

GNU / Linux

SCHOOL Polytech Graduate School of Engineering	CAMPUS Belle-Beille	SEMESTER Fall (S1)
 > Degree course: Graduate School of Engineering - Automation and Computer Engineering > Teaching unit: UE 5.3 Génie informatique > Course language: English > Duration (hours): 20 > ECTS: 2 > Teacher(s): Nicolas Delanoue 		
 Assessment: Continuous assessment Final exam 	Teaching methods:Lecture course8hoursTutorial course12hoursPractical workhours	Case study Project
COURSE DESCRIPTION		

Unix :

- - User and administrator (root)
- - Filesystem and permissions
- - Command for managing files and directories

Shell : flow redirection, pipeline

- - Regular expressions and manipulation of file data
- - Shell scripts
- Python
- Data types, control flow and files
 Python-Unix coupling
- - Interoperability between Python program and Unix commands
- - Graphical user interface and Unix commands
- - Network, web and Unix commands

OBJECTIVES

Knowledge of concepts and commands regarding the Unix operating system. Use of the shell and Python for different activities (e.g. search on the filesystem, file editing, permission modifications, user creation).

PREREQUISITES

algorithmics and programming



SELECTIVE BIBLIOGRAPHY

Introduction to Unix, Jerry Peek, Grace Todino and John Strang, Editions O'Reilly -- Python for Unix and Linux System Administration, Efficient Problem Solving with Python, Noah Gift, Jeremy M. Jones, O'Reilly Media, 2008 -