Studium Generale (PO 2023)

Module handbook
FB 18
Date: 01.03.2024

TECHNISCHE UNIVERSITÄT DARMSTADT

FB 18

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: 01.03.2024

FB 18
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Contents

1 Mentoring

Only in the Bachelor's degree programs

Module name Mentoring					
Module nr. 18-dy-1040	**Credit points** 0 CP	**Workload** 0 h	**Self-study** 0 h	**Module duration** 2 Term	**Module cycle** Winter term
Language German			**Module owner**		

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 consist-ing 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** • Kurt Landau, Arbeitstechniken für Studierende der Ingenieurswissenschaften; Verlag ergonomia oHG, Stuttgart, ISBN 3-935089-65-1 • Kurt Landau, Besser studieren! Übungsbuch zum Werk Arbeitstechniken; Verlag er-gonomia oHG, Stuttgart, ISBN 3-935089-67-X • all required as well as current materials will be provided in the moodle course
Courses	

	Course nr. 18-dy-1040-tt	**Course name** Mentoring		
	Instructor		**Type** Tutorial	**SWS** 0

2 Humanities and Social Sciences Modules (Offers of dep. 2 and 3)

2.1 Modules dep. 2 - History

Module name Optional course Modern History					
Module nr. 02-24-0130	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Jens Engels		

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

	Course nr. 02-04-0130-ue	**Course name** Optional course Modern History		
	Instructor		**Type** Practice	**SWS** 2

Module name Optional course History of Technology					
Module nr. 02-24-0430	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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**

Courses

Course nr. 02-04-0430-ue	**Course name** Optional course History of Technology		
Instructor		**Type** Practice	**SWS** 2

Module name Optional lecture History of Antiquity					
Module nr. 02-24-0201	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Elke Hartmann-Puls		

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** Passing the final module examination
6	**Grading** Course related exam: • [02-04-0201-vl] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-04-0201-vl	**Course name** Optional lecture History of Antiquity		
Instructor		**Type** Lecture	**SWS** 2

Module name Optional lecture Medieval History					
Module nr. 02-24-0301	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Gerrit Schenk		

1	**Teaching content**
2	**Learning objectives**
3	**Recommended prerequisites for participation**
4	**Form of examination** Course related exam: • [02-04-0301-vl] (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: • [02-04-0301-vl] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-04-0301-vl	**Course name** Optional lecture Medieval History		
Instructor		**Type** Lecture	**SWS** 2

Module name Optional lecture Modern History					
Module nr. 02-24-0101	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Jens Engels		

1	**Teaching content**
2	**Learning objectives**
3	**Recommended prerequisites for participation**
4	**Form of examination** Course related exam: • [02-04-0101-vl] (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: • [02-04-0101-vl] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-04-0101-vl	**Course name** Optional lecture Modern History		
Instructor		**Type** Lecture	**SWS** 2

Module name Optional lecture History of Technology					
Module nr. 02-24-0401	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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: • [02-04-0401-vl] (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: • [02-04-0401-vl] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-04-0401-vl	**Course name** Optional lecture History of Technology		
Instructor		**Type** Lecture	**SWS** 2

2.2 Modules dep. 2 - Philosophy

Module name Ethics and Application					
Module nr. 02-21-2027	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Petra Gehring		

1	**Teaching content**
2	**Learning objectives**
3	**Recommended prerequisites for participation**
4	**Form of examination** Course related exam: • [02-11-2027-ku] (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: • [02-11-2027-ku] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

	Course nr. 02-11-2027-ku	**Course name** Ethics and their Application		
	Instructor		**Type** Course	**SWS** 2

Module name Ethics and Technology Assessement					
Module nr. 02-21-2025	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Petra Gehring		

1	**Teaching content**
2	**Learning objectives**
3	**Recommended prerequisites for participation**
4	**Form of examination** Course related exam: • [02-11-2025-ku] (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: • [02-11-2025-ku] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-11-2025-ku	**Course name** Ethics and Evaluation of Technology		
Instructor		**Type** Course	**SWS** 2

Module name Sustainability, Caution, Security					
Module nr. 02-21-2026	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. phil. Petra Gehring		

1	**Teaching content**
2	**Learning objectives**
3	**Recommended prerequisites for participation**
4	**Form of examination** Course related exam: • [02-11-2026-ku] (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: • [02-11-2026-ku] (Study achievement, Oral/written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-11-2026-ku	**Course name** Sustainability, Caution, Security		
Instructor		**Type** Course	**SWS** 2

2.3 Modules dep. 2 - Political Sciences

All modules of the dep. 2 - Political Sciences

2.4 Modules dep. 2 - Sociology

All modules of the dep. 2 - Sociology

2.5 Modules dep. 2 - Linguistics and literature

Module name Digital Philology: Introduction					
Module nr. 02-25-1067	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • [02-25-1067-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: • [02-25-1067-vl] (Study achievement, Written examination, Weighting: 100 %)				
7	**Usability of the module**				
8	**Grade bonus compliant to §25 (2)**				
9	**References**				
Courses					
	Course nr. 02-25-1067-vl	**Course name** Digital Philology: Introduction			
	Instructor		**Type** Lecture	**SWS** 2	

Module name History of Literature					
Module nr. 02-25-1013	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Andrea Rapp		

1	**Teaching content**
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**

Courses

Course nr. 02-15-1013-vl	**Course name** History of Literature		
Instructor		**Type** Lecture	**SWS** 2

Module name History of Language					
Module nr. 02-25-1012	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Marcus Müller		

