



Estabelecimento	Universidade Técnica de Lisboa Technical University of Lisbon	
Unidade Orgânica	Instituto Superior de Ciências Sociais e Políticas School of Social and Political Sciences	
Plano de Estudos	Licenciatura em Mestrado em Doutoramento em E-Planning	
Study Plan	Bachelor Degree in Master Degree in Doctoral Degree in E-Planning	
Tipo Type (Diurno ou Pós-laboral)	Diurno	
Descritor Subject File		
Área Disciplinar/Científica	ePlanning, Metodologia	
<i>Scientific Area</i>	ePlanning Theory and Methods	
Unidade Curricular	Public Participation and Decision-Support Systems	
<i>Subject</i>	Public Participation and Decision-Support Systems	
Docente(s) Lecturer(s)	Pedro Ferraz de Abreu	
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Pré-Requisitos	N/a	
<i>Prerequisites</i>	N/a	
Obrigatória/Opcional	Opcional	
<i>Mandatory/Optional</i>	Optional	
Ano Lectivo Academic Year	2011/2012	
Ciclo Cycle	III	
Ano Curricular Course Year	1º ano	
Semestre Semester	2º	
Carga lectiva	2 horas/semana	
<i>Teaching Load</i>	2 hours/week	
Métodos de Ensino	Teórico-Prático/Laboratorial; web site http://www.labtec-cs.net/iscsp/	
<i>Teaching Methods</i>	Theoretical-Practical/ Laboratory; web site http://www.labtec-cs.net/iscsp/	
Métodos de Avaliação	Participação nas aulas (10%); Contribuição para syllabus, referências e readers da disciplina (20%); Artigo Individual para publicação, submetido a uma revista com "refererres" na area ePlanning, de acordo com as regras editoriais dessa revista, (70%)	
<i>Assessment Methods</i>	Class participation (10%); Contribution to syllabus, references and class readers (20%); Individual Article for publication to be submitted to a refereed journal within ePlanning domain, ready and according to editorial rules of target publisher (70%)	
Língua Language	Portuguesa, com alguma sessões em inglês / Portuguese, with some sessions in english	
Créditos ECTS ECTS Credits	10	
Tempo Trabalho (horas) Workload (hours)	Total: 250	Contacto TP = 30 OT = 15
Distribuição de Créditos	de acordo com as novas regras - não aplicável,	
<i>Credits Distribution</i>	n/a	
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Conteúdos Programáticos	A. O Salto Qualitativo das novas TIC e o seu impacto nos modelos de decisão	



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	<ul style="list-style-type: none">- A regra de Platão revisitada- Equações de Shannon e Neguentropia- O factor 'enabling' das TIC- As TIC de podem influenciar a decisao? <p>B. Elementos da Teoria do Estado</p> <ul style="list-style-type: none">- Papel e natureza do Estado- Modelos historicos e de Classe- Papel das Instituicoes e quadro regulatorio <p>C. Elementos da Teoria de Economia Politica</p> <ul style="list-style-type: none">- Conceito de mais-valia e factores de producao- Modelos de propriedade e correspondentes Modelos de Decisão- A natureza da Economia da Informacao e do conhecimento- As novas TIC e a relacao de forcas consumidor-produtor <p>D. Teorias da Decisão</p> <ul style="list-style-type: none">- O dilema do prisioneiro- Estrutura da Decisao e seu faseamento- Componentes analiticos da Decisao- Modelos de decisao e matriz TIC- As instituicoes da decisao <p>E. Teoria e Pratica da Participação Publica.</p> <ul style="list-style-type: none">- Teoria Administrativa vs Substantiva- Valores e Expertise- Teoria Incremental- Tecnicas de Participacao e mapa de atributos de TIC- Modelos de participacao (blackboard, estrela, intervencao)- As instituicoes da participacao <p>F. Elementos da Teoria do Conhecimento</p> <ul style="list-style-type: none">- Goneseologia vs. epistemologia- Dialectica da Natureza- Paradigma da maçã de Politzer- Memoria do conhecimento e construcao de capacidade- Papel do conhecimento na decisao <p>G. Modelos de Representação do Conhecimento</p> <ul style="list-style-type: none">- Case-based frames- Elementos da Teoria de Grafos- Modelos em arvore e em grafo- Elementos de Inteligencia Artificial- Regras de produção e Sistemas Periciais- Motores de Inferência, forward and backward chaining- Arvores de decisao. Construcao pratica- Construcao pratica de um Sistema Pericial <p>I. Casos-Estudo. Exemplos de Projecto</p> <ul style="list-style-type: none">- IMS - Sistema Multimedia Inteligente em apoio a decisao e consulta publica- Sistema de Gestao Recursos Naturais
Syllabus	<p>A. ICT Qualitative Jump and its impact on Decision Models</p> <ul style="list-style-type: none">- "Plato's Rule" revisited- Shannon equations and Neguentropy- The ICT "enabling factor"- Can ICT influence decisions? <p>B. Elements of Theory of State</p> <ul style="list-style-type: none">- The role and nature of the state- Historical and Class models- Role of Institutions and Regulatory Frameworks <p>C. Elements of Political Economy Theory</p> <ul style="list-style-type: none">- Added-value concept and production factors



