° <input type="checkbox"/> 3° <input type="checkbox"/>	

Responsible Professor(s)

Teresa Michele Maia dos Santos		
Assistant Professor	Email: tmsantos@fa.utl.pt	URL: www.fautl.pt
Rank:	Email:	URL:

Lecture(s)

Teresa Michele Maia dos Santos		
Assistant Professor	Email: tmsantos@fa.utl.pt	URL: www.fautl.pt
Rank:	Email:	URL:
Rank:	Email:	URL:
Rank:	Email:	URL:

Contact Hours:

Lectures:	Practical:	Lectures-Practical:	Laboratory:	Seminary:	Tutorials:	Others:	Total Contact Hours:
0,0 H	0,0 H	42 H	0,0 H	0,0H	0,0 H	0,0 H	42,0 Hours

Estimated Workload

Includes the total contact hours plus overtime devoted to the course unit

Total Workload: 98,0 Hours

Goals (topics) limit 900 characters

<p>This course aims to:</p> <ol style="list-style-type: none"> <li>(1) Introduce students to the ergonomics principles and concerns;</li> <li>(2) Introduce students to the inclusion of ergonomics in design projects;</li> <li>(3) Provide methods of analysis and evaluation of products or systems from the ergonomics point of view.</li> </ol>
--

Programmatic contents / Programme limit 1500 characters

<ol style="list-style-type: none"> <li>(1) Introduction to ergonomics: theory and design applications;</li> <li>(2) Anthropometrics in ergonomics;</li> <li>(3) Ergonomics evaluation of products and / or systems</li> </ol>
---



UNIT FORM

Classes will be supported by a series of presentation and readings and by the development of a practical work.

**Competencies to be acquired by students (topics)** limit 3000 characters

Provide students with the theoretical and practical need information tools that allow the understanding of design problems within ergonomics, including the individual, the environment, the tasks they have to perform as well as their limitations and expectations.

**Main Bibliography** limit 3000 characters

- Clark, T. S. & Corlett, E. N. (1984). The Ergonomics of Workspaces and Machines: A Design Manual. London: Taylor & Francis.
- Croney, J. (1971). Anthropometrics for Designers. New York: Van Nostrand Reinhold.
- Damon, A. et al (1966). The Human Body in Equipment Design. Massachusetts: Harvard University Press.
- Dreyfuss, H. (1966). The Measure of Man: Human Factors in Design. New York: Whitney Library of Design.
- Dul, J. & Weerdmeester B. (2002). Ergonomics for Beginners. London: Taylor & Francis.
- Fraser, T.M. (1981). Design for Work and Use. London: Taylor & Francis.
- Hancock P. (1999). Human Performance and Ergonomics. San Diego: Academic Press
- Lida, I. (1990). Ergonomia - Projeto e Produção. S. Paulo: Editora Edgard Blucher Ltda.
- Karwowski, W. et al. (1990). Computer-Aided Ergonomics. New York: Taylor & Francis.
- Karwowski, W. & Marras W. (1999). The Occupational Ergonomics Handbook. New York: CRC Press.
- Mital, A. et al (1991). Workspace, Equipment and Tool Design. New York: Elsevier.
- Montmollin, M. (1995). A Ergonomia. Lisboa: traduzido e editado por Instituto Piaget; Éditions La Découverte 1990, Paris.
- Osborne, D. J. (1987). Ergonomics at Work. Chichester: Wiley.
- Panero, J. et al (1993). Las dimensiones Humanas en los Espacios Interiores. México: Ediciones G. Gili.
- Pheasant, S. (1986). Bodyspace: Anthropometry, Ergonomics and Design. London: Taylor & Francis.
- Pheasant, S. (1991). Ergonomics, Work and Health. Basingstoke: Macmillan.
- Rebelo, F. (2004). Ergonomia no Dia a Dia. Lisboa: Edições Sílabo.
- Salvendy, G. (1987). Handbook of Human Factors. New York: Wiley.
- Schmidtke, H. (1984). Ergonomic Data for Equipment Design. New York: Plenum Press.
- Singleton, W. T. (1962). Introduction to Ergonomics. Geneva: World Health Organization.
- Sobral, F. (1985). Curso de Antropometria. Lisboa: ISEF/UTL.
- Vredenburg K. et al (2002). User-Centered Design: an Integrated Approach. New Jersey: Prentice Hall.
- Woodson, W. E. (1981). Human Factors Design Handbook. New York: McGraw-Hill.

**Additional Bibliography** limit 3000 characters

- Chaffin, D. B. (1991). Occupational Biomechanics. New York: John Wiley.
- Farris, E. (1966). Art Students' Anatomy. New York: Dover Publications.
- Kumar S. (1999). Biomechanics in Ergonomics. London: Taylor & Francis.
- Marsh, R. (1970). Anatomy for Artists. New York: Dover Publications (reprint).
- Nigg B. & Herzog W. (1999). Biomechanics of the musculo-skeletal system. Chichester (UK): John Wiley & Sons Ltd
- Richer, P. (1973). Artistic Anatomy. London: Pitman.
- Tichauer, E. R. (1978). The Biomechanical Basis of Ergonomics: Anatomy Applied to the Design of Work Situations. New York: John Wiley & Sons.

**Assessment** limit 900 characters

1. Written Test (60% Of Final Grade).
2. Final Work (30% Of Final Grade): To Be Chosen By The Student With The Agreement Of The Teacher.
3. Presences And Class Interaction (10% Of Final Grade).

Last updated

Last updated on: Wednesday, 31 July 2013



**FACULDADE DE ARQUITECTURA**  
UNIVERSIDADE TÉCNICA DE LISBOA

CURRICULAR

UNIT FORM