1	**Teaching content**
2	**Learning objectives**
3	**Recommended prerequisites for participation**
4	**Form of examination** Course related exam: • [02-15-1012-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: • [02-15-1012-vl] (Study achievement, Written examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-15-1012-vl	**Course name** History of Language	
Instructor	**Type** Lecture	**SWS** 2

Module name Lecture Digital Humanities					
Module nr. 02-25-2001	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • [02-25-2001-vl] (Study achievement, Oral examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 02-25-2001-vl	**Course name** Lecture Digital Humanities	
Instructor	**Type** Lecture	**SWS** 2

2.6 Modules dep. 3 - Teaching Export Human Sciences

Module name General Psychology I					
Module nr. 03-03-0041	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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**

Courses

	Course nr. 03-03-00a1-vl	**Course name** Allgemeine Psychologie I		
	Instructor		**Type** Lecture	**SWS** 2

Module name General Psychology II					
Module nr. 03-03-0042	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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**

Courses

Course nr.	**Course name**		
03-03-00b1-vl	Allgemeine Psychologie II		
Instructor		**Type** Lecture	**SWS** 2

Module name Analysis and Synthesis of Human Movements I					
Module nr. 03-04-0580	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • [03-41-0580-se] (Study achievement, Optional, Default RS)
5	**Prerequisite for the award of credit points** Passing the final module examination
6	**Grading** Course related exam: • [03-41-0580-se] (Study achievement, Optional, Weighting: 1)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-41-0580-se	**Course name** Einführung in die biomechanische Bewegungserfassung und -analyse		
Instructor		**Type** Seminar	**SWS** 2

Module name Analysis and Synthesis of Human Movements II					
Module nr. 03-04-0582	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • [03-41-0582-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**

Courses

Course nr. 03-41-0582-se	**Course name** Einführung in die Echtzeit-Kontrolle von aktuierten Systemen		
Instructor		**Type** Seminar	**SWS** 2

Module name Analysis and Synthesis of Human Movements III					
Module nr. 03-04-0584	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 150 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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** Course related exam: • [03-41-0584-se] (Study achievement, Optional, Weighting: 1)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-41-0584-se	**Course name** Konstruktion und Kontrolle von Robotik-Systemen		
Instructor		**Type** Seminar	**SWS** 0

Module name Applied cognitive psychology					
Module nr. 03-03-0050	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • Module exam (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr.	**Course name**		
03-03-0024-vl	Angewandte Kognitionspsychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Work, Organizational, and Business Psychology					
Module nr. 03-03-0047	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Nina Keith		

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: • Module exam (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-03-0010-vl	**Course name** Arbeits-, Organisations- und Wirtschaftspsychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Ästhetik und Inszenierungspraktiken					
Module nr. 03-01-4019	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Alexandra Karentzos		

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., p/np 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**

Courses

Course nr.	**Course name**		
03-01-2003-vl	Modetheorien		
Instructor		**Type** Lecture	**SWS** 2

Module name Berufsbildungstheorie und Berufsbildungsforschung					
Module nr. 03-01-4006	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • 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**

Courses

Course nr.	**Course name**		
03-01-3001-vl	Vocational Education Research and Theory		
Instructor		**Type** Lecture	**SWS** 2

Module name Bildung für verantwortungsbewusste Digitalisierung					
Module nr. 03-01-9050	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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**

Courses

Course nr. 03-01-5109-vl	**Course name** Bildung für verantwortungsbewusste Digitalisierung		
Instructor		**Type** Lecture	**SWS** 2

Module name Differential Psychology and Personal Research					
Module nr. 03-03-0044	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Dr. phil. nat. Udo Keil		

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**

Courses

Course nr.	**Course name**		
03-03-0004-vl	Differentielle und Persönlichkeitspsychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Einführung in die Berufspädagogik					
Module nr. 03-01-9047	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Birgit Ziegler		

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**

Courses

Course nr.	**Course name**		
03-01-0021-vl	Introduction and history of vocational pedagogy		
Instructor		**Type** Lecture	**SWS** 2

Module name Einführung in die Biomechanik					
Module nr. 03-04-1037	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**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: • [03-46-0007-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: • [03-46-0007-vl] (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr.	**Course name**		
03-46-0007-vl	Einführung in die Biomechanik		
Instructor		**Type**	**SWS**
Prof. Dr. phil. André Seyfarth		Lecture	2

Module name Einführung in die Pädagogik					
Module nr. 03-01-9046	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Petra Grell		

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**

Courses

Course nr. 03-01-4111-vl	**Course name** Einführung in die Pädagogik		
Instructor Prof. Dr. phil. Peter Euler		**Type** Lecture	**SWS** 2

Module name Einführung in die Sozial- und Ideengeschichte der Erziehung und Bildung					
Module nr. 03-01-9049	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • [03-01-4010-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**

Courses

Course nr.	**Course name**		
03-01-4010-vl	Einführung in die Sozial- und Ideengeschichte der Erziehung und Bildung		
Instructor		**Type** Lecture	**SWS** 2

Module name Developmental Psychology					
Module nr. 03-03-0045	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Stephanie Pieschl		

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: • Module exam (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-03-0005-vl	**Course name** Entwicklungspsychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Movement Science					
Module nr. 03-04-1036	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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**

Courses

Course nr. 03-46-0004-vl	**Course name** Attendance of lectures Basics of Movement Science	
Instructor	**Type** Lecture	**SWS** 2

Module name Advanced cognitive psychology					
Module nr. 03-03-0049	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • Module exam (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-03-0023-vl	**Course name** Grundlagenvertiefung Kognitive Psychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Kultur- und Kunstgeschichte					
Module nr. 03-01-9045	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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**

