INNOVATIVE SEMINARS FOR THE PROFESSIONAL DEVELOPMENT OF ENVIRONMENTAL EDUCATORS (MASTED-02-13)

DEGREE PROGRAM:		Master in integrated STEAM Education (MASTED)			
SEMESTER:	TYPE:	CREDITS:	WORKLOAD:	MENTORING:	
Second	Basic	6 ECTS	150 hours	6 hours/week	
LANGUAGE: Spanish/English friendly					

OBJECTIVES				
General	The main aim of this subject is to provide educators with the knowledge, skills, strategies and resources necessary to identify relevant socio-environmental problems, make a diagnosis of needs and design, run and evaluate projects aimed at the co-creation of sustainable and participatory solutions.			
Specific	 Addressing environmental issues locally and globally relevant. Collecting information and running surveys for the analysis of needs. Co-designing and co-creating solutions based on the description of the problem and the analysis of needs. Engaging stakeholders in co-creation processes and providing a sense of empowerment and ownership in the implementation of strategies to improve the close environment. Designing and running environmental projects for sustainability. Evaluating projects of environmental education for sustainability. 			
SUBJECT MATTER				
 How to address Diagnoses of soc Design and co-c needs. How to engage s ownership in the 	onmental projects for sustainability. environmental issues locally and globally relevant. cio-environmental problems. creation of solutions based on the description of the problem and the analysis of stakeholders in co-creation processes and providing a sense of empowerment and e implementation of strategies to improve the close environment.			
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COMPETENCES				
 C1: Developing knowledge and understanding in socio-environmental problems. C2: Developing advanced cognitive and procedural skills associated with knowledge development and creation. C5: Developing of assess in order to evidence learning and to improve the learning process and the 				
 C8: Professional development and self-reflection. 				
 C9: Integrating the theoretical knowledge acquired throughout the course with field practice. C10: Developing communication and cooperation skills with different stakeholders. C12: Developing critical literacy competence. C13: Developing citizenship competence. C17: Embracing complexity in sustainability. C18: Acting for sustainability. 				
LEARNING OUTCO	DMES			
 Understands the epistemological perspectives of environmental education embracing the critical, complex, transdisciplinary, and constructivis perspectives as the foundation for a research model or the design o intervention strategies in environmental education. Critical understanding of literature and research relevant to environmental education. Understanding the role of environmental education in fostering citizenship and sustainable practices. 				

	• Understanding the complex nature of sustainability issues and their				
	interconnections.				
	Advanced skills in applying theoretical knowledge to real-world				
	environmental issues.				
	• Skills in assessing and evaluating the effectiveness of environmental				
	education programs.				
	Skills to apply theoretical knowledge in practical, real-world environmental				
	settings.				
	 Skills to communicate effectively and collaborate with diverse stakeholders in environmental projects 				
	in environmental projects.				
	 Skills in designing and implementing environmental projects that contribute to sustainability. 				
	 Practical skills in designing, implementing, and managing environmental 				
Skills	projects with a focus on sustainability.				
	 Skills to identify and address environmental issues at both local and global 				
	levels.				
	 Research skills to collect and analyse information for understanding 				
	environmental needs.				
	 Collaborative skills to work with stakeholders in developing solutions based 				
	on identified environmental problems.				
	 Skills to involve and empower stakeholders in the development and 				
	implementation of environmental strategies.				
	 Evaluation skills to assess the success and impact of environmental education 				
	projects.				
	Attitude toward continuous professional development and reflection on				
Attitudes/values	environmental education practices.				
	 Proactive attitude toward taking actions that contribute to sustainability. 				
TEACHING METHO					
	dology applied for the development of this subject includes:				
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 Participatory Lecture Problem/Project-Based Learning 					
	Dialogue and Debate-Based Learning				
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	e/Collaborative Learning				
Learning Co	-				
Service Lea					
This methodology translates into the following formative activities:					
 Theoretical 					
Practical Cl	asses				
Case Studie	25				
Seminars					
• Autonomous and/or collaborative student work for the generation of individual and/or shared					
knowledge					
Group Tutorials					
Self-assessment Activities					
Co-assessment Activities					
EVALUATION					
Attendance and/or					
Written test on theoretical concepts of the subject: 10.0%					
Completion/presentation of assignments, cases, or practical exercise solutions: 60.0%					
Self-assessment: 15	.0%				
PRECONDITIONS					
None					
DEPARTMENT	Didactics of Sciences				
LECTURERS	Marta Romero Ariza				

	Ana María Abril Gallego			
	María Gema Parra Anguita			
	Maria Consuelo Díez Bedmar.			
LITERATURE	 Acar Şeşen, B., & Mutlu, A. (2022). Project-Based Learning on Socio-scientific Issues in Environmental Education. Journal of Hasan Ali Yücel Faculty of Education/Hasan Ali Yücel Egitim Fakültesi Dergisi (HAYEF), 19(2). 			
	 Aguirregabiria Barturen, J., & García Olalla, A. M. (2020). Aprendizaje basado en proyectos y desarrollo sostenible en el Grado de Educación Primaria. Enseñanza de las ciencias: revista de investigación y experiencias didácticas. 			
	 Capdevila, Y., & Prado, S. (2021). Diálogos y convergencias para una educación ambiental: el ABP como experiencia educativa. Cadernos de Estágio, 3(2). 			
	 Collazo Expósito, L. M., & Geli de Ciurana, A. M. (2017). Avanzar en la educación para la sostenibilidad: combinación de metodologías para trabajar el pensamiento crítico y autónomo, la reflexión y la capacidad de transformación del sistema. Revista iberoamericana de educación. 			
	• Genc, M. (2015). The project-based learning approach in environmental education. International Research in Geographical and Environmental Education, 24(2), 105-117.			
	 Hernández, J. H. L., & Jiménez, M. A. (2020). Aprendizaje Basado en Problemas (ABP) como estrategia para promover la formación Educativa Ambiental en estudiantes universitarios: una aproximación desde la Didáctica. REVISTAS DE INVESTIGACIÓN, 43(98). 			
	• Sandoval Vega, B. E., & Hernández Briseño, V. (2018). Aprendizaje basado en Problemas: Una Alternativa para la Creación de Situaciones de Aprendizaje Orientadas a una Educación Ambiental Activa.			
	 Losada, M. M. V., Rodríguez, U. P., Lires, M. M. Á., & Lires, F. J. Á. (2013). El aprendizaje basado en problemas como propuesta didáctica de educación ambiental para la sostenibilidad en formación inicial de profesorado. Enseñanza de las ciencias: revista de investigación y experiencias didácticas, (Extra), 3618-3623. 			
	• Perrault, E. K., & Albert, C. A. (2018). Utilizing project-based learning to increase sustainability attitudes among students. Applied Environmental Education & Communication, 17(2), 96-105.			