

<b>Modulbezeichnung</b>	<b>Introduction to Circular Economy</b>	
<b>Modulbezeichnung (eng.)</b>	Introduction to Circular Economy	
<b>Semester (Häufigkeit)</b>	1 (jedes Sommersemester)	
<b>ECTS-Punkte (Dauer)</b>	6 (1 Semester)	
<b>Art</b>	Pflichtmodul	
<b>Sprache(n)</b>	English	
<b>Studentische Arbeitsbelastung</b>	60 h Kontaktzeit + 120 h Selbststudium	
<b>Voraussetzungen (laut MPO)</b>	keine	
<b>Empf. Voraussetzungen</b>	keine	
<b>Verwendbarkeit</b>	MTCE	
<b>Prüfungsart und -dauer</b>	Lecture: written exam 1,5h or oral exam, Seminar: presentation	
<b>Lehr- und Lernmethoden</b>	Lecture, seminar	
<b>Modulverantwortliche(r)</b>	S. Steinigeweg	
<p><b>Qualifikationsziele</b>            At the end of the module students will be able to</p> <ul style="list-style-type: none"> <li>• classify CE as part of sustainable development</li> <li>• present the current status and developments in Europe and the world</li> <li>• Describe technical solutions to implement CE</li> </ul> <p>by</p> <ul style="list-style-type: none"> <li>• identification of options and barriers to implement CE</li> <li>• apply evaluation approaches (technical, economic, environmental) of CE processes.</li> </ul> <p>in order to</p> <ul style="list-style-type: none"> <li>• enable the use of CE technologies</li> <li>• develop and implement CE compliant processes</li> <li>• introduce CE in companies</li> </ul>		
<p><b>Lehrinhalte</b>            CE is discussed as a concept for achieving SDGs. In addition to administrative and legal framework conditions, the various technologies in particular are presented in a comparative manner. The interdisciplinary concept of CE, which goes beyond pure recycling, is discussed. Practical studies and examples from industry will be used to show how CE can be introduced in a company. In addition to technical requirements, particular attention is paid to economic and ecological factors.</p>		
<p><b>Literatur</b>            v. Hauff Grundwissen Circular Economy, utb, 2023            Gosh (ed.); Circular Economy: Global Perspective, Springer, 2020</p>		
<b>Lehrveranstaltungen</b>		
<b>Dozenten/-innen</b>	<b>Titel der Lehrveranstaltung</b>	<b>SWS</b>
S. Steinigeweg	Introduction to Circular Economy (lecture)	2
S. Steinigeweg	Introduction to Circular Economy (seminar)	2