This module manual lists the modules in the Studium Generale area for the following degree programs (Exam regulations 2023):
B.Sc. Electrical Engineering and Information Technology (2023)
M.Sc. Electrical Engineering and Information Technology (2023)
B.Sc. Mechatronics (2023)
M.Sc. Mechatronics (2023)
B.Sc. Information Systems Technology (2023)
M.Sc. Information Systems Technology (2023)
M.Sc. Information and Communication Engineering (2023)
B.Sc. Biomedical Engineering (2023)

Module handbook: Studium Generale (PO 2023)

Date: 03.07.2024

FB 18
Email: servicezentrum@etit.tu-darmstadt.de
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1 Mentoring

Only in the Bachelor’s degree programs

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1 Teaching content
The following learning content is taught in the Mentoring:
- reflection of own study decision and situation,
- basics of the working techniques,
- learning techniques and time management methods.
The mentoring consists of student-led tutorials in the scope of normally twelve units consisting of group and one-on-one talks, as well as workshop elements and the simulation of an examination situation.
For students without exam success in the first semester (WiSe) in an examination in the field of “fundamentals of electrical engineering and information technology” or “fundamentals of mathematics” of the study and examination plan, the second semester (SoSe) takes place, usually in the scope of three units consisting of one-to-one talks and workshop elements.

2 Learning objectives

3 Recommended prerequisites for participation

4 Form of examination

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

- all required as well as current materials will be provided in the moodle course

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [02-04-0130-ue] (Study achievement, Oral/written examination, p/np RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
     - [02-04-0130-ue] (Study achievement, Oral/written examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

### Courses

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#### Language
German

#### Module owner
Prof. Dr. phil. Martina Heßler

#### 1 Teaching content

#### 2 Learning objectives

#### 3 Recommended prerequisites for participation

#### 4 Form of examination
Course related exam:
- [02-04-0430-ue] (Study achievement, Oral/written examination, p,np RS)

#### 5 Prerequisite for the award of credit points
Passing the final module examination

#### 6 Grading
Course related exam:
- [02-04-0430-ue] (Study achievement, Oral/written examination, Weighting: 100 %)

#### 7 Usability of the module

#### 8 Grade bonus compliant to §25 (2)

#### 9 References

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   Course related exam:
   - [02-04-0201-vl] (Study achievement, Oral/written examination, p/np RS)

5. **Prerequisite for the award of credit points**
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6. **Grading**
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7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
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5. Prerequisite for the award of credit points
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6. Grading
   Course related exam:
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7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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7. Usability of the module
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**Language**
German

**Module owner**
Prof. Dr. phil. Martina Heßler

1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
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5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
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7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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1 **Teaching content**

2 **Learning objectives**

3 **Recommended prerequisites for participation**

4 **Form of examination**
   
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5 **Prerequisite for the award of credit points**
   
   Passing the final module examination

6 **Grading**
   
   Course related exam:
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7 **Usability of the module**

8 **Grade bonus compliant to §25 (2)**

9 **References**

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1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
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5. Prerequisite for the award of credit points
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6. Grading
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7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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## 2.3 Modules dep. 2 - Political Sciences

Specific modules of the dep. 2 - Political Sciences

## 2.4 Modules dep. 2 - Sociology

Specific modules of the dep. 2 - Sociology

## 2.5 Modules dep. 2 - Linguistics and literature

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- Course related exam: [02-25-1067-vl] (Study achievement, Written examination, p/np RS)

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- Passing the final module examination

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- Course related exam: [02-25-1067-vl] (Study achievement, Written examination, Weighting: 100 %)

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2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam: [02-15-1013-vl] (Study achievement, Written examination, p/np RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam: [02-15-1013-vl] (Study achievement, Written examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
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5. Prerequisite for the award of credit points
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6. Grading
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7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

Courses

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Lecture Digital Humanities

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**Language**
German/English

**Module owner**
Dr. Sabine Bartsch

1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   Course related exam:
   - [02-25-2001-vl] (Study achievement, Oral examination, Default RS)

5. **Prerequisite for the award of credit points**
   Passing the final module examination

6. **Grading**
   Course related exam:
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7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

**Courses**

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### Courses

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Language
German

Module owner
Prof. Dr. Wolfgang Ellermeier

1 Teaching content

2 Learning objectives

3 Recommended prerequisites for participation

4 Form of examination
Module exam:
  • Module exam (Study achievement, Examination, Duration: 60 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading
Module exam:
  • Module exam (Study achievement, Examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

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Analysis and Synthesis of Human Movements I

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [03-41-0580-se] (Study achievement, Optional, Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
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7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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Analysis and Synthesis of Human Movements II

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### 1. Teaching content

### 2. Learning objectives

### 3. Recommended prerequisites for participation

### 4. Form of examination
Course related exam:
- [03-41-0582-se] (Study achievement, Optional, Default RS)

### 5. Prerequisite for the award of credit points
Passing the final module examination

### 6. Grading
Course related exam:
- [03-41-0582-se] (Study achievement, Optional, Weighting: 1)

### 7. Usability of the module

### 8. Grade bonus compliant to §25 (2)

### 9. References

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### Language
German/English

### Module owner
Prof. Dr. phil. André Seyfarth

1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [03-41-0584-se] (Study achievement, Optional, Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
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7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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Applied cognitive psychology

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**Language**
German

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   Module exam:
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5. **Prerequisite for the award of credit points**
   Passing the final module examination

6. **Grading**
   Module exam:
   - Module exam (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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#### Language
German

#### Module owner
Prof. Dr. phil. Nina Keith

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Module exam: (Study achievement, Examination, Duration: 90 Min., Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Module exam: (Study achievement, Examination, Weighting: 100 %)

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7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Module exam (Study achievement, Examination, Duration: 90 Min., p/np RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Module exam (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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Berufsbildungstheorie und Berufsbildungsforschung

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Language
German

Module owner
Prof. Dr. phil. Birgit Ziegler

1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
   Module exam:
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5. Prerequisite for the award of credit points
   Passing the final module examination

6. Grading
   Module exam:
   • Module exam (Study achievement, Examination, Weighting: 100 %)

7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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**Language**
German

**Module owner**
Prof. Ph.D. Nina Grünberger

1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [03-01-5109-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
     - [03-01-5109-vl] (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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Differential Psychology and Personal Research

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**Language**
German

**Module owner**
Dr. phil. nat. Udo Keil

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Module exam (Study achievement, Examination, Duration: 60 Min., Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Module exam (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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### 1 Teaching content

### 2 Learning objectives

### 3 Recommended prerequisites for participation

### 4 Form of examination

Course related exam:
- [03-01-0021-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

### 5 Prerequisite for the award of credit points

Passing the final module examination

### 6 Grading

Course related exam:
- [03-01-0021-vl] (Study achievement, Examination, Weighting: 100 %)

### 7 Usability of the module

### 8 Grade bonus compliant to §25 (2)

### 9 References

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
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5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
     - [03-46-0007-vl] (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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1 Teaching content

2 Learning objectives

3 Recommended prerequisites for participation

4 Form of examination
   Course related exam:
   • [03-01-4111-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
   Passing the final module examination

6 Grading
   Course related exam:
   • [03-01-4111-vl] (Study achievement, Examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

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1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
   - Course related exam: [03-01-4010-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

5. Prerequisite for the award of credit points
   - Passing the final module examination

6. Grading
   - Course related exam: [03-01-4010-vl] (Study achievement, Examination, Weighting: 100 %)

7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
   Module exam:
   • Module exam (Study achievement, Examination, Duration: 90 Min., Default RS)

