



**Announcement
Wintersemester 2023/2024**

Firing Systems and Flue Gas Cleaning

4 SWS (3 lecture + 1 exercise)

LV-No. 610701003

Lecturer: Univ.-Prof. Dr. techn. G. Scheffknecht

Assistant lecturer: M.Sc. Nico Mader

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Time: Wednesday, 08:00 – 11:15 h

Start: 18.10.2023

Site: V 23.01

Content of the lecture:

I: Combustion and Firing Systems:

- Fuel types, fuel properties, fuel analyses
- Combustion fundamentals, aerodynamics, diffusion and kinetics, mass and energy balances
- Firing systems - overview and applications
- Gasification systems - overview and applications

II: Flue Gas Cleaning:

- Environmental effects of combustion
- Greenhouse gas emissions
- Products of incomplete combustion
- Removal of particulate matter
- Sulphur removal
- Nitrogen oxide reduction
- Destruction and removal of other pollutants