# Management of Riverine Landscapes

**Relevance for ResEngin curriculum**

compulsory elective

**Administration**

ResEngin-Office

**Contact**

res.eng@kit.edu

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**Term(s) offered**

2nd (Apr–Sept)

**Duration / Cycle**

1 term; every year

**Language of instruction**

English/ German

**Prerequisites**

Bachelor, German language proficiency at DSH level

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**Module coordinator**

KÄMPF, Dr.rer.nat. Charlotte; IWG-WK [Modulverantwortliche]

**Learning outcomes**

Description see p. 2.

**Literature / Course materials**

Reference list see p. 3.

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**Basis for module(s)**

not applicable

**Intersection with module(s)**

M 7 Integrated Projects

M 8 Intercultural Communication

M 9 International Project Management

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**Lecture courses**

(30 work hours → 1 CP acc. to ECTS)

<table>
<thead>
<tr>
<th>Course Details</th>
<th>CP</th>
<th>WCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>19614 Governmental Resources Engineering (excursions)</td>
<td>1.5</td>
<td>1</td>
</tr>
<tr>
<td>19615 International Nature Conservation (seminar)</td>
<td>1.5</td>
<td>1</td>
</tr>
<tr>
<td>xxxxx Excursions « Riverine Landscapes »</td>
<td>2.0</td>
<td>1 week</td>
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<tr>
<td><strong>SUM</strong></td>
<td><strong>5.0</strong></td>
<td><strong>2 WCH + 1 wk</strong></td>
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**Workload specification**

<table>
<thead>
<tr>
<th>Workload</th>
<th>Description</th>
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<tbody>
<tr>
<td>5 x 30 h</td>
<td>150 h</td>
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**Lecture Phase:** Contact hours 61.0 h

Self instruction hours 63.0 h

**Exam Phase:** Self instruction hours 40.5 h

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**Module examination(s)**

(mode | scope | weighting)

“Management of Riverine Landscapes”

poster presentation | 15 min | 5.0/5.0 CP

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**Lecturers**

(in alphabetic order)

- KÄMPF, Dr.rer.nat. Charlotte; IWG-Hydrologie
- SCHNEIDER, Dr.rer.nat. Erika; WWF-Aueninstitut, Rastatt
- + Sen. Res. Assoc. of IWG-WK / IWG-SWW / IfH
- + representatives of KA research institutions

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**Individual lecture courses**

Descriptions + Recommended background knowledge see pp. 4.
Module T4c: “Management of Riverine Landscapes” (cont.)

Module topic

This module aims at explaining variations in organizations and societal research tasks in the field of riverine landscapes; the rationale of applying specific policy instruments and local, regional, national and supranational legislation as instrument for nature conservation, environmental protection, and sustainable development.

Learning outcomes

Disciplinary knowledge

- **concepts, theories & definitions**
  objectives and main strategies of national and international bodies, policy making.
- **subject matter (factual data, examples)**
  (a) research institutions in the Technology Region KA
  (b) German water resources research
  (c) International conventions (protection of species, habitats, landscapes).
- **methods & procedures**
  Main strategies for nature conservation: Red lists for endangered species, biodiversity protection, resources management, restoration: assessment and evaluation of ecological status; implementation, monitoring as success control.

Professional skills

- critical reading of complex legal texts;
  transfer of knowledge (e.g., adaptation of relevant policies).

Personal competence

- n.a.
Module T4c: “Management of Riverine Landscapes” (cont.)

Literature/ Course material

Course packs for all 3 course units
Course

Governmental Research Engineering  
(Research & Development)

**Module T4c**  
Management of Riverine Landscapes

**Relevance**  
compulsory elective

**Prerequisites**  
Bachelor, German proficiency (DSH level)

**Term(s)**  
2nd term (summer)

**Language**  
English/ German

**Training mode**  
Seminar 1 WCH

**Workload specification**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>LECTURE PHASE</strong></td>
<td></td>
</tr>
<tr>
<td>Contact (based on 1 WCH)</td>
<td>10.5 h</td>
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<tr>
<td>Self instruction</td>
<td>21.0 h</td>
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<tr>
<td><strong>EXAM PHASE</strong></td>
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<tr>
<td>Self instruction</td>
<td>13.5 h</td>
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</table>

**Contact**

charlotte.kaempf@kit.edu

**Lecturer(s)**

KÄMPF, Dr.rer.nat. Charlotte; IWG-WK  
+ representatives of KA research institutions

**Course topic**

German policy making for resources management. Differences among organizations and societal research tasks.