Courses

Course nr. 03-01-2011-vl	**Course name** Einführung in die Kultur- und Kunstgeschichte		
Instructor		**Type** Lecture	**SWS** 2

Module name Educational Psychology and Instructional Psychology					
Module nr. 03-03-0046	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Stephanie Pieschl		

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: • Module exam (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-03-0009-vl	**Course name** Pädagogische Psychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Soziale Ungleichheit in Bildungsinstitutionen					
Module nr. 03-01-9051	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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**

Courses

Course nr.	**Course name**		
03-01-4008-se	Herkunft macht Bildung: Ungleichheitstheoretische Perspektiven auf Bildungsinstitutionen		
Instructor Prof. Ph.D. Nina Grünberger		**Type** Seminar	**SWS** 2

Module name Social Psychology					
Module nr. 03-03-0043	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Nina Keith		

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: • Module exam (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr.	**Course name**		
03-03-0003-vl	Sozialpsychologie		
Instructor		**Type** Lecture	**SWS** 2

Module name Sports Medicine Anatomy						
Module nr. 03-04-1026	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester	
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: • [03-47-0006-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**					
Courses						
	Course nr. 03-47-0006-vl	**Course name** Attendance of lectures Sport Medicine 1				
	Instructor			**Type** Lecture	**SWS** 2	

Module name Sports Medicine Physiology						
Module nr. 03-04-2026	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester	
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: • [03-47-0003-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**					
Courses						
	Course nr. 03-47-0003-vl	**Course name** Attendance of lectures Sport Medicine 1				
	Instructor			**Type** Lecture	**SWS** 2	

Module name Sport Pedagogy					
Module nr. 03-04-2066	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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** Course related exam: • [03-44-0001-vl] (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-44-0001-vl	**Course name** Attendance of lectures Introduction to Sport Pedagogics	
Instructor	**Type** Lecture	**SWS** 2

Module name Sport Psychology					
Module nr. 03-04-1107	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. rer. nat. Frank Hänsel		

1	**Teaching content**
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**

Courses

Course nr. 03-45-0001-vl	**Course name** Attendance of lectures Sport Psychology	
Instructor	**Type** Lecture	**SWS** 2

Module name Sport Sociology					
Module nr. 03-04-1086	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Felix Kühnle		

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**

Courses

Course nr.	**Course name**		
03-43-0004-vl	Attendance of lectures Sport Sociology		
Instructor		**Type** Lecture	**SWS** 2

Module name Teaching engineering subjects					
Module nr. 03-01-91x0	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Ralf Tenberg		

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**

Courses

Course nr. 03-01-5000-vl	**Course name** Grundlagen der Technikdidaktik I		
Instructor Prof. Dr. phil. Ralf Tenberg		**Type** Lecture	**SWS** 2

Module name Technikdidaktik II					
Module nr. 03-01-9048	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Prof. Dr. phil. Ralf Tenberg		

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**

Courses

Course nr.	**Course name**		
03-01-5002-vl	Grundlagen der Technikdidaktik II		
Instructor		**Type**	**SWS**
Prof. Dr. phil. Ralf Tenberg		Lecture	2

Module name Training Science					
Module nr. 03-04-2036	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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: • [03-42-0003-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: • [03-42-0003-vl] (Study achievement, Examination, Weighting: 100 %)
7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr. 03-42-0003-vl	**Course name** Attendance of lectures Basics of Training Theory	
Instructor	**Type** Lecture	**SWS** 2

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

except for the iST study programs

3.1 EI - Lectures (basic modules)

Module name Financial Accounting and Reporting						
Module nr. 01-14-1B01	**Credit points** 5 CP	**Workload** 150 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every Semester	
Language German			**Module owner** Prof. Dr. rer. pol. Reiner Quick			
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. Financial Reporting: Fundamentals of accounting based on the rules of the German Commercial Code (HGB), accounting concepts, purpose of accounting, bookkeeping, inventory, recognition and measurement of assets and liabilities, income statement, notes, management report.					
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** Quick, R./ Wurl, H.-J: Doppelte Buchführung, 2. Aufl., Wiesbaden: Gabler. Quick, R./Wolz, M.: Bilanzierung in Fällen. 4. Auflage. Schäffer Poeschel, Stuttgart Further literature will be announced in the lecture.			
Courses				
	Course nr. 01-14-0001-vu	**Course name** Bookkeeping		
	Instructor Prof. Dr. rer. pol. Reiner Quick		**Type** Lecture and practice	**SWS** 2
	Course nr. 01-14-0003-vu	**Course name** Financial Accounting		
	Instructor Prof. Dr. rer. pol. Reiner Quick		**Type** Lecture and practice	**SWS** 2
	Course nr. 01-14-0001-tt	**Course name** Bookkeeping		
	Instructor Prof. Dr. rer. pol. Reiner Quick		**Type** Tutorial	**SWS** 1
	Course nr. 01-14-0003-tt	**Course name** Financial Accounting		
	Instructor Prof. Dr. rer. pol. Reiner Quick		**Type** Tutorial	**SWS** 1

Module name German and International Corporate Law					
Module nr. 01-42-1B01/4	**Credit points** 4 CP	**Workload** 120 h	**Self-study** 75 h	**Module duration** 1 Term	**Module cycle** Every Semester
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

Wendt, J., Wendt, D. (2019): Finanzmarktrecht, 1. Aufl. De Gruyter Verlag.
Buck-Heeb, P. (2017): Kapitalmarktrecht, 9. Aufl. C.F. Müller Verlag
Poelzig, D. (2017): Kaptalmarktrecht, 1. Aufl. C.H. Beck Verlag
Brox/Henssler, Handelsrecht
Kindler, Grundkurs Handels- und Gesellschaftsrecht

Further literature will be announced in the lecture.

