

# EU MHD School

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# Topics

- Basic Electromagnetism+ advanced Fluid mechanics (?)
- **Fluid dynamics** : Hartmann flows, turbulence, interfacial instabilities...
- **Energy** : Energy conversion, Thermoacoustic, Fusion...
- **Mass transfer** : Electrochemistry, Corrosion
- **Numerical simulations**: E-potential, Induction equation, A-phi method..
- **Metallurgical applications**: EM Brake, EM stirring...

## Who should participate?

- This **one-week course** held in English will be designed **for students, engineers and scientists from industry and research centers** who wish to improve their knowledge in the field of MHD.
- Participants should have a degree in materials science, mechanical engineering, physics or chemistry.

# 3 concepts

- **Once a year:** Full week organized somewhere (not at the same time as Pamir conf., Cost: ?)
  - + : progressive, interactions between the participants and the lecturers
  - : intense, COVID-19
- **Online once a year:** Full week
- **Online weekly lectures:** 2 hours on a selected topic
  - + : easier to digest
  - + : Basics might not be assimilated by new participants