5. Prerequisite for the award of credit points
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6. Grading
   Module exam:
   • Module exam (Study achievement, Examination, Weighting: 100 %)

7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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**Language**
German

**Module owner**
Prof. Dr. Josef Wiemeyer

### 1 Teaching content

### 2 Learning objectives

### 3 Recommended prerequisites for participation

### 4 Form of examination
Course related exam:
- [03-46-0004-vl] (Study achievement, Examination, Duration: 60 Min., Default RS)

### 5 Prerequisite for the award of credit points
Passing the final module examination

### 6 Grading
Course related exam:
- [03-46-0004-vl] (Study achievement, Examination, Weighting: 100 %)

### 7 Usability of the module

### 8 Grade bonus compliant to §25 (2)

### 9 References

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Module name
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Language
German

Module owner
Prof. Dr. Wolfgang Ellermeier

1 Teaching content

2 Learning objectives

3 Recommended prerequisites for participation

4 Form of examination
   Module exam:
   • Module exam (Study achievement, Examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
   Passing the final module examination

6 Grading
   Module exam:
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7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

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**Language**
German

**Module owner**
Prof. Dr. phil. Alexandra Karentzos

1 **Teaching content**

2 **Learning objectives**

3 **Recommended prerequisites for participation**

4 **Form of examination**
   Course related exam:
   - [03-01-2011-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

5 **Prerequisite for the award of credit points**
   Passing the final module examination

6 **Grading**
   Course related exam:
   - [03-01-2011-vl] (Study achievement, Examination, Weighting: 100 %)

7 **Usability of the module**

8 **Grade bonus compliant to §25 (2)**

9 **References**

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**Language**
German

**Module owner**
Prof. Ph.D. Nina Grünberger

1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [03-01-4008-se] (Study achievement, Oral examination, Duration: 15 Min., Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
     - [03-01-4008-se] (Study achievement, Oral examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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1. Teaching content
2. Learning objectives
3. Recommended prerequisites for participation
4. Form of examination
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   • Module exam (Study achievement, Examination, Duration: 90 Min., Default RS)
5. Prerequisite for the award of credit points
   Passing the final module examination
6. Grading
   Module exam:
   • Module exam (Study achievement, Examination, Weighting: 100 %)
7. Usability of the module
8. Grade bonus compliant to §25 (2)
9. References

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### 1. Teaching content

### 2. Learning objectives

### 3. Recommended prerequisites for participation

### 4. Form of examination

Course related exam:
- [03-47-0006-vl] (Study achievement, Study achievement, Duration: 45 Min., Default RS)

### 5. Prerequisite for the award of credit points

Passing the final module examination

### 6. Grading

Course related exam:
- [03-47-0006-vl] (Study achievement, Study achievement, Weighting: 100 %)

### 7. Usability of the module

### 8. Grade bonus compliant to §25 (2)

### 9. References

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1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
   - Course related exam:
     - [03-47-0003-vl] (Study achievement, Study achievement, Duration: 45 Min., Default RS)

5. Prerequisite for the award of credit points
   - Passing the final module examination

6. Grading
   - Course related exam:
     - [03-47-0003-vl] (Study achievement, Study achievement, Weighting: 100 %)

7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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Sport Pedagogy

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Language
German

Module owner
Prof. Dr. phil. Franz Bockrath

1. Teaching content

2. Learning objectives

3. Recommended prerequisites for participation

4. Form of examination
   Course related exam:
   • [03-44-0001-vl] (Study achievement, Examination, Duration: 60 Min., Default RS)

5. Prerequisite for the award of credit points
   Passing the final module examination

6. Grading
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   • [03-44-0001-vl] (Study achievement, Examination, Weighting: 100 %)

7. Usability of the module

8. Grade bonus compliant to §25 (2)

9. References

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2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   Course related exam:
   - [03-45-0001-vl] (Study achievement, Examination, Duration: 60 Min., Default RS)

5. **Prerequisite for the award of credit points**
   Passing the final module examination

6. **Grading**
   Course related exam:
   - [03-45-0001-vl] (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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**Language**
German

**Module owner**
Felix Kühnle

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**1** Teaching content

**2** Learning objectives

**3** Recommended prerequisites for participation

**4** Form of examination
Course related exam:
- [03-43-0004-vl] (Study achievement, Examination, Duration: 60 Min., Default RS)

**5** Prerequisite for the award of credit points
Passing the final module examination

**6** Grading
Course related exam:
- [03-43-0004-vl] (Study achievement, Examination, Weighting: 100 %)

**7** Usability of the module

**8** Grade bonus compliant to §25 (2)

**9** References

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**Language**
German

**Module owner**
Prof. Dr. phil. Ralf Tenberg

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [03-01-5000-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
     - [03-01-5000-vl] (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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**Instructor**
Prof. Dr. phil. Ralf Tenberg
### Module name
Technikdidaktik II

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**Language**
German

**Module owner**
Prof. Dr. phil. Ralf Tenberg

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1. **Teaching content**

2. **Learning objectives**

3. **Recommended prerequisites for participation**

4. **Form of examination**
   - Course related exam:
     - [03-01-5002-vl] (Study achievement, Examination, Duration: 90 Min., Default RS)

5. **Prerequisite for the award of credit points**
   - Passing the final module examination

6. **Grading**
   - Course related exam:
     - [03-01-5002-vl] (Study achievement, Examination, Weighting: 100 %)

7. **Usability of the module**

8. **Grade bonus compliant to §25 (2)**

9. **References**

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**Instructor**
Prof. Dr. phil. Ralf Tenberg
# Module name
Training Science

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## Teaching content

## Learning objectives

## Recommended prerequisites for participation

## Form of examination

Course related exam:
- [03-42-0003-vl] (Study achievement, Examination, Duration: 60 Min., Default RS)

## Prerequisite for the award of credit points

Passing the final module examination

## Grading

Course related exam:
- [03-42-0003-vl] (Study achievement, Examination, Weighting: 100 %)

## Usability of the module

## Grade bonus compliant to §25 (2)

## References

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3 Entrepreneurship and Management (offers of dep. 1, a.o.)

except for the iST study programs

3.1 EI - Lectures (basic modules)

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<td>Prof. Dr. rer. pol. Reiner Quick</td>
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1 Teaching content
Financial Accounting: Fundamentals of accounting and bookkeeping, inventory, balance sheet, recording of assets and debt, recording of expenses and revenues, selected transactions (sales and purchases, non-current assets, current assets, accruals, wage and salary, distribution of earnings), annual closing entry.

2 Learning objectives
After the course students are able to
- understand the core principles of bookkeeping, inventory and preparation of the balance sheet
- book stocks and profit
- solve specific bookkeeping problems in the fields of sales and purchases, non-current and current assets, accruals, wage and salary, distribution of earnings
- understand of the steps prior to the preparation of annual financial statements according to the German Commercial Code (HGB)
- analyze of the recognition and measurement of assets and liabilities
- understand of Income statements, notes and management reports
- solve accounting cases in the context of the German Commercial Code (HGB)

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
- Module exam (Study achievement, Oral/written examination, Duration: 45 Min., Default RS)
- Module exam (Technical examination, Written examination, Duration: 90 Min., Default RS)
Supplement to Assessment Methods:
The academic achievement needs to be passed to take part in the module exam.