Courses

Course nr.	**Course name**		
01-42-0001-vl	German and International Corporate Law		
Instructor		**Type**	**SWS**
Prof. Dr. jur. Janine Wendt		Lecture	2
Course nr.	**Course name**		
01-42-0001-ue	German and International Corporate Law		
Instructor		**Type**	**SWS**
Prof. Dr. jur. Janine Wendt		Practice	1

Module name Basic Principles of Patent and Copyright Law					
Module nr. 01-41-1127	**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. 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 learing 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

Course nr.	**Course name**		
01-41-0002-vl	Introduction to Patent and Copyright Law		
Instructor		**Type**	**SWS**
Prof. Dr. jur. Jochen Marly		Lecture	2

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**

Burghardt, M. (2008): Projektmanagement. Leitfaden für die Planung, Überwachung und Steuerung von Projekten (8., überarb. und erw. Aufl.). Erlangen: Publicis Corp. Publ.
Kerzner, H. (2006): Project Management - A Systems Approach to Planning, Scheduling, and Controlling (9. Aufl.). Hoboken, NJ: Wiley.
Madaus, B. (2000): Handbuch Projektmanagement (6., überarb. und erw. Aufl.). Stuttgart: Schäffer-Poeschel.
Schwarze (2001) Projektmanagement mit Netzplantechnik, Herne, 8. Auflg.

Further literature will be announced in the lecture.

Courses

Course nr.	**Course name**		
01-19-5100-vu	Introduction to Project Management		
Instructor		**Type**	**SWS**
Prof. Dr. rer. pol. Andreas Pfnür		Lecture and practice	2

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

	Course nr. 01-40-0000-vl	**Course name** Introduction to Law	
	Instructor Prof. Dr. jur. Janine Wendt	**Type** Lecture	**SWS** 2

Module name Introduction to Business Administration					
Module nr. 01-10-1028/f	**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. Dirk Schiereck		

1	**Teaching content** This course serves as an introduction into studies of business administration for students of other siences. 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 couse encourages students who have not been confronted with business studies before to think economicially. 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** Thommen, J.-P. & Achleitner, A.-K. (2006): Allgemeine Betriebswirtschaftslehre, 5. Aufl., Wiesbaden. Domschke, W. & Scholl, A. (2008): Grundlagen der Betriebswirtschaftslehre, 3. Aufl., Heidelberg. Further literature will be announced in the lecture.
Courses	

	Course nr. 01-10-0000-vl	**Course name** Introduction to Business Administration		
	Instructor		**Type** Lecture	**SWS** 2

Module name Introduction to Economics (V)					
Module nr. 01-60-1042/f	**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. Michael Neugart		

1 Teaching content

- Economic modeling
- Supply and demand
- Elasticities
- Consumer and producer rent
- Opportunity costs
- Marginal analysis
- Cost theory
- Utility maximization
- Macroeconomic aggregates
- Long-run growth
- Aggregate supply and aggregate demand

2 Learning objectives
Students are introduced to the principles of economics and their application to selected fields of interest.

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
none

8 Grade bonus compliant to §25 (2)

9 References
to be announced in course.

Courses

Course nr. 01-60-0000-vl	**Course name** Introduction to Economics		
Instructor		**Type** Lecture	**SWS** 2

Module name HIGHEST lecture series - From the concept to your own company					
Module nr. 01-27-0Z01	**Credit points** 2 CP	**Workload** 60 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every Semester
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 %)			
7	**Usability of the module** General Catalogue of the Department of Law and Economics			
8	**Grade bonus compliant to §25 (2)**			
9	**References** Will be announced in the course.			
Courses				
	Course nr. 01-27-0Z01-vl	**Course name** HIGHEST lecture series - From the concept to your own company		
	Instructor Prof. Dr. rer. pol. Carolin Bock		**Type** Lecture	**SWS** 0

Module name Introduction to Entrepreneurship					
Module nr. 01-27-1B01	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 45 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language English			**Module owner** Prof. Dr. rer. pol. Carolin Bock		

1	**Teaching content** The course "Grundlagen des Entrepreneurship" (Introduction to Entrepreneurship), being part of the module "Grundlagen 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, • 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, • understand basic concepts of entrepreneurial thinking towards idea- and business model creation, • realize business opportunities and build sustainable business models, • 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**

Grichnik, D., Brettel, M., Koropp, C., Mauer, R. (2010) Entrepreneurship. Stuttgart: Schäffer-Poeschel Verlag
Hisrich, R. D., Peters, M. P., & Shepherd, D. A. (2010). Entrepreneurship (8th ed.). New York: McGraw-Hill.
Read, S., Sarasvathy, S., Dew, N., Wiltbank, R. & Ohlsson, A.-V. (2010). Effectual Entrepreneurship. New York: Routledge Chapman & Hall.

