

# Introduction to the Course

Coherence, Resources and Agreements



Universidad de  
**La Sabana**

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FACULTAD DE INGENIERÍA



# Coherence

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# Structure of course/module

- Purpose: WHY
- Definitions/Scope: WHAT
- Types: TO WHAT EXTEND
- Design/Method/Pattern: HOW
- Players: TO WHOM

# To whom

- IT People with experience on:
  - Curious and Discipline: Read IT topics on several sources and plan its works.
  - Cloud: Knowledge on AWS (EC2, ECS, CodePipeline, CodeDeploy) and Docker. Course on this MSc (Arquitecturas en la Nube).
  - Database: Knowledge on NoSQL DB Design. Course on this MSc (Diseño y Optimización de Bases de Datos).
  - Development: AWS Labs use Node. At least one modern language (i.e. Python, Go, Java, Clojure).
  - Usage of GenAI Tools for specific tasks only: Generate synthetic data.

# What

- Estilos y Patrones Arquitectonicos
  - Microservicios
  - Sistemas Distribuidos
  - Liderazgo
- Grafico de diferentes diagramas, detalle hacia gran diagrama
  - Un solo diagrama
  - Un solo diagrama
  - Una persona con estrellita

# To what extend

- Estilos y Patrones Arquitectonicos
  - Microservicios
  - Sistemas Distribuidos
  - Liderazgo
- Libros: SAIp, FoSA,, Azure
  - Libros: Mfowler, Richardson, FoSA, Azure, AWS,
  - Libros: Kleppman, SAIp, AWS; Hadoop
  - Libros: SAIp, FoSA, Richards-Katas,

# Why

Toy Soldiers - Sargent !

Persona preocupada -To be easy  
life for the next *Pachito*!

DaVinci - Ambiguity !

- To set responsibilities of an architect role.

- To apply proven (industry) methods to solve problems.

- To learn how to make good things (best practices), possible things (constraints) and control exceptions (antipatterns).
  - Empirical Path:  
Majors on: Computer Science, Electronics, Engineering, Economics, etc.  
Start from Developers, Infrastructure, Operations, Security, etc.  
Experience from Development Companies, IT Specialized Outsourcing.

Academic Path:

Software Engineering, Requirements Engineering  
Software Architecture, Enterprise Architecture

# How

- Labs and reflexive written.
- 1: Styles and Patterns (20%). Doc
- 2: Microservices (50%). Doc & shifts to run review scripts.
- 4: Distributed systems (15%). Doc & shifts to run scripts.
- 5: Arch Leadership (15%): Docs (2)

- ETA: 3<sup>rd</sup> Class
- ETA: 5<sup>th</sup> Class
- ETA: 6<sup>th</sup> Class
- ETA: 7<sup>th</sup> Class

Proposals to run shifts:

Mondays at 5 pm  
Thursdays at 5 pm  
Fridays at 5 pm



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# Resources

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References on  
GitHub or on each  
slide

01

**Unisabana Plus**

01

**GitHub**

# Resources

MS Teams



01

**Oreilly**

01

**AWS Academy**

# AWS Academy

- Pipelines on Task 2
- Sandbox from previous Course
- Take care of these courses has an end date.

The background of the slide features a photograph of bright orange flowers with dark centers in the foreground, and a multi-story building with a grid of windows in the background. A large, solid dark blue rectangle is positioned on the right side of the slide, serving as a backdrop for the text.

# Agreements

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# My Own Style to communicate

Simplicity

Well-Structured

Well-Structured

Mindmaps

Context Maps

Lists

# Deadlines

AWS Academy issues: Create support the ticket directly and keep inform the professor. AWS Academy will need all screenshots.

Extra Time with regular process **only**: Review with University Point-of-Contact the procedure and evidences.



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## **CONTACTO**

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