

Modulbezeichnung	Solid Waste and Recycling	
Semester (Häufigkeit)	WPM (nach Bedarf)	
ECTS-Punkte (Dauer)	6 (1 Semester)	
Art	Wahlpflichtmodul	
Sprache(n)	English	
Studentische Arbeitsbelastung	60 h Kontaktzeit + 120 h Selbststudium	
Voraussetzungen (laut MPO)	N/A	
Empf. Voraussetzungen	N/A	
Verwendbarkeit	MTCE	
Prüfungsart und -dauer	Written exam 1,0 h or oral exam and project draft (15 - 20 pages) (academic assessment)	
Lehr- und Lernmethoden	Lecture and project	
Modulverantwortliche(r)	R. Habermann	
Qualifikationsziele After completing the module, students will be able to ... • identify the legal framework for the treatment of solid waste and to implement it in action measures. • analyze and synthesize the concepts of waste collection • record the function of selected plant components for waste processing, delimit their areas of application and develop plant concepts for the processing of solid waste by ... • analysing the relevant legal framework and working out requirements on the recycling procedure • designing concepts for solid waste collection • drafting a rough plant design for solid waste recycling of a study case in order to ... • analyse existing recycling plants for debottlenecking and optimisation • determine approximate capacity expansions of plant sections • describe the qualitative and quantitative requirements of a recycling plant in communication with a recycling plant manufacturer		
Lehrinhalte Terms and definitions of legal framework for solid waste recycling, concepts for solid waste collection, fundamentals of preparation and sorting of solid multi-component waste, machines and apparatus for solid waste recycling, procedural plant concepts and economic aspects.		
Literatur Lecture manuscript and supplementary material Technical literature G. Tchobanoglous, F. Kreith: Handbook of Solid Waste Management, McGraw-Hill, New York, 2002		
Lehrveranstaltungen		
Dozenten/-innen	Titel der Lehrveranstaltung	SWS
R. Habermann	Lecture Solid Waste and Recycling	2
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