

<b>Modulbezeichnung</b>	<b>Water - anaerobic processes (Wasser - anaerobe Prozesse)</b>	
<b>Semester</b>	WPM	
<b>ECTS-Punkte (Dauer)</b>	5 (1 Semester)	
<b>Art</b>	Wahlpflichtmodul	
<b>Studentische Arbeitsbelastung</b>	45 h Kontaktzeit + 105 h Selbststudium	
<b>Voraussetzungen (laut MPO)</b>		
<b>Empf. Voraussetzungen</b>		
<b>Verwendbarkeit</b>	MaALS	
<b>Prüfungsform und -dauer</b>	Exam 1,5 h or oral examination	
<b>Lehr- und Lernmethoden</b>	Lecture, practical course	
<b>Modulverantwortlicher</b>	R. Habermann	
<b>Qualifikationsziele</b>	<p>The Students understand the anaerobic processes of wastewater treatment (e.g. UASB reactor) and sludge decomposition (digestion tower). They control the biological fundamentals of anaerobic degradation. They know the structure and function of biogas plants and different types of digestion towers.</p>	
<b>Lehrinhalte</b>	<p>The students learn the basics about the anaerobic wastewater treatment, the conversion of waste activated sludge in the digestion tower and of organic substrates in biogas plants. They know factors that influence the biological degradation reactions. Furthermore, they will be enabled to lay digestion towers out and to estimate the biogas amount.</p>	
<b>Literatur</b>	<p>Leschber, R.; Loll, U.: ATV-Handbuch: Klärschlamm, Ernst&amp;Sohn-Verlag, Berlin, 1996  C. P. Leslie Grady e.a.: Biological wastewater treatment, London : IWA Publ. ; Boca Raton, Fla. [u.a.] : CRC Press, 2011  M. Henze e.a.: Wastewater Treatment, second Edition, Springer, Berlin ; Heidelberg ; New York, 1997</p>	
<b>Lehrveranstaltungen</b>		
<b>Dozent</b>	<b>Titel der Lehrveranstaltung</b>	<b>SWS</b>
R. Habermann	Anaerobic processes of water and sludge	2
R. Habermann	Practical course anaerobic processes	1