DIGITAL HUMANITIES (LM70)

(Università degli Studi)

Teaching VIRTUAL AND AUGMENTED REALITY APPLICATIONS GenCod A004196 Owner professor Lucio Tommaso DE PAOLIS	Teaching in italian VIRTUAL AND AUGMENTED REALITY APPLICATIONS	Course year 2
	Teaching VIRTUAL AND AUGMENTED REALITY APPLICATIONS	Language ENGLISH Curriculum COMUNE/GENERICO
	SSD code ING-INF/05	
	Reference course DIGITAL HUMANITIES	
	Course type Laurea Magistrale	Location
	Credits 9.0	Semester Second Semester
	Teaching hours Front activity hours: 63.0	Exam type Oral
	For enrolled in 2020/2021	Assessment Final grade
	Taught in 2021/2022	Course timetable https://easyroom.unisalento.it/Orario
BRIEF COURSE DESCRIPTION	The course presents a review of current Virtual Retechnologies and provides a detailed analysis of the scient The course also will introduce to the 3D modelling and applications.	tific and functional aspects of VR systems.
REQUIREMENTS	no requirements	
COURSE AIMS	Students will be acquired knowledge in the main applica heritage.	tion of VR and AR technologies in cultural
TEACHING METHODOLOGY	The teaching consists of theoretical and practical lectures	i.
ASSESSMENT TYPE	The final exam consists in the discussion on the project de	eveloped by the student.
FULL SYLLABUS	 Introduction to the Virtual Reality technology 	

- Visualization devices
- Interaction in the virtual environment
- Introduction to the Augmented Reality technology
- Marker-based and markerless augmented reality applications
- Virtual and Augmented Reality in Cultural Heritage
- 3D modeling Blender
- Spatial augmented reality (video mapping)
- Practical lectures in laboratory



REFERENCE TEXT BOOKS	MONTAGNA L., Realtà Virtuale e Realtà Aumentata, Hoepli, 2018 MANIELLO D., Realtà aumentata in spazi pubblici. Tecniche base di video mapping, Le Penseur, 2014
	MANIELLO D., AUGMENTED HERITAGE: dall'oggetto esposto all'oggetto narrato, Edizioni Le Penseur SIDDI F., Grafica 3D con Blender, Apogeo, 2009