



Announcement – Summer Semester 2024

Measurement of Air Pollutants Part I

SWS: 1, LV 610800003

Dozent:	Dr.-Ing. U. Vogt
Vorlesungszeit / Time:	Monday, 3:45 p.m. – 5:15 p.m. Tuesday, 3:45 p.m. – 5:15 p.m.
Dates for lectures:	22.04.2024 – 02.07.2024 (weekly)
Ort / site:	IFK, Pfaffenwaldring 23, Hörsaal V 23.01

Content of lectures:

Measurement tasks:

- Discontinuous and continuous measurement techniques, different requirements for emission and ambient air measurements

Measurement principles for gases:

- IR- and UV Photometer, Colorimetry, UV fluorescence, Chemiluminescence, Flame Ionisation, Potentiometry,

Measurement principle for Particulate Matter (PM):

- Gravimetry, Optical methods, Electrical methods, Particle size distribution, PM deposition, PM composition
- Assessment of measured values
- data storage and processing
- graphical presentation of data

Measurement principle for meteorological parameter:

- Temperature, humidity, radiation, pressure, wind speed and direction