

DEREE COLLEGE SYLLABUS FOR: : ES 4229 SUSTAINABLE CITIES		3/0/3		
(Updated Fall 2022)		UK LEVEL: 6 UK CREDITS: 15		
PREREQUISITES:	ES1000 Environmental Science: Ecosystems and Biodiversity, ES1010 Environmental Science: Energy Resources and Pollution			
CATALOG DESCRIPTION:	This course studies cities and how these can be sustainable. It addresses the political, social and physical dimensions of sustainable cities. It explores why and how to plan living environments that are attractive, functional, appropriately scaled and enjoyable, while reducing their environmental impacts and the energy it takes to build them and operate them.			
RATIONALE:	More than half of the population on Earth lives in cities and cities consume 75% of the world's energy. Physical / spatial issues (relating to land use and development, transportation, energy, waste and natural resources) and political and social parameters (like power relations and interest groups, private and public goods, social inequalities like class, gender and ethnicity) are all relevant to the planning and operation of cities so that they constitute/become sustainable communities. Considerations like scale and density, walkability, safety, energy and natural resource use are central to urban planning for sustainable cities.			
LEARNING OUTCOMES:	As a result of taking this course, the student should be able to: 1. Demonstrate knowledge and critical understanding of the basic concepts, underlying issues and important parameters of sustainable city planning 2. Analyze different themes / dimensions of sustainable cities, like transportation, public spaces, energy efficiency, urban green spaces and sustainable neighborhoods. 3. Critically apply the knowledge of sustainable city planning theories to selected case studies or problems. 4. Show ability to communicate effectively in several forms (e.g. written, graphical and verbal), engage in debate in a professional manner and across disciplines, 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. • Formative activities (e.g. discussion/investigation of case studies, critical response to selected questions) • Invited speakers or site visits. • Student presentations. • Office hours: students are encouraged to make full use of the office hours of their instructor, where they can discuss class material or any aspect related with the course. • Use of a blackboard site, where instructors post lecture notes, assignment instructions, announcements, as well as additional on-line resources. 			
ASSESSMENT:	Summative: <table border="1" style="width: 100%;"> <tr> <td>Project (3,000-3,500 words)</td> <td align="right">45%</td> </tr> </table>		Project (3,000-3,500 words)	45%
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	<table border="1" data-bbox="626 191 1370 291"> <tr> <td>Critical response to selected essay questions (take home)</td> <td>45%</td> </tr> <tr> <td>Portfolio (individual work)</td> <td>10%</td> </tr> </table> <p>Formative:</p> <table border="1" data-bbox="626 348 1370 436"> <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 selected questions (summative assessment), but also for the analytical part of the research paper. Both the student project and the critical responses to selected questions test all learning outcomes.</p> <p>Students are required to resit failed assessments in this module.</p>	Critical response to selected essay questions (take home)	45%	Portfolio (individual work)	10%	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:</p> <p>a. Cohen, S. (2018). <i>The Sustainable City</i>. Columbia University Press. https://www.jstor.org/stable/10.7312/cohe18204.17</p> <p>RECOMMENDED MATERIAL:</p> <p>a. Douglas F. 2007. <i>Sustainable Urbanism: Urban Design with Nature</i>. John Wiley and Sons. b. Register, R. 2006. <i>EcoCities: Rebuilding Cities in Balance with Nature</i>. Published by New Society Publishers. (includes tools) c. Yudelson, J. 2007. <i>Green Building A through Z: Understanding the Language of Green Building</i>. Published by New Society Publishers. d. Corburn, J. 2009. <i>Toward the Healthy City: People, Places and the Politics of Urban Planning</i>. MIT Press.</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:	<p>https://en.unesco.org/unesco-for-sustainable-cities (UNESCO for sustainable cities) https://www.iclei.org/ (ICLEI - Local Governments for sustainability) https://www.sustainable-city.gr/projects-gr.html (Sustainable City - Cities Network for sustainable development and circular economy) http://ec.europa.eu/environment/urban/sustainable_urban_design.htm http://www.communities.gov.uk/archived/general-content/citiesandregions/sustainableurbandesign/</p>						
INDICATIVE CONTENT:	<ol style="list-style-type: none"> 1. Introduction: Sustainable cities (linking sustainability and cities) 2. Urban planning: people and places debates 3. Sustainable cities: basic concepts (e.g. density, mobility, community, system) 4. Dimensions of urban sustainability (e.g. green buildings, low carbon cities, urban green, sustainable communities, poverty and 						

	environmental justice) 5. Approaches to planning sustainable cities
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