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
• Module exam (Study achievement, Oral/written examination, Weighting: 1)
• Module exam (Technical examination, Written examination, Weighting: 2)

7 Usability of the module
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 Grade bonus compliant to §25 (2)

9 References
Further literature will be announced in the lecture.

Courses

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<td>01-14-0003-vu</td>
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<td>Prof. Dr. rer. pol. Reiner Quick</td>
<td>Lecture and practice</td>
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Module name
German and International Corporate Law

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Language
German

Module owner
Prof. Dr. jur. Janine Wendt

1 Teaching content
The lecture is divided into two parts: The first part is an introduction to commercial law. The aim is to understand the importance of contract drafting in a company and to take into account the main aspects of commercial law regulations. The second part is devoted to company law, in particular the law of commercial partnerships and corporations. It also deals with the basic issues of good corporate governance and the importance of compliance. European company law will also be introduced.

Recitation: This course discusses practical cases concerning commercial law and general company law. In preparation for the exam, sample cases will be discussed.

2 Learning objectives
After the course students are able to
• recognise the conditions for the application of commercial law.
• distinguish between the different commercial intermediaries.
• understand the basic structures of the most important forms of partnerships and corporations as legal entities for companies.
• understand the importance of good corporate governance and the importance of compliance for companies.
• deal with different legal texts.
• understand the significance of European legal developments for German law and in particular for the protection of investors.
• understand the context of legal regulations (e.g. sales law + commercial law + company law).
• work on simple facts of the German commercial and company law, as well as the financial market law by applying a legal approach and to compile answers to simple legal questions independently.
• generally recognise, assess and respond to the possibilities and risks of liability in legal matters.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills and contract law

4 Form of examination
Module exam:
• Module exam (Technical examination, Written examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
• Module exam (Technical examination, Written examination, Weighting: 100 %)

7 Usability of the module
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 Grade bonus compliant to §25 (2)

9 References
Brox/Henssler, Handelsrecht
Kindler, Grundkurs Handels- und Gesellschaftsrecht

Further literature will be announced in the lecture.

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<td>01-42-0001-ue</td>
<td>German and International Corporate Law</td>
<td>Prof. Dr. jur. Janine Wendt</td>
<td>Practice</td>
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</table>
Module name
Basic Principles of Patent and Copyright Law

<table>
<thead>
<tr>
<th>Module nr.</th>
<th>Credit points</th>
<th>Workload</th>
<th>Self-study</th>
<th>Module duration</th>
<th>Module cycle</th>
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<tbody>
<tr>
<td>01-41-1127</td>
<td>3 CP</td>
<td>90 h</td>
<td>60 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
German

Module owner
Prof. Dr. jur. Jochen Marly

1 Teaching content
Introduction, Overview on the Intellectual Property Rights, Literature, General Right of Privacy, “The right of
the own picture”, Protection of the Name, The work of the author, The author, The Content of the Copyright I,
The Content of the Copyright II, Limitations of the Copyright Law, Marketing companies, The Copyright Law
in legal matters, Publishing contracts, International Copyright Law, Theory of the Industrial Property Rights,
Object of protection and provisions of protection of a patent, The inventor, The creation of a patent, content and
limitations of a patent, Infringements of right

2 Learning objectives
After the course the students are able to
• state their view on existing legal structures of solutions. Because of many problems of detail only an
  exemplary learning has a good prospect for a successful achievement.

3 Recommended prerequisites for participation

4 Form of examination
Module exam:
• Module exam (Technical examination, Oral/written examination, Default RS)

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading
Module exam:
• Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References
to be announced in class.

Courses

<table>
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<tr>
<th>Course nr.</th>
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<tbody>
<tr>
<td>01-41-0002-vl</td>
<td>Introduction to Patent and Copyright Law</td>
<td>Lecture</td>
<td>2</td>
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</tbody>
</table>

Instructor
Prof. Dr. jur. Jochen Marly
Module name
Introduction to project management

Module nr. 01-19-0B03
Credit points 3 CP
Workload 90 h
Self-study 60 h
Module duration 1 Term
Module cycle Every Semester

Language German
Module owner Prof. Dr. rer. pol. Andreas Pfnür

1 Teaching content
Basic concepts, project organisation, planning a work breakdown structure, quantity and cost estimation, time, cost and capacity planning, project control, project risk management, financial planning of projects, selected problems of project leadership, Selected applications and case studies from project management

2 Learning objectives
After the course students are able to
• understand the basic tasks and challenges of project management,
• know different alternatives of the organization of the project management and to evaluate their specific advantages and disadvantages,
• demonstrate the various ways in which project committees can be set up and how they can be integrated into a company's organisation,
• understand and develop a project structure plan,
• understand and evaluate the procedures for estimating quantities and project costs,
• apply and evaluate state-of-the-art models and procedures for time, cost and resource planning,
• carry out in-depth procedures of project controlling and to learn how to apply them in specific situations.
• understand the basics of financial planning of a project.
• understand selected problems of project management.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
• Module exam (Technical examination, Written examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the examination

6 Grading
Module exam:
• Module exam (Technical examination, Written examination, Weighting: 100 %)

7 Usability of the module
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 Grade bonus compliant to §25 (2)

9 References
Further literature will be announced in the lecture.

**Courses**

<table>
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<tr>
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<tr>
<td>01-19-5100-vu</td>
<td>Introduction to Project Management</td>
<td>Prof. Dr. rer. pol. Andreas Pfnür</td>
<td>Lecture and practice</td>
<td>2</td>
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</tbody>
</table>
Module name
Introduction to Law

Module nr.
01-40-1033/f
Credit points
3 CP
Workload
90 h
Self-study
60 h
Module duration
1 Term
Module cycle
Every Semester

Language
German/English
Module owner
Prof. Dr. jur. Janine Wendt

1 Teaching content
The lecture provides a broad insight into the most important legal fields of daily life - e.g.:
- The law of sales contracts
- Tenancy law
- Family law
- Employment law
- Corporate law etc.
These will be illustrated by means of practical cases. Important points of how to frame a contract will be discussed.

2 Learning objectives
The students will acquire knowledge of the basic principles of German civil law.

3 Recommended prerequisites for participation
None

4 Form of examination
Module exam:
- Module exam (Technical examination, Examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading
Module exam:
- Module exam (Technical examination, Examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References
BGB-Gesetzestext (z.B. Beck-Texte im dtv)
Materialien zum Download auf der Homepage des Fachgebiets.

Courses

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Instructor
Prof. Dr. jur. Janine Wendt
Module name
Introduction to Business Administration

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<thead>
<tr>
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<th>Module cycle</th>
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<td>90 h</td>
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</thead>
<tbody>
<tr>
<td>German</td>
<td>Prof. Dr. rer. pol. Dirk Schiereck</td>
</tr>
</tbody>
</table>

1 Teaching content
This course serves as an introduction into studies of business administration for students of other sciences. The course will provide a broad spectrum of knowledge from the "birth" of business administration as an university science field until its fragmentation into many specialized disciplines. Core topics will include basics of business administration (definitions and German legal forms), some Marketing concepts, introduction into Production Management (business process optimization and quality management), basic knowledge of organisational and personnel related topics, fundamental concepts of finance and investment as well as internal and external reporting standards.

2 Learning objectives
The course encourages students who have not been confronted with business studies before to think economically. Furthermore, it should enable students to better understand actions of managers and corporations in general.

After the course students are able to
• comprehend the development in the history of business administration,
• apply essential marketing concepts,
• use fundamental methods in production management,
• economically valuate investment alternatives and
• understand important interrelations in financial accounting.