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	<ul style="list-style-type: none">- Models of property and corresponding Decision-models- The nature of Information Economy and Knowledge Economy- The new ICT and the rapport of power consumer-producer D. Decision Theories<ul style="list-style-type: none">- The Prisonner's Dilemma- Structure of Decision and its phases- Analytical components of a decision- Decision models and ICT matrix- The institutions of Decision E. Theory and Praxis of Public Participation<ul style="list-style-type: none">- Administrative vs. Substantive Theory- Values and Expertise- Incremental Theory- Techniques of Participation and ICT attribute map- Models of Participation (blackboard, Star, Interventive)- The Institutions of Participation F. Elements of Theory of Knowledge<ul style="list-style-type: none">- Gnoseology vs. Epistemology- Dialectics of Nature- Politzer's Apple Paradigm- Memory of Knowledge and Capacity Building- Role of Knowledge in Decision-making G. Models of Knowledge Representation<ul style="list-style-type: none">- Case-based frames- Elements of Graph Theory- Tree and Graph models- Elements of Artificial Intelligence- Production Rules and Expert Systems- Inference Engines, Forwards and Backward Chaining- Decision Trees; Building decision tree exercice- Building and Expert System – concrete example and tool I. Case-Studies. Exemples of Projects<ul style="list-style-type: none">- IMS – Intelligent ultimedia System in support to Decsion and Public Consultation- Natural Resource Management System
Objectivos Gerais	<ul style="list-style-type: none">- Dominar o essencial dos impactos visiveis das novas TIC na teoriaa e praxis da participação pública nas decisões- Consolidar o dominio das teorias de suporte à teoria da decisão e participação, escolas classica e moderna- Conhecer com detalhe as principais políticas públicas dos estados neste dominio- Desenvolver capacidade de uso, desenho e concepção de ferramentas TIC PPDS- Conhecer a fundo um caso-estudo sobre os desafios, dificuldades e soluções neste dominio.- Desenvolver capacidade analitica, argumentativa e formulação de hipóteses e metodologias de investigação neste dominio..
<i>General Goals</i>	<p>Master the essential of the impact of new ICT in the theory and praxis of public participation in decision-making</p> <ul style="list-style-type: none">- Consolidate knowledge on core theories supporting decision-making theory - classic and modern- Awareness of main Public Policies in this domain- Develop capacity of use, conceprion and design of ICT tools for PPDS- Develop analytical capacity, ability to argue and formulate hypothesis and research methodologies in this domain- In-depth knowledge of one case-study, in what concerns challenges and solutions in this domain
Objectivos Específicos	Assimilar o Programa, Realizar Investigação ePlanning com produto, Publicar Artigo Cientifico emanado da matéria.
<i>Specific Goals</i>	.To assimilate the program, generate ePlanning research with an end product - a scientific publication emerging from this domain.



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Demonstração da coerência dos conteúdos programáticos com os objectivos	De acordo com a natureza genérica de investigação doutoral e a natureza específica do investigação em e-Planning
<i>Demonstration of the consistency of the syllabus with the goals</i>	According to the generic nature of doctoral research and the nature of research in e-Planning
Perfil de saída	DEA ePlanning; Doutoramento e-Planning (com tese)
<i>Output profile</i>	DEA ePlanning; Joint Doctoral Degree in e-Planning (with thesis).
Competências Adquiridas	<ul style="list-style-type: none">- produzir um diagnóstico e reflexão crítica sobre as teorias dominantes da actualidade.- avaliar as implicações, em termos de definição de doutrina de participação pública, no quadro de políticas públicas e planeamento, das temáticas abordadas- uso de ferramentas PPDSS.
<i>Acquired Skills</i>	<ul style="list-style-type: none">- Produce a diagnose and critical reflection on the current dominant theories- Evaluate implications in terms of doctrine of public participation, within the framework of public policies and planning in this domain- Use of PPDSS tools
Metodologias de ensino	Aulas teórico-práticas; Palestra, debate e investigação. Encontros Tutoriais com apresentação e discussão dos casos estudo.
