## Module Card

## Master Resource Efficiency in Architecture and Planning HCU Hamburg

Module Number	Module Name	Type (C/CE/E)	Semester (proposed	Module Coordinator
REAP-M-Mod-201	Urban Material Cycles	C	2.	Prof. Dr. Wolfgang Willkomm
	Subject Area			Duration
Fundamentals and Methods				1 semester
CP (according to ECTS) Contact Hours/Week (St		/Week (SWS)	Self-study	
5 CP (= 150 h workload)		3 (= 31,5 h contact time)		118,5 h
			,	
Objectives and Con				
Objective of Qualification				
-	e basic strategies for sustainable urb	-		
	e of perception, assessment and deci	sion making in t	he field of selec	tion of material related urban
and building	planning procedures.			
Contents				
	into lifecycles, quantities and qualitie		e materials, data	a of waste material quantities
-	s, future development prognosis and			
	materials incl. construction and demo	olition waste, ind	ustrial production	on waste and communal
waste.				
-	of prevention, reduction and recycling	-	-	
	hnology as well as priority order of pro	oduct recycling,	material recyclir	ng with recycling, re-recycling
and downcy	-			
	effects of design, construction, materia		rategical targets	s for optimized solutions on
	, regional, urban, building and detailed	d scale.		
-	or projects and strategies.			
Recommended Liter				
	ristensen (Editor): Solid Waste Techn /ember 2010	ology and Mana	gement, 2 Volu	me Set, ISBN: 978-1-4051-
<ul> <li>Karl J. Thor 2016</li> </ul>	né-Kozmiensky, Stephanie Thiel (Edit	tors): Waste Mai	nagement, ISBN	₩978-3-944310-29-9, ViVis
Teaching and Learni	ng Methods			
Lecture complement	ed by individual student inputs for spe	cific subjects an	d project visits.	
Exam(s)				
Precondition of Exan	nination			
Regular participation	, individual oral input, successful com			
Type of Examination		Duration of Ex	amination (if wr	ritten or oral exam)
term paper (S),Prese				
Composition of Modu				
	tation 25 % final Report 50%			
Additional Informat		and content)		
	/ Conditions for Participation (in form		omolition indus	trial and municipal wasterne
	standing of the physics of building co	nstruction and d	emonuon, indus	anai anu municipal waste ma-
terials. (con	-	na construction	nlonning proces	lurae (contant)
	standing of regional, urban and buildi	ng construction	planning proced	
Applicability of Modu		a attaindair d		
	pletion of this module is required for th	le allendance of	the module RE.	AP-IVI-IVIOQ-204 Project II.
Frequency of Offerin Summerterm	y			
Guillineiteilli				
Course Language				
Course Language English				