

# Introduction à la Microfluidique



Component  
École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique

## In brief

- **plugin.odf-inp:PLUGINS\_ODF\_COURSE\_NBHOURS\_TXT:** 12,5
- **Ametys Code:** N8EM07A

## Presentation

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### Objectives

Present important and useful concepts to microfluidics focusing on small scale hydrodynamics and the effect of surface forces on Stokes flows.

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### Description

1. Introduction: MEMS to microfluidics
  2. Physics at the micrometric scale
  3. Hydrodynamics of microfluidic systems
  4. Interfacial hydrodynamics
  5. BE: Microfabrication - Applications
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### Pre-requisites

Meca Fluides 1 et 2