

## Environmental and Recycling Technology (M. Eng.)

<b>Module – Number</b>	<b>734</b>	<b>Obligatory</b>		
<b>Module name</b>	<b>Environmental Law</b>			
Module coordinator	Dr. Leitzke			
Title	Environmental Law			
Title of examination	Environmental Law			
Semester	1 <sup>st</sup>			
Course type	Language	Lecture	English	
Credit hours/ ECTS/ Workload	4		5	150
Formal Conditions	Bachelor of Engineering or Bachelor of Science degree			

### 1. Content and objectives

#### **Content:**

The lecture first presents the general principles of European and German environmental law, in particular the basic principles and instruments of environmental law. Then the most important areas of special environmental law are dealt with, in particular emission control law, recycling law, water protection law, nature conservation law and soil protection law. In the context of special environmental law, the structure and functioning of modern environmental laws and the application of the legal text to simple cases are also dealt with. The lecture deals with essential legal norms for the recycling industry. Based on the requirements of EU law, the basics of German recycling law on waste avoidance, waste recycling and waste disposal as well as the legal waste disposal obligations are presented. The circular economy regulations for special material flows, in particular packaging, electrical and electronic equipment, vehicles, batteries, PCB, waste oil, waste wood, sewage sludge and biowaste are presented in more detail.

#### **Learning objectives:**

Students acquire in-depth knowledge of environmental law with a national and international focus.

Legal framework of the recycling industry: The students can classify environmental law and recycling law in the goals of a sustainable economic order. The students have an overview of general and specific environmental law, which is fragmented through various laws. The students can explain the general basic terms and principles as well as the public-law instruments of environmental law and the structure of modern environmental laws as well as the main features of important laws of special environmental law. In the circular economy law, they can describe the multi-level system of Union, federal and state regulations. Under German law, they can explain to waste management facilities the basic concept of waste, the waste hierarchy and the legal waste transfer obligations and the monitoring and reporting obligations and requirements. In addition, the students can identify the requirements and special problems of individual material flows such as packaging, electrical and electronic equipment, batteries or sewage sludge. With this knowledge the students are able to solve simple legal questions from the recycling industry. They can also identify potential legal problems and discuss them with internal or external contacts. They understand the underlying objectives, evaluations and conflicts of interest of the regulations. Environmental law: In the area of special environmental law, the students can describe the basics of the most important laws (in particular pollution control law; recycling law; water protection law; nature protection law; soil protection law; nuclear and radiation protection law). With this knowledge, the students are able to assess simple environmental law issues and present their position to lawyers and laypeople. In addition, the students got to know the relevance of conflicting objectives of the legal system, which is characterized by the balance between economy and ecology.

**Literature:** For preparation and follow-up the following textbooks are recommended:

Legal text: KrWG (Recycling Management Act), dtv, latest edition  
 Legal text: Environmental law, important laws and regulations for the protection of the environment, Beck texts in dtv, latest edition

Erbguth / Schlacke, Umweltrecht, ISBN-13: 978-3848728855, latest edition (currently 6th edition 2016)

A list of further literature will be given out in the lectures.

### 2. Method(s) of instruction

Lecture

### 3. Requirements for attendance

There are no formal requirements for participation.

### 4. Usability of this module

This module is obligatory in the Master program M. Eng. Environmental and Recycling Technology.

### 5. Requirements for assessment

Students need to pass the module examination, which encompasses all contents of the lecture.

Type of examination: written examination with a duration of 90 min. Alternative types of examination are possible.

### 6. ECTS Credits

Modules are assessed by a module examination, which is credited by 5 credit points according to the ECTS (European Credit Transfer and Accumulation System).

#### **7. Frequency of offer**

The module is scheduled for the first academic year.

#### **8. Workload**

Course Participation = 50 h

Preparation and follow-up (of the lecture) = 55 h

Preparation for examination = 45 h

**The entire workload encompasses 150 hours, which equals 5 ECTS credit points.**

#### **9. Duration of module**

The module is held within one semester.