


Data:	Examination number: -	Version: 18.01.2019 	Start Year: WiSe 2019
Module Name:	<b>Practice of Secondary Raw Materials</b>		
(English):	Practice of Secondary Raw Materials		
Responsible:	<a href="#">Peuker, Urs Alexander / Prof. Dr.-Ing.</a>		
Lecturer(s):	<a href="#">Mitarbeiter des Institutes MVT/AT</a> <a href="#">Peuker, Urs Alexander / Prof. Dr.-Ing.</a>		
Institute(s):	<a href="#">Institute of Mechanical Process Engineering and Mineral Processing</a>		
Duration:	1 Semester(s)		
Competencies:	The students acquire knowledge about typical actual challenges as well as about technical setups and approaches in recycling industry. They are able to connect theoretical knowledge on unit operations to the technical operation of recycling plants. Furthermore the students become familiar with the balancing and business models in secondary raw materials business.		
Contents:	The aim is the teaching of practical insight into secondary raw materials technology and its industrial application. Several established processes for secondary raw materials are introduced by (guest) lectures. This introduction contains the specialties of the material sources and properties, the process design and potential alternatives as well as the key technological components. The lecture also involves demonstration of technology by site visits of recycling plants. (guest) lectures: introduction in several recycling processes, e.g. battery recycling (acid lead battery, lithium-ion battery), aluminium scrap, construction waste, metallurgical waste, WEEE, automotive recycling.		
Literature:	Martens, H. und Goldmann, D.: Recyclingtechnik Scientific publications		
Types of Teaching:	S1 (WS): Lectures (1 SWS) S1 (WS): Seminar (1 SWS) S1 (WS): 4-6 Site visits to relevant production plants connected to course content / Excursion (3 SWS)		
Pre-requisites:	<b>Mandatory:</b> course restricted to students of EMerald program		
Frequency:	yearly in the winter semester		
Requirements for Credit Points:	For the award of credit points it is necessary to pass the module exam. The module exam contains: AP: Report		
Credit Points:	4		
Grade:	The Grade is generated from the examination result(s) with the following weights (w): AP: Report [w: 1]		
Workload:	The workload is 120h. It is the result of 75h attendance and 45h self-studies.		