DEREE COLLEGE SYLLABUS FOR: : ES 4443 INTEGRATED METHODS IN ENVIRONMENTAL ANALYSIS II 3/0/3		
		UK LEVEL: 6 UK CREDITS: 15
(Updated Fall 2023)		
PREREQUISITES:	ES 1000 Environmental Science: Ecosystems ES 1010 Environmental Science: Energy Reso MA 2025 Applied Statistics for Sciences ES 3340 Integrated Methods in Environmental	ources and Pollution
CATALOG DESCRIPTION:	This course aims to cover basic methods and environmental studies and management. It inc selected social scientific methods and their techniques, in order to provide a sound basis inquiry required in environmental studies. It experience on some of the presented method and/or field work.	ludes the discussion of basic principles and for the interdisciplinary also offers hands-on
RATIONALE:	Any systematic and effective environmental state the knowledge of scientific methodology. Environmental Studies are interdisciplinary, dra and social sciences; therefore, their method interdisciplinary, often using mixed modes of aspects of environmental action, natural scient in course ES 3240 Integrated Methods in En are discussed. For behavioral and social aspractices, social scientific, field-based empinterpretive methods are needed; these are discussed will also prepare the proposal for their this course is a prerequisite to the Environment	awing from both natural dology should also be inquiry. For technical ific methods presented vironmental Analysis I pects of environmental birical and text-based scussed in this course. It capstone projects; so
LEARNING OUTCOMES:	 As a result of taking this course, the student state. Demonstrate knowledge of and apply seemethods and techniques related to envir as sampling techniques, interviews and quality theoretical assumptions, capabilities scientific methods and techniques. Identify moral and ethical issues of scientific methods and techniques. Identify moral and ethical issues of scientific methods and apply professional code environmental research. Demonstrate ability to collect, record, professional data using appropriate qualification methods and techniques. Design and plan their capstone (environmethy preparing their capstone proposal, was and within agreed guidelines. 	elected social scientific conmental studies such questionnaires ing methodologies (i.e. and constraints) of entific research and be s of conduct to their cess, analyze, interpret itative and quantitative
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning the following tools are used: Class lectures, interactive learning (clawork), video presentations and case stude Practical problems addressed (e.g. creating Students' projects and presentations Formative activities (e.g. homework ass with on-line tools) which are reviewed in the following the following students are reviewed in the following tools are used:	ss discussions, group ies discussed in class. on of a questionnaire) ignments, involvement

	 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 class material. Use of a blackboard site, where instructors post lecture notes, assignment instructions, announcements, as well as additional online resources. 	
ASSESSMENT:	Summative:	
AGGEGGMENT.	Student's capstone proposal (2,000 - 3,000 words)	40%
	Selected practical exercises	30%
	Critical response to selected essay questions (in class)	30%
	Formativo	
	Formative: Critical response to selected questions during the semester and/or engagement with on-line tools	0%
	The formative questions aim to prepare students for Practical exercises test learning outcomes 1, 2, 3 and The capstone proposal tests learning outcome 1, 2, The final examination tests learning outcomes 1, 2 and 2 and 3 a	nd 4. 3 and 5.
	Students are required to resit failed assessments in	this module.
INDICATIVE READING:	REQUIRED READING: Kanazawa, M. (2017). Research Methods for Environmental Studies A Social Science Approach. London: Routledge. https://doi.org/10.4324/9781315563671 RECOMMENDED READING: 1. Montello, D.R. & Sutton, P.C. 2013. An Introduction to Scientific Research Methods in Geography and Environmental Studies. Sage. 2. Knight, A. & Ruddock, L. 2008. Advanced Research Methods in the Built Environment. Wiley-Blackwell 3. Selected articles	
INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	REQUIRED MATERIAL: N/A	
COMMUNICATION REQUIREMENTS:	In all presentations using proper English, written or spoken.	
SOFTWARE REQUIREMENTS:	Microsoft Word, Microsoft PowerPoint, Blackboard CMS.	
WWW RESOURCES:	As needed for the selected topic.	
INDICATIVE CONTENT:	Introduction: Scientific Research in Environ (Interdisciplinarity & basic steps) Scientific Methodology: Quantitative a Approaches Selecting the Topic and the Research Method Data Collection and Analysis:	and Qualitative

	Social Scientific Methods a. Discussing issues like: sampling, techniques, analysis in each method that will be presented) b. Discussion of selected methods (e.g. Surveys, Interviews, Archives, Case studies, Observations) 5. Presentation and Communication of the Research Results 6. Scientific Research: Researcher and Presentation Ethics
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