3 Recommended prerequisites for participation
None

4 Form of examination
Module exam:
• Module exam (Technical examination, Examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the examination

6 Grading
Module exam:
• Module exam (Technical examination, Examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

Further literature will be announced in the lecture.
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<thead>
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Module name
Introduction to Economics (V)

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<th>Module cycle</th>
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<td>90 h</td>
<td>60 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
German

Module owner
Prof. Dr. rer. pol. Michael Neugart

1 Teaching content
The course introduces to the principles of economics and its applications.
Microeconomics
• Optimizing: the best you can do
• Demand, supply and equilibrium
• Consumers and incentives
• Producers and incentives
• Perfect competition and the invisible hand
• Trade
Macroeconomics
• The wealth of nations: defining and measuring macroeconomic aggregates
• World inequality
• Economic growth
• Employment and unemployment
• Credit markets
• The monetary system
• Short-run fluctuations

2 Learning objectives
After the course students are able to
• apply their knowledge on the principles of economic analyses to selected topics.
• explain price behavior in markets.
• understand why competitive markets lead to efficiency.
• describe the gains of trade.
• assess to which extent the gross domestic product measures the wealth of nations.
• identify the drivers of economic growth and economic cycles.
• evaluate the importance and social responsibility of entrepreneurial activities.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
• Module exam (Technical examination, Examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading
Module exam:
• Module exam (Technical examination, Examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)
| 9 | **References**  

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Module name
HIGHEST lecture series - From the concept to your own company

<table>
<thead>
<tr>
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<th>Workload</th>
<th>Self-study</th>
<th>Module duration</th>
<th>Module cycle</th>
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<tr>
<td>01-27-0Z01</td>
<td>2 CP</td>
<td>60 h</td>
<td>60 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
German

Module owner
Prof. Dr. rer. pol. Carolin Bock

1 Teaching content
The HIGHEST lecture series introduces students to the process of founding a startup. The aim of the lecture is to raise students' awareness of startup-related topics and entrepreneurial thinking. Various topics of the multi-layered start-up process are discussed and underpinned by numerous exciting examples from practice. The aim is to convey contents that are helpful for a successful founding process and enable entrepreneurial action.

Exemplary topics are:
• writing a business plan, financing, grants and funding programs, founder skills, founder teams,
• idea generation, innovations, investors, creative techniques, marketing and sales in startups,
• ecosystems and networks, legal, social entrepreneurship and more.

Among other things, the lecture series will address these questions:
• What is innovation, and what are the paths to commercialization?
• How does an innovation become a business idea and ultimately a company?
• How do I know I'm a founder?
• What skills and competencies does a founding team need? Who do I involve and who not?
• How do I build a business?
• How do I lead a team?
• How do I get customers?
• How do I do business with other companies?
• What (legal) measures are there to protect my idea or research result?
• What financing options, funding programs or support services are available?
• What should I look out for when approaching financiers and Venture Capitalists?
• How do I negotiate conditions skillfully?
• What are positive examples, pioneers or unicorns and what can I learn from them?

Numerous speakers will be integrated into the lectures to share their experience and ensure a high level of practical relevance.

2 Learning objectives
Through the course, students are better able to assess their own abilities as founders. Students know the opportunities and challenges of the startup process. Students know the individual steps of a startup process and are supported and motivated to pursue their own startups. Students know the network and environment of the TU Darmstadt and know where they can get which support.

3 Recommended prerequisites for participation
The lecture series is suitable for all students (Bachelor/Master) and does not require any special knowledge.

4 Form of examination
Module exam:
• Module exam (Study achievement, Oral/written examination, p/np RS)
Supplement to Assessment Methods:
Oral/written: Type and duration of exam are announced by the beginning of the course
Written: exam (duration 60 - 90 minutes)
Oral: team or individual exam (duration 15 - 20 minutes per participant)

5 Prerequisite for the award of credit points
Passing the examination

6 Grading
### Module exam:
- Module exam (Study achievement, Oral/written examination, Weighting: 100 %)

### Usability of the module
General Catalogue of the Department of Law and Economics

### Grade bonus compliant to §25 (2)

### References
Will be announced in the course.

### Courses

<table>
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<tr>
<th>Course nr.</th>
<th>Course name</th>
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<th>SWS</th>
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<tbody>
<tr>
<td>01-27-0Z01-vl</td>
<td>HIGHEST lecture series - From the concept to your own company</td>
<td>Prof. Dr. rer. pol. Carolin Bock</td>
<td>Lecture</td>
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</table>
### Module name
Introduction to Entrepreneurship

<table>
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<th>Workload</th>
<th>Self-study</th>
<th>Module duration</th>
<th>Module cycle</th>
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<tbody>
<tr>
<td>01-27-1B01</td>
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<td>45 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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<table>
<thead>
<tr>
<th>Language</th>
<th>Module owner</th>
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</thead>
<tbody>
<tr>
<td>English</td>
<td>Prof. Dr. rer. pol. Carolin Bock</td>
</tr>
</tbody>
</table>

1 **Teaching content**
The course "Introduction to Entrepreneurship" (Introduction to Entrepreneurship), being part of the module "Introduction to Entrepreneurship" introduces concepts of entrepreneurship relying on basic concepts and definitions. Hereby, a global and international perspective is taken. The course includes the topics: actions of entrepreneurs, their motivations and idea generating processes, effectuation and causation, their decision-making, and entrepreneurial failure. Concerning entrepreneurial businesses, business planning, growth models, strategic alliances of young ventures, and human and social capital of entrepreneurs are discussed. Further, special types of entrepreneurship are taught. In addition, workshops will give students an insight into practical methods such as design thinking and the implementation and identification of opportunities.

2 **Learning objectives**
After the course students are able to
- define and describe basic concepts towards entrepreneurship and apply it to case studies,
- understand the psychologically-related concepts of being an entrepreneur,
- understand and describe the evolution from small firms to multinational enterprises,
- describe special types of entrepreneurship and apply it to case studies,
- understand basic concepts of entrepreneurial thinking towards idea- and business model creation and apply it to science, economy, and administration,
- realize business opportunities and build sustainable business models with societal relevance,
- evaluate chances and risks of national and international markets as well choosing among various market entry strategies,
- incorporate stakeholder feedback into the business model.

3 **Recommended prerequisites for participation**
Prerequisites: none
Previous Knowledge: see initial skills and basics in business administration

4 **Form of examination**
Module exam:
- Module exam (Technical examination, Written examination, Duration: 60 Min., Default RS)

5 **Prerequisite for the award of credit points**
Passing the Examination

6 **Grading**
Module exam:
- Module exam (Technical examination, Written examination, Weighting: 100 %)

7 **Usability of the module**
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 **Grade bonus compliant to §25 (2)**

9 **References**

More literature will be provided within the course and distributed to the students accordingly

<table>
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<tr>
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<th>Course name</th>
<th>Type</th>
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<tbody>
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<td>Introduction to Entrepreneurship</td>
<td>Lecture</td>
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</table>

Instructor
Prof. Dr. rer. pol. Carolin Bock
Module name
Introduction to Innovation Management

<table>
<thead>
<tr>
<th>Module nr.</th>
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<th>Self-study</th>
<th>Module duration</th>
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<tbody>
<tr>
<td>01-22-2B01</td>
<td>3 CP</td>
<td>90 h</td>
<td>60 h</td>
<td>1 Term</td>
<td>Every Semester</td>
</tr>
</tbody>
</table>

Language
English

Module owner
Prof. Dr. Alexander Kock

1 Teaching content
The lecture offers students an introduction to the topic of innovation management in companies. In times of disruptive and radical innovations, well-founded knowledge in innovation management is an elementary core competence of companies in order to stay competitive. After learning the conceptual basics, students learn about managing the different stages of the innovation process, from initiative to the adoption of an innovation. In addition, strategic aspects and the human side of innovation management will be introduced. The lecture thus forms an excellent thematic orientation and introduction for undergraduate students for the advanced courses of the master studies.