<i>Teaching methodologies</i>	Theoretical-practical lessons; case-based tutorial studies & discussion
Demonstração da coerência das metodologias de ensino com os objectivos	A natureza da investigação científica assim o exige
<i>Demonstration of the consistency of the teaching methodologies with the goals</i>	The nature of scientific investigation so requires
Bibliografia	<p>Bibliografia Principal</p> <p>Berners-Lee, T. (2010) "Long Live the Web: A Call for Continued Open Standards and Neutrality", Scientific American, 22 November, 2010</p> <p>Ferraz de Abreu, P. (2010), "Building Knowledge Capacity with ICT in the Urban Context", guest communication at the Conference "Les technologies de réalité mixte au service du projet urbain : Rencontre autour du projet IP CITY", ENSA-V, Université Paris-Est, 10 November 2010, France</p> <p>Friedland, J. and Rogerson, K. (2009) "How Political and Social Movements Form on the Internet and How They Change Over Time", Institute for Homeland Security Solutions, Literature REview, November 2009</p> <p>Orzag, Obama Administration (2009) "Open Government Directive", MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES, December 8, 2009, EXECUTIVE OFFICE OF THE PRESIDENT OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, D.C. 20503</p> <p>Ferraz de Abreu, P. (2008). "Project IMS – Intelligent Multimedia System for Public Consultation: Prototype Demonstration", Workshop "Laboratório de Tecnologia para as Ciências Sociais: Visão, Projectos e Linhas de Investigação", CAPP-TSG, ISCSP-UTL, Lisboa, 28 Novembro 2008.</p> <p>Van Laer, J. (2007). Internet use and protest participation: How do ICTs affect mobilization? Working paper PSW-paper 2007/1. Antwerp: Politieke Wetenschappen. Available at http://webhost.ua.ac.be/psw/pswpapers/PSWpaper%202007-01%20jeroen%20van%20laer.pdf.</p> <p>Johnson, Michael P. (2006) "Public Participation and Decision Support Systems: Theory, Requirements, and Applications", Association of Public Policy Analysis and Management Fall Conference, Madison, WI, November 3, 2006</p> <p>Garrett, R. K. (2006). Protest in an information society: A review of literature on social movements and new ICTs. Information, Communication & Society, 9, 202–224.</p> <p>Ferraz de Abreu, P. (2002), "New Information Technologies in Public Participation: A Challenge to Old Decision-making Institutional Frameworks", PhD Thesis, MIT.</p>



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	<p>WCD (2000). "Dams and Development: A New Framework for Decision-Making". Report of the World Commission on Dams, November 2000, Earthscan Publications.</p> <p>Chomsky, N. (2000) "The Manufacture of Consent".</p> <p>Ferraz de Abreu, P. & Joanaz de Melo, J. (eds) (2000). "Public Participation and Information Technologies 1999". CITIDEP, DCEA-FCT-UNL, Lisbon.</p> <p>Bimber, B. (1998). The internet and political transformation: Populism, community, and accelerated pluralism. <i>Polity</i>, 31(1), 133-161.</p> <p>Agapow, Paul-Michael. "Analysis of Scenarios." 1998. http://www.cs.latrobe.edu.au/~agapow/Teaching/Cs292/pd.week.6.html (10 Jun. 1999).</p> <p>Wriston, W.B. (1992). <i>The Twilight of Sovereignty</i>. MacMillan, Scribners. 1992.</p> <p>Borja, J. (1993) "Democracia Local: Descentralização do Estado, Políticas Economicas e Sociais na Cidade e Participação Popular". 1993. <i>Cadernos Municipais</i>, Barcelona.</p> <p>Vlachos, E. (1993). "North American Experiences with Public Participation". Colorado State University, Fort Collins, CO 80523. Encontro sobre Consulta Publica no Processo de Avaliação Ambiental, 25 Maio 1993.</p> <p>Wright et al (1993). <i>Expert Systems in Environmental Planning</i>. J. R. Wright, L. L. Wiggins, T. J. Kim. (eds) Purdue University, MIT, University of Illinois. Springer-Verlag. 1993.</p> <p>Vasconcelos, L.T. (1993). "Difficulties in Integrating 'Hostile' Data in Environmental Decisions: the case of the new bridge over the Tagus river". ACSP, 1993.</p> <p>Ferraz de Abreu, P. (1992). "The rude awakening of the recycling adventurers". in <i>The Breakfast Papers #2</i>. December 1992. MIT, Dep. Urban Studies and Planning, USA.