

**University of Biskra** 2024-2025



# Building Physics

**LEVEL: 1 YEAR BACHELOR**

**SPECIALTY: COP**

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**AN INTRODUCTION  
TO BUILDING PHYSICS**



# Art 1: role of building physics

- *Several disciplines play different roles in the process of designing and constructing buildings.*
- *On the basis of this idea, establish the corresponding link between the roles of each discipline.*

<b>Roles</b>	<b>Disciplines</b>
Structural Integrity	Architecture
Aesthetics	Civil Engineering
Occupant Living Conditions	Building Physics
Interaction between indoor and outdoor environments	Architecture
Spatial Functionality	Civil Engineering



## **Part 2: Key requirements related to building Physics**

- Building physics deals with various criteria. It is considered the science of the interaction of energy with the materials contained in a building's envelope.
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- Based on this idea, list (5) requirements addressed by this discipline.



## Solution:

Building physics addresses, on one hand, requirements related to **comfort, health, and wellbeing**, and on the other hand, it addresses requirements related to **architecture, material usage, economy, and sustainability**.

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1. **comfort,**
  2. **health, and wellbeing,**
  3. **architecture,**
  4. **material usage,**
  5. **economy, and sustainability.**



## Part 3: Main terms

1. Building,
2. building physics energy,
3. sustainability,
4. building material,
5. comfort,
6. envelope.

**students should memorize  
these terms (in English)**

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***Merci pour votre***

***Attention***



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