

CS-323

Introduction to operating systems

Delgado Pamela

Cursus	Sem.	Type
Communication systems	BA6	Opt.
Computer science minor	E	Opt.
Computer science	BA6	Obl.
HES - IN	E	Obl.

Language of teaching	English
Credits	3
Session	Summer
Semester	Spring
Exam	During the semester
Workload	90h
Weeks	14
Hours	3 weekly
Courses	2 weekly
Exercises	1 weekly
Number of positions	

Summary

Introduction to basic concepts of operating systems.

Content

Function and general structure of an operating system.
 Process management.
 Memory management.
 File systems.
 Virtualization and virtual machines.

Keywords

Operating systems

Learning Prerequisites**Required courses**

CS-206 Parallelisme and concurrency
 CS-207 Systems programming

Learning Outcomes

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

- Manage key components of operating system

Teaching methods

Lectures and exercises.

Expected student activities

Attendance at lectures and completing exercises.

Assessment methods

Midterm and final during the semester.
 50% midterm, 50% final.

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). Slides available on Moodle.

Ressources en bibliothèque

- [Operating Systems : Three Easy Pieces / Arpaci-Dusseau](#)

Références suggérées par la bibliothèque

- [Operating Systems Concepts / Silberschatz](#)