</p> <p>Poundstone, W. (1992). <i>Prisoner's Dilemma</i>. William Poundstone. Anchor Books, New York. 1992.</p> <p>Pearce, A. et al (1992). "Case-Based Design Support". Pearce, A. Goel, J. Kolodner, C. Zimring, L. Sentosa, R. Billington. <i>IEEE Expert</i> October 1992.</p> <p>Ostrom, E. (1992). "The Rudiments of a Theory of the Origins, Survival, and Performance of Common Property Institutions". In <i>Making the Commons Work</i>, Daniel Bromley (ed). 1992.</p> <p>Kim, T.J. et al (1990). <i>Expert Systems: Applications To Urban Planning</i>. T. J. Kim, L. L. Wiggins, J. R. Wright. University of Illinois, MIT, Purdue University. Springer-Verlag. 1990.</p> <p>Chomsky, N. (1987) "The manufacture of consent". in <i>The Chomsky Reader</i>, Pantheon Books, New York. 1987.</p> <p>Marx, G.T. (1986). "The iron fist and the velvet glove: totalitarian potentials within democratic structures". in <i>The social fabric - Dimensions and issues</i>, edited by James Short. 1986.</p> <p>Innes, J.E. (1988). "Effects of Data Requirements on Planning". In <i>Computer Environment and Urban Systems</i>, Vol. 12 1988, pp 77-88.</p> <p>Glass, J.J. (1979). "Citizen Participation in Planning: The Relationship Between Objectives and Techniques". <i>Journal of American Planning Association</i>, Vol. 45 #2, April 1979.</p> <p>Woods (1975). "What's in a Link: Foundations for Semantic Networks". in <i>Representation and Understanding - Studies in Cognitive Sciences</i>, Bobrow and Collins (eds), New York, Academic Press. 1975. pp 35-82</p> <p>Bibliografia Complementar</p> <p>Curran, K. (2012) "Innovative Applications of Ambient Intelligence: Advances in Smart Systems", University of Ulster, UK, January 2012, http://www.igi-global.com/book/innovative-applications-ambient-intelligence/56015&f=hardcover</p>



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	<p>Manuel Velasquez, Claire Andre, Thomas Shanks, S.J., and Michael J. Meyer (2010) "Thinking Ethically: A Framework for Moral Decision Making", Markkula Center for Applied Ethics; http://www.scu.edu/ethics/publications/iie/v7n1/thinking.html</p> <p>Hampton, K. (2003). Grieving for a lost network: Collective action in a networked suburb. <i>The Information Society</i>, 19, 417-428.</p> <p>Cleaver, H. (2000) Zapatistas in cyberspace. Available at http://www.eco.utexas.edu/faculty/Cleaver/zapsincyber.html</p> <p>Maner, W. (1999) "Heuristic Methods for Computer Ethics" Walter Maner maner@cs.bgsu.edu http://csweb.cs.bgsu.edu/maner/heuristics Department of Computer Science, Bowling Green State University, Bowling Green, Ohio, United States</p> <p>Ferraz de Abreu, P., Chito, B, (1997). "Current Challenges in EIA Evaluation in Portugal, and the Role of New Information Technologies: -- The Case of S. João da Talha's Incinerator for Solid Urban Waste", in Machado, J. Reis & Ahern, Jack (eds).1997. <i>Environmental Challenges in an Expanding Urban World and the Role of Emerging Information Technologies</i>. National Centre for Geographical Information (CNIG). Lisboa, Portugal. 538 pages, pp. 1-11.</p> <p>American School Counselor Association. "Ethical Decision Making Model." 1996. http://www.schoolcounselor.org/Ethics/ethics_d.html (9 Jun. 1999).</p> <p>Ferté, J. (1993). "Public Involvement in Nuclear Decisions". in <i>The OECD Observer</i>, 180, Feb.March 1993, pp 12-14.</p> <p>Joanaz de Melo, J. (1993b). "Metodologia de decisão, informação e consulta publica para a instalação do sistema de gestão de resíduos perigosos em Portugal". João Joanaz de Melo, Conceição Martins, Marlene Marques. GEOTA - Grupo de Estudos de Ordenamento do Território e Ambiente, para o Ministerio de Ambiente e Recursos Naturais, Portugal, Dezembro 1993.</p> <p>Oakley, P. (1991). <i>Projects with People: The practice of participation in rural developments</i>. International Labour Organizations, Geneva, 1991. 210 pp.</p> <p>Niemann, B. (1987). "Better information for better decisions: no question about it". Australasian Urban and Regional Information Systems Association. URPIS 15, 1987.</p>
<i>Bibliography</i>	idem .
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