

CIHAN UNIVERSITY/SULIMANIA, ARCHITECTURAL DEPT.

THIRD YEAR 2023-2024

FIRST SEMESTER LECTURE 1

# Logic and Design Methodology

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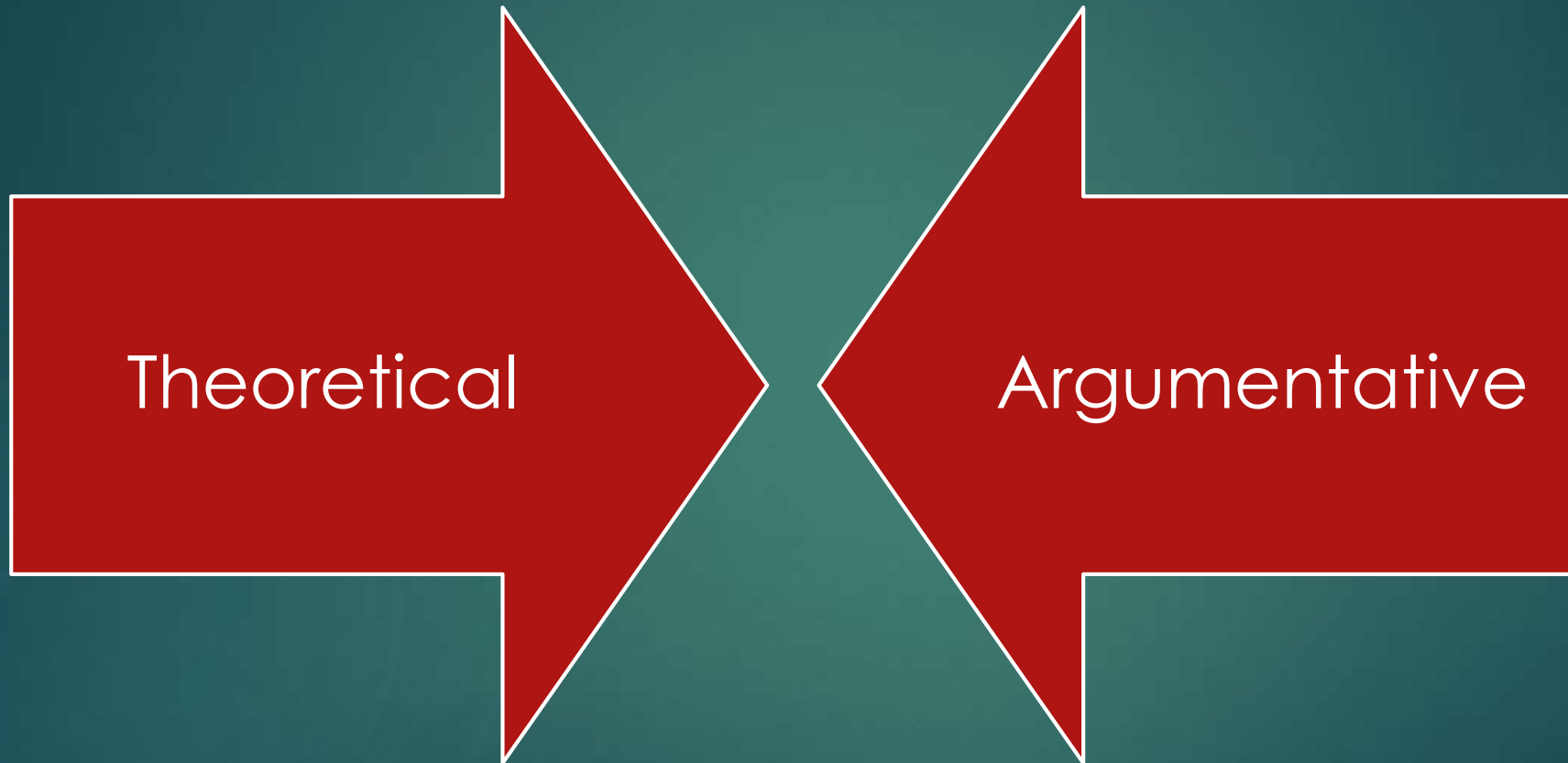
# Structure



# Goals

- ▶ To clear architecture as a cognitive process and how can architect solve their problems.
- ▶ To construct a adequate information base for understanding the architectural decision making.
- ▶ To formulate the science bases of architectural profession
- ▶ To know different methods that architect use to do their work.
- ▶ To be familiar with term deal with the subjects.

# Nature of the subject



# Logic

## 6 Lectures

- ▶ Definitions, tools, types, cognitive cycle, interpretation of thinking processes.
- ▶ Thinking in architecture
- ▶ Logic, logical thinking (reasoning), tools and procedures.
- ▶ Logical inference types Deduction and Induction
- ▶ Analogy in logic and analogy in architecture
- ▶ Logical thinking in architecture

# Design Methodology

## 6 Lectures

- ▶ Philosophy, Epistemology, and Methodology
- ▶ The role of methodology in architecture
- ▶ Black box methods
- ▶ Glass box methods
- ▶ Mixed methods
- ▶ Concept in architecture

# Outcome

Think reasonably

Concept generation

Analyses, Synthesis, Evaluation

# To know how to:

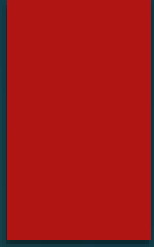
- ▶ Understand what we are reading
- ▶ Understand what we are hearing
- ▶ Understand what we are seeing



# comprehension



To apply our comprehension into:



- ▶ Life
- ▶ Work
- ▶ Abilities
- ▶ Skills



**Knowledge**

# Assessment and marks breakdown