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

Courses

Course nr.	**Course name**		
01-27-1B01-vl	Introduction to Entrepreneurship		
Instructor		**Type**	**SWS**
Prof. Dr. rer. pol. Carolin Bock		Lecture	3

Module name Introduction to Innovation Management					
Module nr. 01-22-2B01	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Every Semester
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** Hauschildt, J., Salomo, S., Schultz. C., Kock, A. (2016): Innovationsmanagement, 6. Aufl. Vahlen Verlag. Tidd/Bessant (2013): Managing Innovation: Integrating Technological, Market and Organizational Change. Further literature will be announced in the lecture.
Courses	

	Course nr. 01-22-2B01-vl	**Course name** Introduction to Innovation Management		
	Instructor Prof. Dr. Alexander Kock		**Type** Lecture	**SWS** 2

Module name Management of value-added networks					
Module nr. 01-12-0B02	**Credit points** 4 CP	**Workload** 120 h	**Self-study** 75 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. rer. pol. Ralf Elbert		

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
- apply basic knowledge for the management of value-creating networks in practical situations
- 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
- 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.

Courses

Course nr.	**Course name**		
01-12-0001-vu	Management of value-added networks		
Instructor Prof. Dr. rer. pol. Ralf Elbert		**Type** Lecture	**SWS** 3

Module name Human Resources Management					
Module nr. 01-17-1036	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 45 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner** Prof. Dr. Dr. Ruth Stock-Homburg		

1 Teaching content

- Basics of human resource management
- Selected approaches to the design of employee flow systems
- Selected approaches to the design of reward systems
- Embedding of personnel management in the company
- New challenges of personnel management (e.g. digital work, robots as team colleagues, boreout)

2 Learning objectives

After the courses the students are able to

- understand and explain the fundamentals of human resource management.
- classify and critically evaluate selected approaches to the design of employee flow systems.
- classify and critically evaluate selected approaches to the design of reward systems.
- understand and explain new challenges in human resource management.
- classify the concepts discussed with regard to their relevance in corporate practice.

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

Compulsory Reading:
Stock-Homburg, R. & Groß, M. (2019), Personalmanagement: Theorien - Konzepte - Instrumente, 4. Auflage, Wiesbaden. Kapitel: 1, 3-6, 8-9, 12-13, 15,18-19.

Further Reading:
Baruch, Y. (2004), Managing Careers: Theory and Practice, Harlow.
Gmür, M., Thommen, J.-P. (2007), Human Resource Management: Strategien und Instrumente für Führungskräfte und das Personalmanagement, 2. Auflage, Zürich.
Mondy, R. W. D., & Martocchio, J. J. (2015). Human Resource Management, Global Edition. Pearson Education Limited.
Junker, A. (2018). Grundkurs Arbeitsrecht (17., neu bearbeitete Auflage). Verlag C.H. Beck.

Further literature will be announced in the lecture.

Courses

Course nr.	**Course name**		
01-17-0003-vu	Human Ressources Management		
Instructor		**Type**	**SWS**
Prof. Dr. Dr. Ruth Stock-Homburg		Lecture and practice	3

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

Module name Digital Product and Service Marketing					
Module nr. 01-17-6200/6	**Credit points** 6 CP	**Workload** 180 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language English			**Module owner** Prof. Dr. Dr. Ruth Stock-Homburg		

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

	M.Sc. Wirtschaftsingenieurwesen, M.Sc. Wirtschaftsinformatik, M.Sc. Entrepreneurship and Innovation Management, M.Sc. Logistics and Supply Chain Management
8	**Grade bonus compliant to §25 (2)**
9	**References** Digital Product and Service Marketing: Chaffey, D., & Ellis-Chadwick, F. (2019). Digital marketing: strategy, implementation & practice. Pearson UK.. Chaffey, D., & Smith, P. R. (2017). Digital marketing excellence: planning, optimizing and integrating online marketing. Routledge. Digital Innovation Marketing: Stock-Homburg, R. M., Heald, S. L., Holthaus, C., Gillert, N. L., & von Hippel, E. (2021). Need-Solution Pair Recognition by Household Sector Individuals: Evidence, and a Cognitive Mechanism Explanation. Research Policy, 50(8), 104068. Source: Trott, P. (2012), Innovation Management and New Product Development. 5th edition, Harlow. Hauser, J., Tellis, G. J., Griffin, A. (2006), Research on Innovation: A Review and Agenda for Marketing Science, Marketing Science, 25(6), 687-717. von Hippel, E. (2005), Democratizing Innovation, Cambridge, Kapitel 9-11. Garcia, R., & Calantone, R. (2002). A Critical Look at Technological Innovation Typology and Innovativeness Terminology: A Literature Review. Journal of Product Innovation Management, 19(2), 110-132. Leifer et al. (2000), Radical Innovation: How Mature Companies can Outsmart Upstarts , Harvard Business School Press , Boston Further literature will be announced in the lecture.

Courses

Course nr. 01-17-0005-vu	**Course name** Digital Product and Service Marketing		
Instructor Prof. Dr. Dr. Ruth Stock-Homburg		**Type** Lecture and practice	**SWS** 2
Course nr. 01-17-0007-vu	**Course name** Digital Innovation Marketing		
Instructor Prof. Dr. Dr. Ruth Stock-Homburg		**Type** Lecture and practice	**SWS** 2