2 Learning objectives
After the course students are able to
• give an overview of the components of the innovation process and management.
• identify and evaluate problems that arise in the management of innovations.
• explain, evaluate and apply theories of technology and innovation management.
• assess the basic design factors of a firm's innovation system.
• derive actions to improve innovation processes in companies.
• apply the concepts to practice-relevant questions.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills and basics in business administration

4 Form of examination
Module exam:
• Module exam (Technical examination, Written examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
• Module exam (Technical examination, Written examination, Weighting: 100 %)

7 Usability of the module
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 Grade bonus compliant to §25 (2)

9 References

Further literature will be announced in the lecture.

Courses
<table>
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<tr>
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<tr>
<td>01-22-2B01-vl</td>
<td>Introduction to Innovation Management</td>
<td>Prof. Dr. Alexander Kock</td>
<td>Lecture</td>
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</table>
Module name
Management of value-added networks

<table>
<thead>
<tr>
<th>Module nr.</th>
<th>Credit points</th>
<th>Workload</th>
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<tr>
<td>01-12-0B02</td>
<td>4 CP</td>
<td>120 h</td>
<td>75 h</td>
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<th>Language</th>
<th>Module owner</th>
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</thead>
<tbody>
<tr>
<td>German</td>
<td>Prof. Dr. rer. pol. Ralf Elbert</td>
</tr>
</tbody>
</table>

1 Teaching content
The students get an overview of the management of value-added networks. The fundamentals and theories of international management will be covered as well as strategy and strategy design (strategy design at company and business level, strategic analysis, strategic management in multinational companies). Furthermore, fundamentals of organization and organizational design (structural and procedural organization, organization of international networks) are discussed. Regarding methodological knowledge for the management of value-added networks, the fundamentals of planning and decision-making (decision theories and decision techniques) as well as an introduction to simulation modeling is provided to the students.

2 Learning objectives
After the course students are able to
- reproduce basic knowledge on the management of value-added networks
- analyse and solve basic practical problems and tasks using scientific methods independently.
- apply different decision techniques in real-world examples establish links between the basic knowledge on the management of value-added networks and further courses in business economics
- reproduce the concepts of strategy design conveyed at different levels and to apply them in the context of practice
- reproduce the concepts of strategy design conveyed at different levels and to apply them in the context of practice
- understand and reproduce different models for structural and procedural organization

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
- Module exam (Technical examination, Written examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the examination

6 Grading
Module exam:
- Module exam (Technical examination, Written examination, Weighting: 100 %)

7 Usability of the module
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 Grade bonus compliant to §25 (2)

9 References
Further literature will be announced in the lecture.

<table>
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<th>Type</th>
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<td>01-12-0001-vu</td>
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<td>Prof. Dr. rer. pol. Ralf Elbert</td>
<td>Lecture</td>
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Module name
Human Resources Management

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Language
German

Module owner
Prof. Dr. Dr. Ruth Stock-Homburg

1 Teaching content
Students gain a comprehensive insight into the fundamentals of HR management. They learn about selected approaches to designing employee flow and reward systems and are able to classify and critically evaluate them. In addition, students gain an insight into the strategic and organizational embedding of HR management in corporate contexts. The course also looks at current challenges and innovative topics in HR management, such as digitalization and artificial intelligence. Students are also taught scientific and working methods that enable them to independently solve practical problems and tasks.

2 Learning objectives
After the courses the students are able to
• understand and explain the basics of HR management and apply them independently on the basis of legal requirements and scientific findings.
• classify and critically evaluate selected approaches to the design of employee flow systems and reward systems.
• assess and communicate new challenges in HR management with regard to social and ethical responsibility in the corporate context.
• classify the concepts covered with regard to their relevance in business practice and apply the specialist knowledge acquired in practice.
• develop and deepen new content with the help of learned methods and working techniques and apply these in a project-oriented manner.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills and basics in business administration

4 Form of examination
Module exam:
• Module exam (Technical examination, Written examination, Duration: 90 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
• Module exam (Technical examination, Written examination, Weighting: 100 %)

7 Usability of the module
B.Sc. Wirtschaftsingenieurwesen, B.Sc. Wirtschaftsinformatik

8 Grade bonus compliant to §25 (2)

9 References
Pflichtliteratur:

Vertiefende Literatur:

Weitere Literatur wird in der Veranstaltung bekanntgegeben. / Further literature will be announced in the lecture.

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3.2 EI - Lectures (Continuing Modules) - only in the Master programs

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<tr>
<td>Module cycle</td>
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<tr>
<td>Language</td>
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</tr>
<tr>
<td>Module owner</td>
<td>Prof. Dr. Dr. Ruth Stock-Homburg</td>
</tr>
</tbody>
</table>

1 Teaching content

Digital Product and Service Marketing: Selected topics in the context of digital marketing; including micro and macro environment, digital marketing strategies, the digital marketing mix, digital relationship marketing, communication strategies and channels for digital customers, and evaluation of approaches.

Digital Innovation Marketing: Selected topics in the context of digital innovation marketing, including basic information about innovation, key innovation strategies; important theoretical concepts of innovation management; customer integration in the innovation process; and new innovation types, such as user innovation.

2 Learning objectives

After the course students are able to

- recognize the role of digitization and the resulting future challenges and innovative technologies for marketing and to estimate an appropriately consider potentials.
- evaluate approaches in the context of digital marketing.
- explain different phases and tools for digital marketing.
- explain the process and the organizational design elements of a holistic and customer-oriented innovation management.
- recognize the potential of user innovations and co-opetition
- critically reflect on ethical aspects of marketing and evaluate possible consequences.
- develop a critical understanding on the basis of the concepts and instruments dealt with to practice-oriented questions using specific practical and theoretical examples.
- transfer the learned contents to business practice through guest lectures.

3 Recommended prerequisites for participation

Marketing

Sufficient English skills to follow the lecture in English and to understand and answer the English-language written exam.

4 Form of examination

Module exam:
- Module exam (Technical examination, Oral/written examination, Default RS)

Supplement to Assessment Methods

Oral/written: Type and duration of exam are announced by the beginning of the course
Written: exam (duration 60 - 90 minutes)
Oral: team or individual exam (duration 15 - 20 minutes per participant)

5 Prerequisite for the award of credit points

Passing the Examination

6 Grading

Module exam:
- Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

Digital Product and Service Marketing:

Digital Innovation Marketing:

Further literature will be announced in the lecture.

