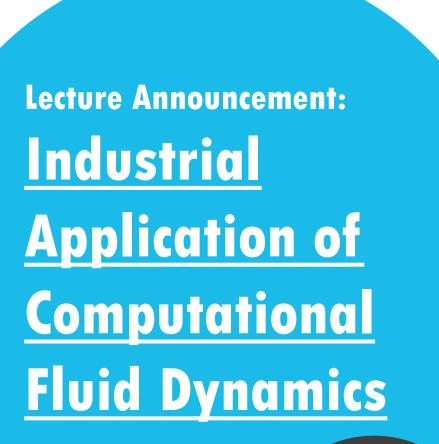


# Universität Stuttgart

Institut für Chemische Verfahrenstechnik



Tuesdays 08:30 — 13:30 Room 4.014 Böblinger Str. 78

### **Scheduled Lecture Sessions:**

- 29.10.2019 08:30 13:30
- 05.11.2019 08:30 13:30
- 12.11.2019 08:30 13:30
- 19.11.2019 08:30 13:30

## Syllabus:

- > What is CFD? Why use CFD?
- CFD Analysis Process
- Equations of Fluid Mechanics
- Turbulent Flows DNS, LES, RANS
- > Multiphase Flows
- Using a Commercial Software ANSYS FLUENT
  - Prerequisites
  - Problem Description
  - Creating and Meshing the Geometry
  - Setup CFD Simulation and Domain
  - Setup Physics
  - > Solvers
  - Post-Processing

### Lecturer:

### Dr. Mostafa S. Shadloo (INSA Roven)

 Associate Professor at National Institute of Applied Science (INSA) Rouen, France (since 2015)



- 26.11.2019 08:30 13:30
- 03.12.2019 08:30 13:30

The lecture is primarily aimed at students in the M.Sc. Process Engineering curriculum and similar, as well as PhD students

Full details on ECTS / curriculum crediting to follow!

Further Information: Mostafa S. Shadloo (mostafa.safdari-shadloo@insa-rouen.fr) and on www.icvt.uni-stuttgart.de

Fields of Interest: Hydrodynamics, Turbulence, Multiphase, Multi-physics Fluid Flows and Heat Transfer