Module name Leadership and Human Resource Management Systems					
Module nr. 01-17-6201/6	**Credit points** 6 CP	**Workload** 180 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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** M.Sc. Wirtschaftsingenieurwesen, M.Sc. Wirtschaftsinformatik, M.Sc. Entrepreneurship and Innovation Management, M.Sc. Logistics and Supply Chain Management
8	**Grade bonus compliant to §25 (2)**
9	**References** Stock-Homburg, R. & Groß, M. (2019), Personalmanagement: Theorien - Konzepte - Instrumente, Wiesbaden, 4th Edition, Kap. IV. (translated from German) Stock, R. M., & Hoyer, W. D. (2002). Leadership style as driver of salespeoples' customer orientation. Journal of market-focused management, 5, 355-376. Stock, R., Zacharias, N. A., & Schnellbaecher, A. (2017). How do strategy and leadership styles jointly affect co-development and its innovation outcomes?. Journal of Product Innovation Management, 34(2), 201-222. Stock-Homburg, R. (2020a), Chapter 1: The Dodo Effect and Our Future Fitness, in: Stock-Homburg, R., Two Steps Ahead, TU Darmstadt. (working paper) Stock-Homburg, R. (2020b), Chapter 2: Future Orientation, in: Stock-Homburg, R., Two Steps Ahead, TU Darmstadt. (working paper) Stock-Homburg, R. & Lukoschek, C. (2019), Measuring and Designing Future Fitness with the Future Work Navigator (Zukunftsfähigkeit messen und gestalten mit dem Future Work Navigator), p. 191-207, in: Groß, M., Müller-Wiegand, M., & Pinnow, D. F. (Hrsg.), Zukunftsfähige Unternehmensführung: Ideen, Konzepte und Praxisbeispiele, Berlin: Springer Gabler. (translated from German) Further literature will be announced in the lecture.

Courses

Course nr. 01-17-0004-vu	**Course name** Leadership		
Instructor Dr. rer. pol. Gisela Gerlach		**Type** Lecture and practice	**SWS** 2
Course nr. 01-17-0008-vu	**Course name** Future of Work		
Instructor Prof. Dr. Dr. Ruth Stock-Homburg		**Type** Lecture and practice	**SWS** 2

Module name Master Seminar					
Module nr. 01-01-0M05	**Credit points** 6 CP	**Workload** 180 h	**Self-study** 150 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**Module owner**		

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 indiviudal 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 discusson)

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

M.Sc. Wirtschaftsingenieurwesen, M.Sc. Wirtschaftsinformatik, M.Sc. Entrepreneurship and Innovation Management, M.Sc. Logistics and Supply Chain Management

8 Grade bonus compliant to §25 (2)

9 References

Bänsch, A.: Wissenschaftliches Arbeiten: Seminar- und Diplomarbeiten
Theissen, M.R.: Wissenschaftliches Arbeiten: Technik, Methodik, Form
Thomson, W.: A Guide for the Young Economist - Writing and Speaking Effectively about Economics

Courses

Course nr.	**Course name**		
01-01-0M01-se	Master Seminar		
Instructor		**Type** Seminar	**SWS** 2

Module name Sustainable Management					
Module nr. 01-42-0M02/6	**Credit points** 6 CP	**Workload** 180 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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

Sustainability Management: Sustainability and Corporate Social Responsibility: Approaches, Opportunities and Challenges for Companies - Sustainability-oriented Management Systems: Quality, Environmental and Energy Management Systems as well as Social Standards and Social Responsibility - Integrated Management Systems - Sustainability Reporting - Sustainability Supply Chain Management - Relations to Corporate Governance and Compliance Management - Implementation of Sustainability Management in Companies: Guest lectures from corporate practice

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** M.Sc. Wirtschaftsingenieurwesen, M.Sc. Wirtschaftsinformatik, M.Sc. Entrepreneurship and Innovation Management, M.Sc. Logistics and Supply Chain Management
8	**Grade bonus compliant to §25 (2)**
9	**References** Mittwoch, Nachhaltigkeit und Unternehmensrecht (2022) Baumast, A.; Pape, J. (Hrsg.): Betriebliches Nachhaltigkeitsmanagement, 2. Aufl., Stuttgart 2022 Further literature will be announced in the lecture.

Courses

	Course nr. 01-14-0010-vu	**Course name** Sustainability Management		
	Instructor		**Type** Lecture and practice	**SWS** 2
	Course nr. 01-42-0006-vu	**Course name** Sustainability and Corporate Law		
	Instructor Prof. Dr. jur. Janine Wendt		**Type** Lecture and practice	**SWS** 2

Module name Project Management					
Module nr. 01-19-1350/6	**Credit points** 6 CP	**Workload** 180 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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

M.Sc. Wirtschaftsingenieurwesen, M.Sc. Wirtschaftsinformatik, M.Sc. Entrepreneurship and Innovation Management, M.Sc. Logistics and Supply Chain Management

8 Grade bonus compliant to §25 (2)

9	**References** literature will be announced in the lecture.			
Courses				
	Course nr. 01-19-0001-vu	**Course name** Project Management I		
	Instructor		**Type** Lecture and practice	**SWS** 2
	Course nr. 01-19-0003-vu	**Course name** Project Management II		
	Instructor Prof. Dr. Alexander Kock		**Type** Lecture and practice	**SWS** 2

Module name Technology and Innovation Management					
Module nr. 01-22-0M05/6	**Credit points** 6 CP	**Workload** 180 h	**Self-study** 120 h	**Module duration** 1 Term	**Module cycle** Every Semester
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** M.Sc. Wirtschaftsingenieurwesen, M.Sc. Wirtschaftsinformatik, M.Sc. Entrepreneurship and Innovation Management, M.Sc. Logistics and Supply Chain Management
8	**Grade bonus compliant to §25 (2)**
9	**References** Hauschildt, J., Salomo, S., Schultz. C., Kock, A. (2016): Innovationsmanagement, 6. Aufl. Vahlen Verlag, Tidd/Bessant (2013): Managing Innovation: Integrating Technological, Market and Organizational Change. Further literature will be announced in the lecture.
Courses	

	Course nr. 01-10-1M01-vu	**Course name** Technology and Innovation Management		
	Instructor Prof. Dr. Alexander Kock		**Type** Lecture and practice	**SWS** 4

