

# CONTROLE ET ANALYSE MULTIREOLUTION



Component  
École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique  
d'Informatique  
d'Hydraulique  
et des  
Télécommunications

## In brief

- > **plugin.odf-inp:PLUGINS\_ODF\_COURSE\_NBHOURS\_TXT:** 50
- > **Code:** N8EN05

## Presentation

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### Objectives

In the first course about optimal control, we introduce the Pontryagin maximum principle and the associated numerical shooting methods to solve optimal control problems. The second course introduces Hilbert spaces and presents applications in data science (RKHS and wavelet).

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### Pre-requisites

Linear algebra

Integration

Optimization

Differential equation

## Useful info

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### Place

› Toulouse