Curricular Unit Form





Updated On	2024/02/19										
Curricular Year / Period	2023/24 / S1										
Course	Tourism										
Curricular Unit	Technologies Applied to Tourism										
Language(s) of Instruction	Português										
ECTS/tempo de trabalho (horas)	ECTS	Total	Horas de contacto semestral								
	6	150	т	ТР	PL	S	тс	E	0	ОТ	EC
			0	60	15	0	0	0	0	15	0
	T - Theoretical; TP - Theoretical and practical; LP - Laboratory Practice; S - Seminar; TG - Tutorial guidance; FW - Fieldwork; T - Training; ; EC - Clinical teaching; O* - Other hours typified as Clinical Training under the Directive 77/453/EEC of June 27, adapted by Directive 2005/36/EC.										
Teacher in charge (GDPR consent) [complete name, email]	Maria Gorete Ferreira Dinis / gdinis@ipportalegre.pt										
Other teachers (GDPR consent) [complete name, email]	João Pedro Vaz Pinheiro Estevão / joao.estevao@ipportalegre.pt										
Prerequisites											
[Curricular Units that must precede and specific entry competences]											
Learning outcomes [Description of the overall and specific objectives] [Knowledge, skills and ompetences to be developed by students]	 Know the importance and impact of information and communication technologies (ICT) in the tourism sector. Develop students' knowledge of ICT that can be used in tourism. Know the new intermediaries in the online tourist distribution. Understand the use of social networks by tourist organizations and the relevance of user generated content in tourism Contribute to clarifying internet security issues. Acquisition of a set of knowledge that allows the student to apply geographic information data in order to support the dissemination and management of tourism resources. 										
Sustainable Developemnt Goals	4 QUALITY EDUCATION	8]	DECENT WORK AN ECONOMIC GROV	ID 11 SUS		CONSL	NSIBLE IMPTION RODUCTION				
Syllabus	1. Impact a agents. 2. ICT in T 2.2. Intern 2.3. Globa 2.4. E-Tou 2.4.1 Inter 2.4.2 Plan 2.4.3 Sust 2.4.4 Visite concepts 2.4.5 Prox informatic 2.5. Comn 2.6. Online 2.7. Augm 2.8 Geogr 2.8.1.GPS	ourism et and To I Distribu- irism as a pretation ning touris ainability: or guidan for tourist imity mar on about a nunication e commen ented and aphic Info	burism tion Syste transforr of attracti st experie Tourism ce: Mobile tinformati keting for attractions network rce (e-con d virtual re prmation T	ms (GDS ner of des ons: virtu ences: TIC Flow and applicat on points compani s and mo nmerce a eality echnolog	s) atinations al and au G applied Hotel En ions for to es and de bile applio nd m-com	gmented to tourisr ergy Pre- purist des estination cations imerce)	reality n and Dea dictors tinations,	stination	Managen ve signag	nent Syste	ems ovative







	 2.8.2. Desktop Mapping Digital Cartography Systems 2.8.3 Mapping and geolocation tools 2.8.4. Practical application of TIG in Tourism 2.9. Other digital technologies relevant to the sector 3. Online tourism distribution platforms 3.1. Online booking centers 3.2. Virtual travel agencies 3.3 Tourism search aggregators 3.4 Destination Management Systems (DMS) 4. Social networks and user-generated content 5. Artificial intelligence, robotics and future challenges for human resources in tourism 6. Technologies to support the internal management of smart tourist destinations
Teaching methodologies (including assessment) [Specify the types of assessment and the weights and evaluation criteria]	 1 - Teaching methodologies The curricular unit is structured into theoretical-practical classes (60 hours), laboratory practices (15) and tutorial guidance (15 hours). In theoretical-practical classes and laboratory practice, active non-directive methods are preferred, leading to progressive learning. To this end, fundamental knowledge is presented, case studies and good practices are analyzed. Students will be offered practical exercises on the application of technologies to tourism, the design of informative content for digital platforms, and direct contact with the use of technologies through study visits. Field trips will also be carried out to collect information to be published on digital platforms. The tutorial classes focus on clarifying doubts, encouraging dialogue, group dynamics and the application of the knowledge acquired when carrying out practical work. 2 - Period assessment Approval in the curricular unit by continuous assessment results from: 1 Individual knowledge assessment test - 50%; Group works - 45%; Participation, commitment and attendance in class-5%. 3 - Examination assessement Assessment by exam (100%)
Bibliography	 1 - Main Bibliography 1. Bibliografia Principal Baggio, R., & Fuchs, M. (2018). Network Science and E-tourism. Springer. Bahaire T., Elliot-White M. (1999) The application of Geographical Information Systems (GIS) in sustainable tourism planning. A review. Journal of Sustainable Tourism, 7(2): 159-174. Benckendorff, P. J., Xiang, Z., & Sheldon, P. J. (2019). Tourism Information Technology. Cabi. Burrough, P.A., McDonnell, R.A. (1998). Principles of Geographical Information Systems. Oxford University Press. Oxford. Buhalis D. (2003). eTourism, information technology for strategic tourism management. Prentice Hall. Estêvão, J. V., Teixeira, L., & Carneiro, M. J. (2022). The relevance of destination management systems functionalities: A model based on stakeholders view. Journal of Organizational Computing and Electronic Commerce, 32(1), 21-44. Estêvão, J. V., Carneiro, M. J., & Teixeira L. (2020). Destination Management Systems: Key distinctive functionalities aimed at visitors and destination suppliers. Journal of Global Information Technology Management, 23(4), 292-325. Estêvão, J. V., Carneiro, M. J., & Teixeira, L. (2020). Destination management systems adoption and management model: Proposal of a framework. Journal of Organizational Computing and Electronic Commerce, 30(2), 89-110.



