

Prof. Dr.- Ing. habil. Dieter Liepsch

Course title: Advanced Fluid Mechanics (II)

Hours per week: 4

Number of ECTS Credits allocated/work load: 4

Semester: 6 + 8

Course contents:

**Introduction to flow, velocity and pressure measurements techniques
Theoretical and practical studies**

Flow meters for internal and external flows

Orifice plate

Flow nozzle

Venturi tube

Optical methods:

LDA

Two phase Doppler anemometer

Two focus laser anemometer

Particle image velocimetry

Ultrasound and magnetic-induction flow meters

Flow visualization techniques in fluids gas and liquids

Goal: Introduction to the instrumentation and procedures for flow, velocity and pressure measurement instrument. Flow visualization techniques.

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