

Modulbezeichnung	Biodegradability and Environmental Impact	
Semester (Häufigkeit)	WPM (nach Bedarf)	
ECTS-Punkte (Dauer)	6 (1 Semester)	
Art	Wahlpflichtmodul	
Sprache(n)	English	
Studentische Arbeitsbelastung	60 h Kontaktzeit + 90 h Selbststudium	
Voraussetzungen (laut MPO)		
Empf. Voraussetzungen		
Verwendbarkeit	MTCE	
Prüfungsart und -dauer	Vorlesung: Klausur 1h oder mündliche Prüfung und Referat (40 Minuten) (Prüfungsleistung) / written exam 1 h or oral exam and presentation (40 minutes)	
Lehr- und Lernmethoden	Vorlesung und Seminar / Lecture and Seminar	
Modulverantwortliche(r)	C. Gallert	
<p>Qualifikationsziele The students will be able ...</p> <ul style="list-style-type: none"> • to know principles of Environmental Impact Assessment • to distinguish between different biodegradation tests according to respective standard protocols • to evaluate the result of such biodegradation tests <p>by...</p> <ul style="list-style-type: none"> • searching respective methodological information (e.g. according to OECD or similar) • comparison of biodegradability results from different commercial products available from literature or by own search in shops, stores, etc. <p>to ...</p> <ul style="list-style-type: none"> • relate 'biodegradability' and possible impact of products from daily life onto different environmental compartments • implement a biodegradability test protocol of a product of interest according to respective standards 		
<p>Lehrinhalte Objectives, methods, steps and tools of EIA and biodegradability tests, respective regulations, methodological overview, biochemical background information</p>		
<p>Literatur Magnus Fröhling, Michael Hiete (eds.): Sustainability and Life Cycle Assessment in Industrial Biotechnology, Springer Nature Switzerland AG, 2020. James T. Maughan: Environmental Impact Analysis: Process and Methods, CRC Press, Boca Raton, 2013. ISO- and OECD guidelines</p>		
Lehrveranstaltungen		
Dozenten/-innen	Titel der Lehrveranstaltung	SWS
C. Gallert	Biodegradability and Environmental Impact: Lecture	2
C. Gallert	Biodegradability and Environmental Impact: Seminar	2