Courses

<table>
<thead>
<tr>
<th>Course nr.</th>
<th>Course name</th>
<th>Instructor</th>
<th>Type</th>
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<tr>
<td>01-17-0005-vu</td>
<td>Digital Product and Service Marketing</td>
<td>Prof. Dr. Dr. Ruth Stock-Homburg</td>
<td>Lecture and practice</td>
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<tr>
<td>01-17-0007-vu</td>
<td>Digital Innovation Marketing</td>
<td>Prof. Dr. Dr. Ruth Stock-Homburg</td>
<td>Lecture and practice</td>
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</table>
Module name
Leadership and Human Resource Management Systems

<table>
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<tr>
<th>Module nr.</th>
<th>Credit points</th>
<th>Workload</th>
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<td>01-17-6201/6</td>
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<td>180 h</td>
<td>120 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
English

Module owner
Prof. Dr. Dr. Ruth Stock-Homburg

1 Teaching content
Leadership:
• Central approaches and theories of employee and team leadership
• Methods of leadership research
• Success factors of employee leadership
• Leadership of the future
• Special application areas of leadership (e.g. regional, distributed, or virtual leadership)

Future of Work:
• Influence of new technologies and digitization on the world of work
• Future development and design approaches in human resources management
• Approaches to measuring the sustainability of companies and individuals
• Special challenges of the future of work (e.g. telework/well-being, electronic accessibility, new technologies)

2 Learning objectives
After the course students are able to...
• explain, compare and contrast the key theoretical concepts of employee and team leadership.
• apply the instruments, resources, and tools available for leading employees and teams.
• assess the challenges of leading employees and teams in an international environment.
• assess the social and ethical responsibility of employee and team leadership and to critically reflect on possible consequences.
• explain important theories, techniques, and concepts about the future of work.
• recognize future problems, innovative technologies and scientific developments and take them into account appropriately.
• interpret and reflect on important parameters for the Future Fitness of employees, leaders, and companies.
• better assess where they personally stand in terms of their individual Future Fitness and face the future of work with curiosity.
• reflect on challenges in the future of work.
• apply learned concepts and instruments in case studies and team work.
• connect their knowledge to business cases in presentations of experienced practitioners.

3 Recommended prerequisites for participation
Sufficient English skills to follow the lecture in English and to understand and answer the English-language written exam.

4 Form of examination
Module exam:
• Module exam (Technical examination, Oral/written examination, Default RS)

Supplement to Assessment Methods
Oral/written: Type and duration of exam are announced by the beginning of the course
Written: exam (duration 60 - 90 minutes)
Oral: team or individual exam (duration 15 - 20 minutes per participant)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
  • Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

Further literature will be announced in the lecture.

Courses

<table>
<thead>
<tr>
<th>Course nr.</th>
<th>Course name</th>
<th>Instructor</th>
<th>Type</th>
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<tr>
<td>01-17-0004-vu</td>
<td>Leadership</td>
<td>Dr. rer. pol. Gisela Gerlach</td>
<td>Lecture and practice</td>
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<tr>
<td>01-17-0008-vu</td>
<td>Future of Work</td>
<td>Prof. Dr. Dr. Ruth Stock-Homburg</td>
<td>Lecture and practice</td>
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Module name
Master Seminar

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<td>180 h</td>
<td>150 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
German

1 Teaching content
Specific topics in a focus area law and economics or informations management.

2 Learning objectives
After the course/s the students are able to
- identify a specific topic in the fields of business studies, economics or law or information management and elaborate it by means of scientific methods.
- research, identify and exploit relevant literature (particularly research literature in English).
- structure the topic and establish a line of arguments.
- evaluate pros and cons in a comprehensible way.
- record the results according to scientific criteria.
- present the topic to the group and discuss it.

3 Recommended prerequisites for participation
Background knowledge: see initial skills and defined by individual examiner and announced in advance.

4 Form of examination
Course related exam:
- [01-01-0M01-se] (Technical examination, Presentation, Default RS)
Supplement to Assessment Methods
Written paper and presentation (participation in discussion)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Course related exam:
- [01-01-0M01-se] (Technical examination, Presentation, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References
Bänsch, A.: Wissenschaftliches Arbeiten: Seminar- und Diplomarbeiten
Theissen, M.R.: Wissenschaftliches Arbeiten: Technik, Methodik, Form

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Module name
Sustainable Management

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<td>01-42-0M02/6</td>
<td>6 CP</td>
<td>180 h</td>
<td>120 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
German

Module owner
Prof. Dr. jur. Janine Wendt

1 Teaching content
Sustainability and corporate law - definitions and implications of sustainability: conceptualisation through the Brundtland Report as well as the Rio Earth Summit and follow-up summits; conceptual consolidation and Agenda 2030; central features of the concept of sustainability - corporate law as an obstacle or promoter of sustainability - significance of the corporate governance discussion - the shareholder value model: criticism and alternative models - corporate law promotion of sustainability: sustainability and executive remuneration; social responsibility (CSR), supply chain legislation in Germany and Europe; climate change litigation; sustainable finance and social entrepreneurship


2 Learning objectives
After the course students are able to

- distinguish and derive different definitions and conceptualisations of sustainability,
- assess whether corporate law can be judged as an obstacle or a promoter of sustainability,
- present criticism and alternative models of the shareholder value model,
- present different approaches to corporate law promotion of sustainability, including regulation of executive remuneration, social responsibility (CSR) and supply chain legislation in Germany and Europe,
- discuss the main features of climate change litigation,
- classify Sustainable Finance and Social Entrepreneurship,
- understand the tasks, objectives and problems of sustainability management in companies
- understand the tasks, objectives and problems of sustainability management in companies and thus also assess the social and ethical responsibility of their (future) activities and critically reflect on possible consequences, in particular social and ecological consequences
- assess the design, opportunities and challenges of management systems
- assess the possibilities and limitations of the different instruments of quality and environmental management
- critically analyze approaches from business practice.
- apply their comprehensive understanding of sustainability aspects in companies based on the latest knowledge in an application and research-oriented manner and work on interdisciplinary topics. These skills are taught in particular by working on case studies on current topics in teams.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
- Module exam (Technical examination, Oral/written examination, Default RS)

Supplement to Assessment Methods
Oral/written: Type and duration of exam are announced by the beginning of the course
Written: exam (duration 60 - 90 minutes)
Oral: team or individual exam (duration 15 - 20 minutes per participant)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
- Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References
Mittwoch, Nachhaltigkeit und Unternehmensrecht (2022)

Further literature will be announced in the lecture.

Courses

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<td>Prof. Dr. jur. Janine Wendt</td>
<td>Lecture and practice</td>
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Module name
Project Management

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<th>Module nr.</th>
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<td>180 h</td>
<td>120 h</td>
<td>1 Term</td>
<td>Every Semester</td>
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</table>

Language
English

Module owner
Prof. Dr. rer. pol. Andreas Pfnür

1 Teaching content
Project management I: Basics of planning and decision making for projects, project goals, generation of project alternatives, separation basics in configuration management, project definition, program - portfolio, stake-holder management and communication, quality management, scope and change management, human re-sources management for projects / project managers
Project management II: Strategic goals, separation and linking of projects; project portfolio planning; multi project management; organizational structures of multi project management; tools to select project alterna-tives; tools for project controlling; project management as professional service.

2 Learning objectives
After the course students are able to
• understand the strategic goals of project management, the methods of choosing realization alternatives and the methods of project controlling
• understand the various subsystems of project management (e.g. Configuration Management, Human Resource Management, Stakeholder Management, Risk Management)
• understand the principles, methods and organization of multi project management
• Apply their broad, detailed and critical understanding of real estate project development, financing and investment to the latest state of knowledge in an application and research-oriented manner and to work in interdisciplinary contexts, particularly with engineers, architects, sociologists and lawyers
• to apply these skills in new and unfamiliar situations with incomplete information and to think in systemic contexts.
• organize and carry out complex projects efficiently and form and lead teams in a targeted manner.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
• Module exam (Technical examination, Oral/written examination, Default RS)
Supplement to Assessment Methods
Oral/written: Type and duration of exam are announced by the beginning of the course
Written: exam (duration 60 - 90 minutes)
Oral: team or individual exam (duration 15 - 20 minutes per participant)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
• Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)
### References

Literature will be announced in the lecture.

