

Open Courses • Lisboa

# STRUCTURAL HEALTH MONITORING



## Direction

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## Secretariat

## Duration

0 Anos

## Credits

5 ects

## Presentation

This course introduces the concept of structural health monitoring (SHM) applied to bridges and special structures to graduated students. The SHM is posed in the context of a statistical pattern recognition paradigm, rooted in the artificial intelligence field, where machine learning algorithms are essential to perform damage identification, by learning the structural behavior from past data. In order to balance the general concept and the applicability of SHM, this course has been designed to allow students to gain a basic knowledge of SHM with hands-on experiences to demonstrate how SHM can be used for assessing the condition of structural systems, along with the lectures to give some insight into the and application examples.

# STUDY PLAN

## 1st Year / No Branch Name

Anual	ects	
No Name		5

Linha direta  
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