## **DIGITAL HUMANITIES (LM70)**

(Università degli Studi)

Teaching COMPUTER SCIENCE FOR CULTURAL HERITAGE GenCod A004187 Owner professor Francesco TOMMASI		Teaching in italian COMPUTER SCIENCE Course year 1FOR CULTURAL HERITAGETeaching COMPUTER SCIENCE FOR CULTURAL HERITAGESSD code ING-INF/05Language INGLESECurriculum COMUNE/GENERICOReference course DIGITAL HUMANITIES		
				Course type Laurea Magistrale
				Credits 6.0
		<b>Teaching hours</b> Ore-Attivita-frontale: 42.0	Exam type Orale	
		For enrolled in 2021/2022	Assessment Voto-Finale	
		Taught in 2021/2022	<b>Course timetable</b> https://easyroom.unisalento.it/Orario	
BRIEF COURSE DESCRIPTION	- What is an operating system			
	- The UNIX operating system			
	- The shell and the Command Line Interface			
	- Useful UNIX co	mmands and utilities		
	- Scripting langu	ages and their use		
	- Text encoding	– Unicode, UTF8 and related tools		
	- File formats: de	escription and manipulation (text, image,	audio, video)	
	- Network basics	s and main network tools		
	- Computer secu	ırity – digital objects integrity and auther	iticity	
REQUIREMENTS	Familiarity with computers (at least at ECDL level)			
COURSE AIMS	The course aims at providing the students coming from the humanities with the basics of Computer Science. The course is based on UNIX®, because of the popularity of such operating system among professionals.			
TEACHING METHODOLOGY	The course is str	ongly oriented towards a hands-on meh	odology.	



ASSESSMENT TYPE	Writing a bash script aimed at solving a given problem in a given time.		
FULL SYLLABUS	- What is an operating system		
	- The UNIX operating system		
	- The shell and the Command Line Interface		
	- Useful UNIX commands and utilities		
	- Scripting languages and their use		
	- Text encoding – Unicode, UTF8 and related tools		
	- File formats: description and manipulation (text, image, audio, video)		
	- Network basics and main network tools		
	- Computer security – digital objects integrity and authenticity		
REFERENCE TEXT BOOKS	Textbook: All needed reference material is composed, organized and constantly updated by the teacher. The material is made available to students through the course moodle site.		
	Additional, useful references:		
	<ul> <li>Franco Tommasi, Alla scoperta di UNIX, 2021, ISBN 979-1220082204</li> <li>Peek, Todino, Strang, Learning the Unix Operating System, 5th ed. O'Reilly 2001, ISBN 978-0596002619:</li> <li>Newham, Learning the bash Shell, 3rd ed., O'Reilly 2005 ISBN 978-0596009656</li> <li>Cooper, Advanced Bash-Scripting Guide, http://tldp.org/LDP/abs/html/</li> <li>Silberschatz, Galvin, Gagne - Operating System Concepts - Wiley - 9th ed. (2013) - ISBN 978-1118063330</li> </ul>		