### Courses

<table>
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<tr>
<th>Course nr.</th>
<th>Course name</th>
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<td>Project Management I</td>
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<td>Lecture and practice</td>
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<td></td>
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<td>Prof. Dr. Alexander Kock</td>
<td></td>
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<tr>
<td>01-19-0003-vu</td>
<td>Project Management II</td>
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Module name
Technology and Innovation Management

<table>
<thead>
<tr>
<th>Module nr.</th>
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<th>Self-study</th>
<th>Module duration</th>
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<tr>
<td>01-22-0M05/6</td>
<td>6 CP</td>
<td>180 h</td>
<td>120 h</td>
<td>1 Term</td>
<td>Every Semester</td>
</tr>
</tbody>
</table>

Language
English

Module owner
Prof. Dr. Alexander Kock

1 Teaching content
The lecture Technology and Innovation Management is designed for the students to learn about the challenges of managing innovation. Organizational change and innovation are the basic requirements for competitiveness and success of businesses. However, in most industries innovation is often paired with organizational challenges and barriers. In this lecture, students get to know the fundamental concepts and design of Innovation Management and the innovation process (form initiative to implementation), as well as the interaction of central actors. Furthermore, this lecture provides insights into the specialisations Innovation Behaviour and Strategic Technology and Innovation Management.

2 Learning objectives
After the course students are able to
- identify and evaluate problems emerging from managing innovation.
- Evaluate fundamental design factors of corporate innovation systems.
- derive improvement procedures for innovation processes in firms.
- apply tools of technology and innovation management.
- make relevant recommendations for corporate practice.
- critically and interdisciplinarily apply and transfer current knowledge of the Innovation Management field.

3 Recommended prerequisites for participation
Prerequisites: none
Previous Knowledge: see initial skills

4 Form of examination
Module exam:
- Module exam (Technical examination, Oral/written examination, Default RS)
Supplement to Assessment Methods
Oral/written: Type and duration of exam are announced by the beginning of the course
Written: exam (duration 60 - 90 minutes)
Oral: team or individual exam (duration 15 - 20 minutes per participant)

5 Prerequisite for the award of credit points
Passing the Examination

6 Grading
Module exam:
- Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

Courses
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<td>Prof. Dr. Alexander Kock</td>
<td>Lecture and practice</td>
<td>4</td>
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</tbody>
</table>
4 Engineering and natural sciences

Modules of dep. 4, 5, 7, 10, 11, 13, 15, 16 and 20 (Complete catalogs), except for the iST study programs, restricted catalogue of department 15, no modules of department 16 in the Mechatronic study programs. In addition, the complete catalogs of the departments often only include a selection of modules that are offered for other departments.
5 Languages, soft skills

5.1 Languages

Modules of the Language Resource Center

5.2 Soft Skills

<table>
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<tr>
<th>Module name</th>
<th>Application in Teaching (Tutor Activities)</th>
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<td>18-de-1999</td>
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<td>Module cycle</td>
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<table>
<thead>
<tr>
<th>Language</th>
<th>German</th>
</tr>
</thead>
</table>

| Module owner | Prof. Dr.-Ing. Harald Klingbeil |

1 Teaching content

**Qualification phase:**

- Reflection of the role of subject or internship tutors
- Getting to know the principle of minimal help (PdmH)
- Practice the application of the PdmH on a MINT example
- Getting to know principles of good explanation
- Create understanding of group processes and consider design of initial situation in Tutorium
- Gathering ideas for dealing with difficult situations in the Tutorium

**Deployment phase:**

- Preparation and implementation of practice groups or a practical course
- Supervised practice reflection

2 Learning objectives

After attending the course, students will be able to:

- apply the principle of minimal assistance,
- instruct and supervise practice/internship groups,
- understand group processes,
- handle difficult situations and practice or internship groups,
- reflect on the role of subject or internship tutors.

3 Recommended prerequisites for participation

4 Form of examination
### Course related exam:

- [18-me-8999-tt] (Study achievement, Special form, p/np RS)
- [18-dg-8999-tt] (Study achievement, Special form, p/np RS)
- [18-sc-8999-tt] (Study achievement, Special form, p/np RS)
- [18-pe-8999-tt] (Study achievement, Special form, p/np RS)
- [18-sm-8999-tt] (Study achievement, Special form, p/np RS)
- [18-ha-8999-tt] (Study achievement, Special form, p/np RS)
- [18-hs-8999-tt] (Study achievement, Special form, p/np RS)
- [18-ho-8999-tt] (Study achievement, Special form, p/np RS)
- [18-gr-8999-tt] (Study achievement, Special form, p/np RS)
- [18-hb-8999-tt] (Study achievement, Special form, p/np RS)
- [18-su-8999-tt] (Study achievement, Special form, p/np RS)
- [18-bt-8999-tt] (Study achievement, Special form, p/np RS)
- [18-mu-8999-tt] (Study achievement, Special form, p/np RS)
- [18-jk-8999-tt] (Study achievement, Special form, p/np RS)
- [18-ja-8999-tt] (Study achievement, Special form, p/np RS)
- [18-kb-8999-tt] (Study achievement, Special form, p/np RS)
- [18-fi-8999-tt] (Study achievement, Special form, p/np RS)
- [18-zh-8999-tt] (Study achievement, Special form, p/np RS)
- [18-bf-8999-tt] (Study achievement, Special form, p/np RS)
- [18-gt-8999-tt] (Study achievement, Special form, p/np RS)
- [18-bu-8999-tt] (Study achievement, Special form, p/np RS)
- [18-kp-8999-tt] (Study achievement, Special form, p/np RS)
- [18-kn-8999-tt] (Study achievement, Special form, p/np RS)
- [18-kc-8999-tt] (Study achievement, Special form, p/np RS)
- [18-kh-8999-tt] (Study achievement, Special form, p/np RS)
- [18-ad-8999-tt] (Study achievement, Special form, p/np RS)
- [18-st-8999-tt] (Study achievement, Special form, p/np RS)
- [18-pr-8999-tt] (Study achievement, Special form, p/np RS)
- [18-de-8999-tt] (Study achievement, Special form, p/np RS)
- [18-kl-8999-tt] (Study achievement, Special form, p/np RS)
- [18-zo-8999-tt] (Study achievement, Special form, p/np RS)

### Prerequisite for the award of credit points

Passing the final module examination

### Grading
Course related exam:

- [18-me-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-dg-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-sc-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-pe-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-ha-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-hs-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-ho-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-gr-8999-tt] (Study achievement, Special form, Weighting: 100 %)
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- [18-jk-8999-tt] (Study achievement, Special form, Weighting: 100 %)
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- [18-zh-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-bf-8999-tt] (Study achievement, Special form, Weighting: 100 %)
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- [18-bu-8999-tt] (Study achievement, Special form, Weighting: 100 %)
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- [18-kc-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kh-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-ad-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-st-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-pr-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-de-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kl-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-zo-8999-tt] (Study achievement, Special form, Weighting: 100 %)

7 Usability of the module

8 Grade bonus compliant to §25 (2)

9 References

## Courses

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<td>Einsatz in der Lehre (Tutor_innentätigkeiten)</td>
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<table>
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<tr>
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<tr>
<td>Prof. Dr.-Ing. Jürgen Adamy</td>
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<td>Prof. Dr. Oliver Boine-Frankenheim</td>
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6 Insight into professional life

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<tr>
<td>Module owner</td>
<td>Prof. Dr. Mario Kupnik</td>
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1 Teaching content
During the excursion SAE (duration 5 days) several companies working on electrical engineering and information technology and other fields will be visited. Students can become acquainted with close-to-reality examples. Working fields of an electrical engineer can be assessed, with technical- or organizational aspects and conditions of work as the main target. By the attendance of several companies in successive days, a comparison becomes possible. During the excursion the group is accommodated in e.g. hostels.

