Human Cognition and Virtual Reality (A31) - PROGRAMMA A.A. 2016/2017

	Nome Corso				
	Human Cognition and Virtual F				
Docente:	Iachini Santa		SSD: M/PSI-01		
	Ore di lezione: 42	6 CFU	Lingua: english		
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Prerequisiti:	Basic concepts of general psychology				
Contenuti del	The course aims at providing provide the basics for understanding of VR scenarios and applications.				
corso:					
	It will focus on the various shades of the "Virtual Reality" concept and its main formats				
	(e.g. Augmented Reality and Immersive Virtual Reality) in comparison with perceptual, emotional				
	and cognitive processes in the natural world. In this perspective, the main devices supporting VR				
	(such as wearable devices and CAVE systems) and various recent human-machine interaction techniques				
	will be analyzed. The concept of "hybrid reality" (embedding of virtual devices and artificial organisms in real world), its effect and potential developments will be discussed.				
Obiettivi Formativi:					
Risultati di	Good knowledge of the fundamental principles of Virtual Reality (VR) and Immersive				
Apprendimento:	Virtual				
	Reality (IVR)				
	Good knowledge of sensorimotor processes in natural and virtual environments				
	Good knowledge of various human-machine interaction paradigms				
<i>Competenze da acquisire:</i>	Ability to apply basic simulation principles for the creation of 3D environments according to				
	specific applied purposes Ability to analyze and devise a multimodal virtual reality project				
	Ability to assess limits and poten	tialities of	VR in relation to actua	l reality	
Attività di	Frontal lectures and case study				
apprendimento					
previste e					
metodologie di					
insegnamento:					
Eventuali					
indicazioni sui materiali di					
studio:					
Sluuio.					

Modalità di frequenza:	Twice a week, three hours each			
Modalità	Written and oral examination Written examination: four-alternative multiple choice test			
d'esame:				
	Oral examination: critical discussion of central topics and scientific papers			
Prove Intercorso:	Multiple choice tests at the ending of each teaching module			
Testi di	Morganti F. & Riva G. (2006). Conoscenza, comunicazione e tecnologia. Aspetti cognitivi			
riferimento:	della realtà virtuale. LED Edizioni Universitarie di Lettere Economia Diritto			
	Slater M. (2009). Place illusion and plausibility can lead to realistic behaviour in			
	immersive virtual environments. Philosophical Transactions of the Royal Society B, 364: 3549-3557.			
	Two articles of your choice among those presented during the course.			
	Foreigner students may choose two more papers instead of the handbook in italian.			