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	Gajdošík, T. (2022). Smart tourism destination governance: technology and design-based approach. Routledge.						
	Hall, C. M., & Williams, A. M. (2019). Tourism and Innovation. Routledge.						
	Inkpen G. (1998). Information Technology for Travel and Tourism, 2nd edition. Addison Wesley Longman Limited.						
	Moniz, A. (2018). Robótica e Trabalho - O Futuro Hoje. Glaciar.						
	Milheiro, E., Melo, C. & Dinis, G. (2018). Turismo e Redes Sociais: Uma Análise Comparativa da Comunicação das DMO no Facebook. Atas do 2º Congresso Internacional de Redes Sociais CIReS. Redes Sociais: Perspetivas e Desafios Emergentes nas Sociedades Contemporâneas, dezembro, Évora: CICS.NOVA Centro Interdisciplinar de Ciências Sociais (ISBN: 978-989-99782-7-0)						
	Milheiro E., Lima V. (2006). O Ordenamento Turístico em Áreas Protegidas e os Sistemas de Informação Geográfica. Atas do 12º congresso da APDR Recursos, Ordenamento e Desenvolvimento.						
	Nick M., Gemma H., Paul A., Gary P. (2012). Representing, Modeling, and Visualizing the Natural Environment (Innovations in GIS). CRC Press						
	Oliveira, A. (2019). Inteligência Artificial de Arlindo Oliveira. Fundação Francisco Manuel dos Santos.						
	Sigala, M., & Gretzel, U. (Eds.). (2017). Advances in Social Media for Travel, Tourism and Hospitality: New Perspectives, Practice and Cases. Routledge.						
	Sigala, M., Rahimi, R. & Thelwall, M. (Eds.) .(2019). Big Data and Innovation in Tourism and Hospitality: approaches, techniques and applications. Springer Nature.						
	Sheldon P. (1997). Tourism Information Technology. Cabi International. Stienmetz, J. L., Ferrer-Rosell, B., & Massimo, D. (2022). Information and Communication Technologies in Tourism 2022: Proceedings of the ENTER 2022 ETourism Conference, January 11-14, 2022 (p. 507). Springer Nature.						
	Wörndl, W., Koo, C., & Stienmetz, J. L. (Eds.). (2021). Information and Communication Technologies in Tourism 2021: Proceedings of the ENTER 2021 eTourism Conference, January 1922, 2021. Springer Nature. Xiang, Z., & Fesenmaier, D. R. (2017). Analytics in Smart Tourism Design: Concepts and Methods.						
	Springer International Publishing.						
	2 - Complementary Bibliography						
	Revista Turismo & Desenvolvimento Revista Marcas y Turismo - Artículos y Noticias de Marketing y Tecnología para la industria de Turismo Revista Publituris Tecnohotel (https://www.tecnohotelnews.com)						
	1 - Period assessment - Students with special status						
Special Situations [Students with special status]							
	2 - Examination assessement - Students with special status						