

DEREE COLLEGE SYLLABUS FOR :	
ES 4327 ENVIRONMENTAL MANAGEMENT SYSTEMS	
3/0/3	
UK LEVEL: 6	
UK CREDITS: 15	
(Updated Spring 2016)	
PREREQUISITES:	ES 1000 Environmental Science: Ecosystems and Biodiversity ES 1010 Environmental Science: Energy Resources and Pollution ES 3220 Principles of Environmental Management
CATALOG DESCRIPTION:	An exploration of the commonly applied Environmental Management Systems by corporations, with emphasis on international environmental management systems, such as ISO 14001 and EMAS. The Valdez principles and the Natural Step approach are also discussed.
RATIONALE:	All human activities have impacts on the environment. At a time when the significance of environmental problems is unquestionable, all parties are called to re-evaluate their practices and consider sustainable ways of managing natural resources. Businesses have a significant role to play in sustainable development. Thus, it is important to understand the basics of environmental management (theory and practice) as well as be acquainted with systematic approaches to environmental management.
LEARNING OUTCOMES:	As a result of taking this course, students should be able to: <ol style="list-style-type: none"> 1. Demonstrate knowledge of Environmental Management Systems (EMS) and their main steps, relevant policies, other environmental management tools. 2. Critically discuss the relation between enterprises and a sustainable society. 3. Discuss and assess different environmental management standards: ISO 14001 and EMAS. 4. Identify and define environmental problems and apply appropriate knowledge and skills to selected case studies or real life situations. 5. Demonstrate ability to collect, record, process, interpret and present data using different qualitative and quantitative techniques. 6. Show ability to communicate effectively in several forms (e.g. written, graphical and verbal) and produce detailed and coherent project reports.
METHOD OF TEACHING AND LEARNING:	In congruence with the learning and teaching strategy of the college, the following tools are used: <ul style="list-style-type: none"> • Class lectures, interactive learning (class discussions, group work), video presentations, and case studies discussed in class. • Exercises and primary source documents are assigned as homework, the answers and critical response to which are reviewed in class • Inquiry through the internet and other sources • Student projects and presentations • Office hours: students are encouraged to make full use of the office hours of their instructor, where they can ask questions, see their exam paper, and/or go over lecture/lab material. • Use of a blackboard site, where instructors post lecture notes, assignment instructions, timely announcements, as well as additional resources

ASSESSMENT:	<p>Summative:</p> <table border="1" data-bbox="630 218 1370 365"> <tr> <td>Project (3,000-3,500 words)</td><td>50%</td></tr> <tr> <td>Critical response to selected essay questions (take home)</td><td>50%</td></tr> </table> <p>Formative:</p> <table border="1" data-bbox="630 424 1370 512"> <tr> <td>Critical response to selected questions during the semester and/or engagement with on-line tools</td><td>0</td></tr> </table> <p>The formative activities aim to prepare students for the final assessment. The student project tests learning outcomes 1, 4, 5 and 6. The essay questions test learning outcomes 1, 2, 3, 4, 5 and 6.</p>	Project (3,000-3,500 words)	50%	Critical response to selected essay questions (take home)	50%	Critical response to selected questions during the semester and/or engagement with on-line tools	0
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INDICATIVE READING:	<p>REQUIRED MATERIAL: Sheldon, C. and Yoxon, M. 2008. <i>Environmental Management Systems: A Step-by-Step Guide to Implementation and Maintenance</i>. (Third edition) Earthscan Publications.</p> <p>RECOMMENDED MATERIAL: Selected articles</p>						
INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	<p>REQUIRED MATERIAL: N/A</p> <p>RECOMMENDED MATERIAL: N/A</p>						
COMMUNICATION REQUIREMENTS:	In all presentations using proper English, written or spoken.						
SOFTWARE REQUIREMENTS:	Microsoft Word, Microsoft PowerPoint, Blackboard CMS.						
WWW RESOURCES:	www.iso.org http://ec.europa.eu/environment/emas/index_en.htm						
INDICATIVE CONTENT:	<ol style="list-style-type: none"> 1. Corporations and environment: sustainability 2. Brief history of environmental management theories/approaches 3. Environmental policy and legislation in the European Union 4. Historical review of EU's environmental legislation 5. Basic principles of EU environmental policies and 6th Environmental Action Programme 6. Brief reference to relevant environmental legislation (by theme; referring to the Environmental Management and Audit Scheme) 7. An Introduction to environmental management systems: principles, basic elements / steps, international standards 						