## Module Card

**Module Number**: REAP-M-Mod-303  
**Module Name**: Technologies for Sustainable Material Cycles  
**Type**: CE  
**Semester**: 3.  
**Module Coordinator**: Prof. Dr. Wolfgang Willkomm

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Resources, Technologies and Environment</td>
<td>1 semester</td>
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<tr>
<th>CP (according to ECTS)</th>
<th>Contact Hours/Week (SWS)</th>
<th>Self-study</th>
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<tbody>
<tr>
<td>5 CP (= 150 h workload)</td>
<td>2 (= 21 h contact time)</td>
<td>129 h</td>
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### Objectives and Contents

#### Objective of Qualification (competencies)
- Knowledge of the standard technologies for material cycles and recycling.
- Competence of decision making in the field of selection of material related technologies.

#### Contents
- Planning strategies for long life cycles of buildings, building elements and building materials.
- Technologies for material conservation and appropriate construction.
- Technologies for building element (product) and building material (material) recycling.
- Planning procedures for recycling adapted construction and selection of materials.

### Recommended Literature
- varied

### Teaching and Learning Methods
- Lecture (complemented by seminar discussions, individual student inputs for specific subjects).

### Exam(s)

#### Precondition of Examination
- regular participation, individual oral input, successful completion of student report and oral presentation

#### Type of Examination
- Term paper (S) comprising report (R).

#### Duration of Examination (if written or oral exam)
- Composition of Module Mark
- Exam grade

### Additional Information

#### Previous Knowledge / Conditions for Participation (in form and content)
- Successful completion of the module REAP-M-Mod-201 is required. (in form)

#### Applicability of Module
- Students have to select 2 modules of the block “Resources, Technologies and Environment” to attend REAP-M-Mod-309 Project III.

#### Frequency of Offering
- Each winter term

#### Course Language
- English

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Update: 30.09.16