Hours

Project

Number of positions

EPFL

2 weekly

2 weekly

CS-323(a)	Operating systems implementation					
	Zwaenepoel Willy					
Cursus		Sem.	Туре	Language of	English	
Communication	tion systems		Opt.	teaching	Linglish	
Computer science	nce	BA6	Opt.	Credits Session	4 Summer	
				Semester Exam	Spring During the semester	
				Workload Weeks	120h 14	

Summary

Implementation of basic concepts of operating systems in Linux

Content

Implementation of system calls, interrupt handling, process and memory management and file systems

Keywords

Operating systems implementation, Linux

Learning Prerequisites

Required courses CS-206 Parallelisme and concurrency CS-207 Systems programming CS-323 Operating systems (preferably to be taken concurrently)

Strictly no admission without concurrent or prior CS-323.

Learning Outcomes

By the end of the course, the student must be able to:

• Implement key components of operating systems

Teaching methods

Introduction and discussion of assignments in exercise sessions.

Expected student activities

Attendance at exercise sessions. Implementation of serveral programming projects.

Assessment methods

Programming assignments. Equal value for each assignment.

Supervision

Office hours	Yes
Assistants	Yes
Forum	Yes

Resources

Bibliography

Operating Systems : Three Easy Pieces, R. Arpaci-Dusseau and A. Arpaci-Dusseau (free online book). Linux Kernel Programming, 3rd Edition, R. Love. Slides available on Moodle.

Ressources en bibliothèque

- Linux Kernel Programming / Love
- Operating Systems : Three Easy Pieces / Arpaci-Dusseau