



Lehrveranstaltungsankündigung - Sommersemester 2024

Thermal Waste Treatment

LV 6108000001(2SSt VO)

Dozent:	Dr.-Ing. H.-J. Gehrman
Vorlesungsbetreuung:	M.Sc. Abdou Suso Tel.: 0711/685-63391, absou.suso@ifk.uni-stuttgart.de
Vorlesungszeit:	Mittwoch, 11:30 – 13:00 Uhr & 14:00 – 15:30
Vorlesungsbeginn:	10.04.2024
Ort:	IFK, Pfaffenwaldring 23, Seminarraum S 0.38

Inhalt der Vorlesung:

In addition to an overview about the waste treatment possibilities the students get a detailed insight to the different kinds of thermal waste treatment. The legal aspects for thermal treatment plants regarding operation of the plants and emission limits are part of the lecture as well as the basic combustion processes and calculations.

Thermal Waste Treatment (Lecture: 2SSt)

- Legal and administrative aspects of thermal waste treatment
- Trends in waste production
- Trends and development of thermal waste treatment
- Thermal conversion technologies for waste treatment (pyrolysis, gasification, combustion)
- General overview of air pollution control devices
- Monitoring and process control systems
- Calculations concerning waste combustion

Excursion (8 h): to a Thermal Waste Treatment Plant – **either 12.07.2024 or 19.07.2024** to WtE plant in Göppingen or Hazardous Waste Incineration at BASF Ludwigshafen.

Dr.-Ing. H.-J. Gehrman