4 Engineering and natural sciences

Modules of dep. 4, 5, 7, 10, 11, 13 and 20 (Complete catalogs), except for the iST study programs

5 Languages, soft skills

5.1 Languages

All modules of the Language Resource Center

5.2 Soft Skills

Module name Application in Teaching (Tutor Activities)					
Module nr. 18-de-1999	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 0 h	**Module duration** 1 Term	**Module cycle** Every Semester
Language German			**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-ha-8999-tt] (Study achievement, Special form, p/np RS) • [18-kp-8999-tt] (Study achievement, Special form, p/np RS) • [18-zh-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-dg-8999-tt] (Study achievement, Special form, p/np RS) • [18-zo-8999-tt] (Study achievement, Special form, p/np RS) • [18-mu-8999-tt] (Study achievement, Special form, p/np RS) • [18-kb-8999-tt] (Study achievement, Special form, p/np RS) • [18-ad-8999-tt] (Study achievement, Special form, p/np RS) • [18-hb-8999-tt] (Study achievement, Special form, p/np RS) • [18-kn-8999-tt] (Study achievement, Special form, p/np RS) • [18-pr-8999-tt] (Study achievement, Special form, p/np RS) • [18-gt-8999-tt] (Study achievement, Special form, p/np RS) • [18-kc-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-bi-8999-tt] (Study achievement, Special form, p/np RS) • [18-sm-8999-tt] (Study achievement, Special form, p/np RS) • [18-pe-8999-tt] (Study achievement, Special form, p/np RS) • [18-su-8999-tt] (Study achievement, Special form, p/np RS) • [18-hs-8999-tt] (Study achievement, Special form, p/np RS) • [18-bu-8999-tt] (Study achievement, Special form, p/np RS) • [18-sc-8999-tt] (Study achievement, Special form, p/np RS) • [18-st-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-fi-8999-tt] (Study achievement, Special form, p/np RS) • [18-kh-8999-tt] (Study achievement, Special form, p/np RS) • [18-bf-8999-tt] (Study achievement, Special form, p/np RS) • [18-me-8999-tt] (Study achievement, Special form, p/np RS)
5	**Prerequisite for the award of credit points** Passing the final module examination
6	**Grading**

Course related exam:

- [18-ha-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kp-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-zh-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-jk-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-ja-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-dg-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-zo-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-mu-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kb-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-ad-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-hb-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kn-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-pr-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-gt-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kc-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-bi-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-sm-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-pe-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-su-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-hs-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-bu-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-sc-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-st-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 %)
- [18-fi-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-kh-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-bf-8999-tt] (Study achievement, Special form, Weighting: 100 %)
- [18-me-8999-tt] (Study achievement, Special form, Weighting: 100 %)

7	**Usability of the module**
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr.	**Course name**		
18-ad-8999-tt	Einsatz in der Lehre (Tutor_innentätigkeiten)		
Instructor		**Type**	**SWS**
Prof. Dr.-Ing. Jürgen Adamy		Tutorial	2
Course nr.	**Course name**		
18-bf-8999-tt	Einsatz in der Lehre (Tutor_innentätigkeiten)		
Instructor		**Type**	**SWS**
Prof. Dr. Oliver Boine-Frankenheim		Tutorial	2

	Course nr. 18-bi-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. techn. Dr.h.c. Andreas Binder		**Type** Tutorial	**SWS** 2
	Course nr. 18-bu-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Ph.D. Thomas Burg		**Type** Tutorial	**SWS** 2
	Course nr. 18-de-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor PD Dr.-Ing. Stefan Göbel		**Type** Tutorial	**SWS** 2
	Course nr. 18-dg-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Herbert De Gersem		**Type** Tutorial	**SWS** 2
	Course nr. 18-fi-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Rolf Findeisen		**Type** Tutorial	**SWS** 2
	Course nr. 18-gr-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Christian Graeff		**Type** Tutorial	**SWS** 2
	Course nr. 18-gt-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Gerd Griepentrog		**Type** Tutorial	**SWS** 2
	Course nr. 18-ha-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Christoph Hoog Antink		**Type** Tutorial	**SWS** 2
	Course nr. 18-hb-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Christian Hochberger		**Type** Tutorial	**SWS** 2
	Course nr. 18-ho-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Klaus Hofmann		**Type** Tutorial	**SWS** 2
	Course nr. 18-hs-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Jutta Hanson		**Type** Tutorial	**SWS** 2

	Course nr. 18-ja-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Vahid Kooshkghazi		**Type** Tutorial	**SWS** 2
	Course nr. 18-jk-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Rolf Jakoby		**Type** Tutorial	**SWS** 2
	Course nr. 18-kb-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Harald Klingbeil, M.Sc. Sebastian Orth, M.Sc. Christoph Wegmann, M.Sc. Yi Jin		**Type** Tutorial	**SWS** 2
	Course nr. 18-kc-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. Myriam Koch		**Type** Tutorial	**SWS** 2
	Course nr. 18-kh-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Tran Quoc Khanh		**Type** Tutorial	**SWS** 2
	Course nr. 18-kl-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Anja Klein		**Type** Tutorial	**SWS** 2
	Course nr. 18-kn-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. Mario Kupnik		**Type** Tutorial	**SWS** 2
	Course nr. 18-kp-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. techn. Heinz Köppl		**Type** Tutorial	**SWS** 2
	Course nr. 18-me-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. rer. nat. Markus Meinert		**Type** Tutorial	**SWS** 2
	Course nr. 18-mu-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Michael Muma		**Type** Tutorial	**SWS** 2
	Course nr. 18-pe-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Marius Pesavento		**Type** Tutorial	**SWS** 2

