

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 1
FOR CULTURAL HERITAGE

Teaching COMPUTER SCIENCE FOR
CULTURAL HERITAGE

SSD code ING-INF/05

Language INGLESE

Curriculum COMUNE/GENERICO

Reference course DIGITAL HUMANITIES

Course type Laurea Magistrale

Location

Credits 9.0

Semester Primo-Semestre

Teaching hours Ore-Attività-frontale:
63.0

Exam type Orale

For enrolled in 2022/2023

Assessment Voto-Finale

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.

TEACHING METHODOLOGY

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

ASSESSMENT TYPE

Writing a bash script aimed at solving a given problem in a given time.

FULL SYLLABUS

- What is an operating system
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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