2 Learning objectives
Upon completion of the module, students will understand and be able to concisely describe products and production processes in micro and precision engineering of relevant industrial companies.

3 Recommended prerequisites for participation

4 Form of examination
Module exam:
- Module exam (Study achievement, Report, p/np RS)

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading
Module exam:
- Module exam (Study achievement, Report, Weighting: 100 %)

7 Usability of the module
B.Sc. WI-etit, B.Ed. etit

8 Grade bonus compliant to §25 (2)

9 References

Courses
<table>
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<td>Prof. Ph.D. Thomas Burg, Prof. Dr.-Ing. Klaus Hofmann, Prof. Dr.-Ing. Tran Quoc Khanh, Prof. Dr. Mario Kupnik</td>
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Module name
Work and Process Organization

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<td>16-21-5030</td>
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<td>Every 2. Semester</td>
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Language
German

Module owner
Dr.-Ing. Christopher Stockinger

1 Teaching content
1. Introduction
2. Human-Technology-Organization
3. Systems Approach
4. Digitization
5. Organizational Structure and Process Organization
6. Working Time and Flexibilization
7. Teamwork
8. Diversity
9. Leadership

2 Learning objectives
On successful completion of this module, students should be able to:
1. Differentiate and compare the economic and humanitarian objectives to each other in job design.
2. Describe and assess the essential elements of job design from an ergonomic point of view.
3. Describe the MTO approach (human-technology-organization) and the systems approach.
4. Describe how the digitalization of work affects people and the organization and what implications of work design follow from this.
5. Describe the different forms of organizational structures and workflows, to present their advantages and disadvantages and to select them for a given task.
6. Distinguish and discuss working time models and flexibilization approaches as well as their effects on work design.
7. Apply design recommendations for teamwork.
8. Distinguish and discuss role and dimensions of diversity, especially with regard to teamwork.
9. Explain, assess and apply motivation and leadership models.

3 Recommended prerequisites for participation

4 Form of examination
Module exam:
- Module exam (Technical examination, Examination, Duration: 90 Min., Default RS)
Written exam 90 min

5 Prerequisite for the award of credit points
Passing the examination

6 Grading
Module exam:
- Module exam (Technical examination, Examination, Weighting: 100 %)

7 Usability of the module
WPB Master MPE II (Kernlehrveranstaltung aus dem Maschinenbau)
Master MB II SP DbPR
WPB Master PST III (Fächer aus Natur- und Ingenieurwissenschaft für Papiertechnik)

8 Grade bonus compliant to §25 (2)

9 References
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Module name
Human Factors/Ergonomics

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<td>Dr. Ing. Bettina Abendroth</td>
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1 **Teaching content**
Concepts and models of ergonomics, working systems, stress and strain, performance conditions of humans, work environment, physiological job design. Application area: design of products, working in the production and service sector.

2 **Learning objectives**
On successful completion of this module, students should be able to:
1. Describe the objectives and the principles of ergonomics.
2. Perform systems analysis work (on the basis of the skills of analysing, measuring, assessing, and designing human work).
3. Identify human performance requirements and classify physical and mental work and combinations thereof.
4. Explain principles of measurement for detection of environmental burdens and the impact of these burdens on people.
5. Describe methods for measuring stress and strain and their application areas.
6. Distinguish the various design fields (anthropometric, physiological, technical movement, information technology, safety technology, organisational, etc.) and apply some methods from these areas of design.

3 **Recommended prerequisites for participation**

4 **Form of examination**
Module exam:
- Module exam (Technical examination, Examination, Duration: 90 Min., Default RS)
Written exam 90 min

5 **Prerequisite for the award of credit points**
Passing the examination

6 **Grading**
Module exam:
- Module exam (Technical examination, Examination, Weighting: 100 %)

7 **Usability of the module**
WPB Master MB II (Kernlehrveranstaltung aus dem Maschinenbau)
Master MB II SP FAS
WPB Master PST III (Fächer aus Natur- und Ingenieurwissenschaft für Papiertechnik)
Studierende der Psychologie, Pädagogik und (Wirtschafts-)Ingenieurwesen

8 **Grade bonus compliant to §25 (2)**

9 **References**
Lecture notes available on the internet (https://moodle.tu-darmstadt.de),
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Module name
Standardization, Testing and Approvals in the Electrotechnical Area

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Language
German

Module owner
Prof. Dr.-Ing. Gerd Griepentrog

1 Teaching content
In the European Union (EU), the fundamental requirements for electrical equipment, such as safety and electromagnetical compatibility (EMC) including functionality, are stipulated in EC Directives and by national implementation in laws and decrees. These requirements take shape in harmonized standards. The manufacturer or his authorized agent resident in the EU or, as the case may be, the user of the equipment has to show compliance with the requirements by means of
• Own tests or
• Tests carried out by an independent neutral testing laboratory.

During the lecture, these criteria are considered with respect to the following topics:
• Product safety law (ProdSG)
• Energy promotion law (EnWG)
• Law on electromagnetical compatibility of equipment (EMVG)
• Telecommunications law (TKG)
• Explosion-protection decree
• VDE Association for Electrical, Electronic and Information Technologies e.V. and DKE German Commission for Electrical, Electronic & Information Technologies in DIN and VDE
• Standardization:
  – On national level by DIN and DKE
  – In Europe by CENELEC (= European Committee of Electrotechnical Standardization)
• Application of regulation on the basis of case studies:
  – Case study 1: Functional Safety
  – Case Study 2: Protection against electric shock
  – Case Study 3: Information security

2 Learning objectives
After completing the module students are aware of connections between basic requirements given by law and technical standards for research and development of electrotechnical equipment. As an outcome the participants will know the basic requirements for safety and reliability of such products.

3 Recommended prerequisites for participation

4 Form of examination
Module exam:
• Module exam (Technical examination, Oral examination, Duration: 30 Min., Default RS)

5 Prerequisite for the award of credit points
Passing the final module examination

6 Grading
Module exam:
• Module exam (Technical examination, Oral examination, Weighting: 100 %)

7 Usability of the module
M.Sc. ESE
8 Grade bonus compliant to §25 (2)

9 References

- Link für EG-Richtlinien: eur-lex.europa.eu/de/index.htm

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### Module name
Patents - How to Protect Technical Inventions

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**Language**
German

**Module owner**
Prof. Dr.-Ing. Rolf Findeisen

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1. **Teaching content**
Within the scope of this lecture aspects of national and international patent law as well as aspects of the law on employee will be treated as follows:
   - German, European and international filing procedures and their legal prerequisites (formal and substantive patent law)
   - Enforcement of technical property rights
   - Infringement of technical property rights
   - Law on employee invention - rights and obligations of employees and employers

2. **Learning objectives**
After completing the module, students will be able to deal with basic patent law issues and will have gained insight into patent law practice.

3. **Recommended prerequisites for participation**

4. **Form of examination**
Module exam:
   - Module exam (Technical examination, Oral/written examination, Duration: 90 Min., Default RS)

The examination takes place in form of a written exam (duration: 90 minutes). If one can estimate that less than 5 students register, the examination generally will be an oral examination (duration: 20 min.). The type of examination will be announced in the beginning of the lecture.

5. **Prerequisite for the award of credit points**
Passing the final module examination

6. **Grading**
Module exam:
   - Module exam (Technical examination, Oral/written examination, Weighting: 100 %)

7. **Usability of the module**
B.Sc. etit

8. **Grade bonus compliant to §25 (2)**

9. **References**
Students will find a compilation of the relevant legal texts in the following book:

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