# **DIGITAL HUMANITIES (LM70)**

(Università degli Studi)

Teaching COMPUTER SCIENCE FOR	
CULTURAL HERITAGE	

Teaching in italian COMPUTER SCIENCE Course year 1

FOR CULTURAL HERITAGE

**Teaching** COMPUTER SCIENCE FOR **Language** ENGLISH

CULTURAL HERITAGE

SSD code ING-INF/05 Curriculum COMUNE/GENERICO

GenCod A004187

Owner professor Francesco TOMMASI Reference course DIGITAL HUMANITIES

Course type Laurea Magistrale Location

**Credits** 9.0 **Semester** First Semester

**Teaching hours** Front activity hours:

53.0

Exam type Oral

For enrolled in 2022/2023

**Assessment** Final grade

**Taught in** 2022/2023

Course timetable

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 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

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.

professionals.

TEACHING METHODOLOGY

The course is strongly oriented towards a hands-on mehodology.



## **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:

- Franco Tommasi, Alla scoperta di UNIX, 2021, ISBN 979-1220082204
- Peek, Todino, Strang, *Learning the Unix Operating System*, 5th ed. O'Reilly 2001, ISBN 978-0596002619:
- Newham, Learning the bash Shell, 3rd ed., O'Reilly 2005 ISBN 978-0596009656
- Cooper, Advanced Bash-Scripting Guide, http://tldp.org/LDP/abs/html/
- Silberschatz, Galvin, Gagne *Operating System Concepts* Wiley 9th ed. (2013) ISBN 978-1118063330

