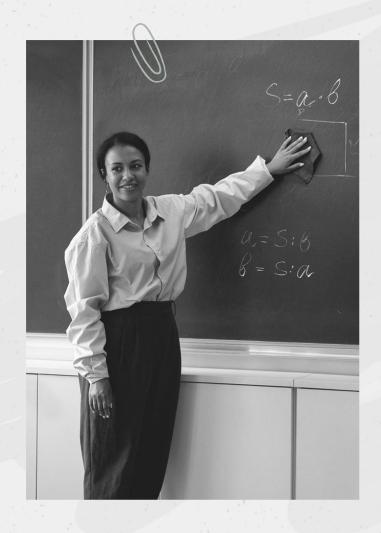
Servicios y Aplicaciones Distribuidas

MUIINF - ETSINF - UPV



Contact

José M. Bernabéu Aubán bernabeu@upv.es

Tutorías bajo demanda

Course Objectives

- Understand main concepts of distributed systems
- Identify approaches to design distributed services
- Develop awareness of main challenges
- Develop practical skills with hands on labs
 E.g., Security, resource optimization, application development

Grading

Theory Exam

25%

Seminars/Lab Exam

25%

Lab Project

Seminar quizes

25%

Calendar & Classes

4.5 credit Theory/Seminars

1.5 credits Labs

Flexible hours in classroom (Tuesdays)

In-classroom

On-line

All Tuesdays

Fridays:

Last class: December 16

Last session: December 16

Mixed theory/Seminars

Mixed Seminars/Labs/Tests

Exams: December 19, during class (remote). Poliformat

Syllabus Preliminary

Topics

01

Foundations

Architectures..., Coordination

03

Security

Approaches, Concepts

02

Deployment

SLA, QoS, Cloud

04

Technologies

NATS, Prometheus, STEP, APISIX, Docker

Labs

Design, Implement, Deploy

What

- Simple illustrative service
- Integrate some software pieces
 - Queues
 - Inverse proxy
 - Authenticator
- Development

How

- Groups of 3
- Typescript/ Golang
- Use git
 - Hand in complete repo in tgz format

Technologies

Typescript/Golang

Implementation

Docker

Packaging for deployment

Git

Project development

VSCode

Editing

QUIZ

Quienes

Informática

- Otros
- 2 2 2 2 2

Typescript

- Nivel

Git

- Requerido para Desarrollo y entrega

Trabajo

- Full time?

Golang

- Nivel

Linux

- Aconsejable para desarrollo