



Biogas	
Course number	7203
Hours per week:	4
ECTS:	5
Scheduled:	Winter term
Format:	Lecture
Examination:	Written exam
Lecturer:	Prof. Dr. Kilian Hartmann
Objectives:	The students know and understand the biology and process of biogas generation. They know the state-of-the-art of biogas systems and their application in renewable energy based systems. They know power, heat, and gas systems based on biogas generation.
Contents:	<ul style="list-style-type: none">• Biology of anaerobe systems• Process engineering of biogas plants• Feed stock• Biogas upgrading and feed-in to the gas grid• Use scenarios for power, heat and gas supply
Pre-requisites	none
Recommended Reading:	<ul style="list-style-type: none">• Wellinger A., Murphy J., Baxter D. (2013): The Biogas Handbook – Science, Production and Applications, Woodhead Publishing, 978-0-85709-498-8