# C Compulsory Modules (Pflichtmodule)

**On campus Fachpraktikum (Internship) RESE M 9**

<table>
<thead>
<tr>
<th>Relevance for ResEngin curriculum</th>
<th>compulsory</th>
<th>Administration</th>
<th>Contact</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>ResEngin Office</td>
<td><a href="mailto:res.eng@bgu.kit.edu">res.eng@bgu.kit.edu</a></td>
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</tbody>
</table>

**Duration | Cycle**

1 term; every other year

**Term(s) offered**

3rd term (Winter term Oct–Mar)

**Language of instruction**

German

**Prerequisites**

German language proficiency (level B1 acc. to CEFR)

**Module coordinator**

KÄMPF, Dr. rer. nat. Charlotte; IWG-HYD (Academic Co-Director)

**Learning outcomes**

Description see p. 2.

**Literature / Course materials**

Reference list see p. 3.

**Basis for module(s)**

- M MSc Masterarbeit/ Master Thesis

**Intersection with module(s)**

- M 7 Integrated Development Planning
- M 8 Intercultural Communication
- M 10 International Project Management

## Lecture courses (training mode)

<table>
<thead>
<tr>
<th>On campus Fachpraktikum (Internship) (internship)</th>
<th>6.0 CP</th>
<th>4 wks</th>
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<tbody>
<tr>
<td>SUM</td>
<td>6.0 CP</td>
<td>4 wks</td>
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</table>

**Workload specification**

(30 work hours → 1 CP acc. to ECTS) 6 x 30 h 180 h

**Introduction**

- Contact hours 10.0 h
- Self instruction hours 10.0 h

**Project Phase**

- Contact hours 70.0 h
- Self instruction hours 70.0 h

**Exam Phase**

- Self instruction hours 20.0 h

**Module examination(s) (mode | scope | weighting)**

- “On campus Fachpraktikum (Internship)” report | 4,000 words | 6.0/6.0 CP

**Lecturers (in alphabetic order)**

- KÄMPF, Dr. rer. nat. Charlotte; IWG-HYD
- all Resources Engineering lecturers; KIT

**Individual lecture course(s)**

Descriptions + Recommended background knowledge see pp. 4.
Module 9: “On campus Fachpraktikum (Internship)” (cont.)

Module topic

At the example of a German scientific research institution:
(a) Scientific writing for the documentation of international water science and engineering projects, (b) team management for consortia of international projects.

Learning outcomes

Disciplinary knowledge
- concepts, theories & definitions
  INTRODUCTION: project cycle, document cycle, organization theory for social systems, communication theories, rhetorical theory for scientific writing, Gestalt principles.
  PROJECT PHASE: concepts, theories and facts related to the chosen project topic.
- subject matter (factual data, examples)
  PROJECT PHASE: projects that explore questions
  (a) in basic research (e.g., structure and process dynamic relevant for the water cycle), or
  (b) in innovative technologies for water resources management, or
  (c) for the transfer of technologies in support of development processes.
- methods & procedures
  INTRODUCTION: writing IMRaD texts, corporate design, and time charts.
  PROJECT PHASE: After consultation with the advisor, the student is supposed to cover selected process steps in the course of an international project; this concerns in particular:
  (a) a contribution during the proposal phase; e.g., literature search for a limited set of data;
  (b) a contribution to an ongoing project; e.g., support of a research assistant who prepares a status-quo seminar for the research group;
  (c) review of the documentation for a finished project (from the proposal to annual reports and the final report, resulting in a proposal for a follow-up project).

Professional skills
- Awareness of differences in communicating with project partners as well as with funding agencies;
- Competency in contributing as engineering professionals to initiating and managing international projects in water science and engineering projects; e.g., independent grant application writing.

Personal competence
- Working in transdisciplinary contexts: in consortia that may cover the academic community, representatives of the public, governmental authorities, consulting offices and partners in industry.
- Intercultural competence; e.g., awareness of various cultures for academic communication.
Module 9: “On campus Fachpraktikum (Internship)” (cont.)

Literature/ Course material

    Libraries at institutions where students will take their internship
# Module 9

## On campus Fachpraktikum (Internship)

<table>
<thead>
<tr>
<th>KIT Lecture ID</th>
<th>n.a.</th>
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<tbody>
<tr>
<td>Relevance</td>
<td>compulsory</td>
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<tr>
<td>Prerequisites</td>
<td>Bachelor</td>
</tr>
<tr>
<td>Term(s)</td>
<td>3rd term (winter)</td>
</tr>
<tr>
<td>Language</td>
<td>German / English</td>
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<tr>
<td>Training mode</td>
<td>Internship, 4 wks</td>
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<tr>
<td>Workload</td>
<td>6.0 CP ⇒ 180.0 h</td>
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</table>

**Course topic**

At the example of a German scientific research institution:
(a) Scientific writing for the documentation of international water science and engineering projects, (b) team management for consortia of international projects.

**Recommended background knowledge**

M 1...M 6

**Disciplinary knowledge**

- **concepts, theories & definitions**
  
  *INTRODUCTION:* project cycle, communication theories, rhetorical theory, Gestalt principles.
  
  *INTERNSHIP PHASE:* concepts, theories and facts related to the chosen project topic.

- **subject matter (factual data)**
  
  *INTERNSHIP PHASE:* projects that explore questions in basic research, in innovative technologies, or for the transfer of technologies in support of development processes.

- **methods & procedures**
  
  *INTRODUCTION:* writing IMRaD texts, time charts, and corporate design.
  
  *INTERNSHIP PHASE:* The student is supposed to cover selected process steps; this concerns in particular: a contribution during the proposal phase; a contribution to an ongoing project; review of the documentation for a finished project.

**Professional skills**

Awareness of differences in communicating with project partners as well as with funding agencies; competency in initiating and managing international projects.

**Personal competence**

Working in transdisciplinary contexts, writing for international communities.

**Assessment specification**

- written ---
- oral ---
- other report (4.000 words) = module exam “On campus Fachpraktikum (Internship)”

* WCH = Weekly Contact Hours