Recommended background knowledge  
M 1 ... M3.

**Learning outcomes**

**Disciplinary knowledge**

- **concepts, theories & definitions**  
  German water resources research.
- **subject matter (factual data, examples)**  
- **methods & procedures**

**professional skills**

n.a.

**Personal Competence**

n.a.

**Assessment specification**

<table>
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<tr>
<th>Type</th>
<th>Specification</th>
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<tbody>
<tr>
<td>written</td>
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<tr>
<td>oral</td>
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</table>
| other         | poster = module exam “Management of Riverine Landscapes”
                 together with LV International Nature Conservation & LV Wasserbauauskursion

* WCH = Weekly Contact Hours
Module T4c  Management of Riverine Landscapes

Course

International Nature Conservation

<table>
<thead>
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<th>KIT lecture ID</th>
<th>Workload specification</th>
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<td>19615</td>
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<tr>
<td>Relevance</td>
<td>compulsory elective</td>
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<tr>
<td>Prerequisites</td>
<td>Bachelor, German proficiency (DSH level)</td>
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<tr>
<td>Term(s)</td>
<td>2nd term (summer)</td>
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<tr>
<td>Language</td>
<td>English</td>
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<tr>
<td>Training mode</td>
<td>Seminar, 1 WCH</td>
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<tr>
<td>Workload</td>
<td>1.5 CP (\Rightarrow) 45.0 h</td>
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<table>
<thead>
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<th>Lecturer(s)</th>
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<td>SCHNEIDER, Dr.rer.nat. Erika; WWF-Aueninstitut, Rastatt</td>
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Course topic

The rationale of applying specific policy instruments and local, regional, national and supranational legislation as instrument for nature conservation, environmental protection, and sustainable development.

Recommended background knowledge

Biology.

Learning outcomes

- **Disciplinary knowledge**
  - concepts, theories & definitions
    objectives and main strategies of national and international bodies for nature conservation: Red lists for endangered species, biodiversity protection, resources management, restoration.
  - subject matter (factual data, examples)
  - methods & procedures
    assessment and evaluation of ecological status; monitoring as success control.

- **Professional skills**
  - critical reading of complex legal texts;
  - transfer of knowledge (e.g., legal frame from one country to another).

Personal competence

n.a.

Assessment specification

written ---
oral ---
other poster = module exam “Management of Riverine Landscapes” together with LV Governmental Research Engineering & LV “Riverine Landscapes”

Contact

charlotte.kaempf@kit.edu

* WCH = Weekly Contact Hours
Module T4c

Management of Riverine Landscapes

Course

Riverine Landscapes
(Excursions)

<table>
<thead>
<tr>
<th>KIT lecture ID</th>
<th>n.a.</th>
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<tbody>
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<tr>
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<tr>
<td>Term(s)</td>
<td>2nd term (summer)</td>
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<td>Excursions 1 week</td>
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<tr>
<td>Workload</td>
<td>2.0 CP ⇒ 60.0 h</td>
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Workload specification

| LECTURE PHASE | Self instruction 40.0 h |
| EXAM PHASE    | Self instruction 13.5 h |

Contact

charlotte.kaempf@kit.edu

Lecturer(s)

Senior Research Associates of IWG-WK / IWG-SWW and IfH

Course topic

Local and regional riverine landscapes.

Recommended background knowledge

n.a.

Learning outcomes

Disciplinary knowledge
- concepts, theories & definitions:

- subject matter (factual data, examples)
  excursion in the Upper Rhine Valley and along other main rivers in Germany;
  e.g. WWF-Aueninstitut, Rastatt; Riedmuseum, Ottersdorf.
- methods & procedures

Professional skills

n.a.

Personal competence

n.a.

Assessment specification

written ---
oral ---
other poster = module exam "Management of Riverine Landscapes" together with LV Governmental Research Engineering & LV International Nature Conservation

* WCH = Weekly Contact Hours