	Course nr. 18-pr-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. rer. nat. Sascha Preu		**Type** Tutorial	**SWS** 2
	Course nr. 18-sc-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. rer. nat. Sebastian Schöps		**Type** Tutorial	**SWS** 2
	Course nr. 18-sm-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. rer. nat. Björn Scheuermann, Prof. Dr.-Ing. Ralf Steinmetz		**Type** Tutorial	**SWS** 2
	Course nr. 18-st-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. rer. nat. Florian Steinke		**Type** Tutorial	**SWS** 2
	Course nr. 18-su-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr. rer. nat. Andreas Schürr		**Type** Tutorial	**SWS** 2
	Course nr. 18-zh-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Li Zhang		**Type** Tutorial	**SWS** 2
	Course nr. 18-zo-8999-tt	**Course name** Einsatz in der Lehre (Tutor_innentätigkeiten)		
	Instructor Prof. Dr.-Ing. Abdelhak Zoubir		**Type** Tutorial	**SWS** 2

6 Insight into professional life

Module name Excursion SAE					
Module nr. 18-kn-1060	**Credit points** 1 CP	**Workload** 30 h	**Self-study** 30 h	**Module duration** 1 Term	**Module cycle** Summer term
Language German			**Module owner** Prof. Dr. Mario Kupnik		

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.Ed. etit, B.Sc. WI-etit
8	**Grade bonus compliant to §25 (2)**
9	**References**

Courses

Course nr.	**Course name**		
18-kn-1060-ek	Excursion SAE		
Instructor		**Type**	**SWS**
Prof. Dr.-Ing. Klaus Hofmann, Prof. Dr.-Ing. Tran Quoc Khanh, Prof. Dr. Mario Kupnik, Prof. Ph.D. Thomas Burg		Field trip	0

Module name Work and Process Organization					
Module nr. 16-21-5030	**Credit points** 4 CP	**Workload** 120 h	**Self-study** 75 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
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. 4. Describe the different forms of organizational structures and workflows, to present their advantages and disadvantages and to select them for a given task. 5. Distinguish and discuss working time models and flexibilization approaches as well as their effects on work design. 6. Apply design recommendations for teamwork. 7. Distinguish and discuss role and dimensions of diversity, especially with regard to teamwork. 8. 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**

	Schlick, Bruder, Luczak: Arbeitswissenschaft, 3. voll überarbeitete und erweiterte Auflage, Springer Verlag, Berlin 2010 (Kapitel 4, 5, 6, 7).			
Courses				
	Course nr. 16-21-5030-vl	**Course name** Work and Process Organization		
	Instructor		**Type** Lecture	**SWS** 2
	Course nr. 16-21-5030-ue	**Course name** Work and Process Organization		
	Instructor		**Type** Practice	**SWS** 1

Module name Human Factors/Ergonomics					
Module nr. 16-21-5020	**Credit points** 8 CP	**Workload** 240 h	**Self-study** 150 h	**Module duration** 1 Term	**Module cycle** Every 2. Semester
Language German			**Module owner** Dr. Ing. Bettina Abendroth		

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), Schlick, C.M., Bruder, R., and Luczak, H. (2010). Arbeitswissenschaft (3rd edition). Berlin: Springer.
Courses	

	Course nr. 16-21-5020-vl	**Course name** Human Factors/Ergonomics		
	Instructor		**Type** Lecture	**SWS** 4
	Course nr. 16-21-5020-ue	**Course name** Human Factors/Ergonomics		
	Instructor		**Type** Practice	**SWS** 2

Module name Standardization, Testing and Approvals in the Electrotechnical Area					
Module nr. 18-gt-4010	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Summer term
Language German			**Module owner** Prof. Dr.-Ing. Gerd Griepentrog		

1 Teaching content

In the European Union (EU), the fundamental requirements for lectrical 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)
  - Worldwide by IEC (= International Electrotechnical Commission).
- 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 adn 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** • Barz, N., Moritz, D.: EG - Niederspannungsrichtlinie Berlin/Offenbach: vde-verlag, 2008, 230 S. (VDE-Schriftenreihe Band 69) • Link für EG-Richtlinien:eur-lex.europa.eu/de/index.htm • Moritz, D.: Das Geräte- und Produktsicherheitsgesetz (GPSG) Berlin/Offenbach: vde-verlag, 2004, 138 S. (VDE-Schriftenreihe Band 116)			
Courses				
	Course nr. 18-gt-4010-vl	**Course name** Standardization, Testing and Approvals in the Electrotechnical Area		
	Instructor Dr.-Ing. Stefan Heusinger		**Type** Lecture	**SWS** 2

Module name Patents - How to Protect Technical Inventions					
Module nr. 18-fi-3010	**Credit points** 3 CP	**Workload** 90 h	**Self-study** 60 h	**Module duration** 1 Term	**Module cycle** Summer term
Language German			**Module owner** Prof. Dr.-Ing. Rolf Findeisen		

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**

- German Patent Law „Patentgesetz (PatG)“ -www.gesetze-im-internet.de/patg/index.html
- German Utility Model Act „Gebrauchsmustergesetz (GbmG)“ -www.gesetze-im-internet.de/gebrmg/index.html
- German Law on Employee Invention „Arbeitnehmererfindergesetz (ArbEG)“ -www.gesetze-im-internet.de/arbnerfg/index.html
- European Patent Convention „Europäisches Patent Übereinkommen (EPÜ)“ -www.epo.org/law-practice/legal-texts/epc_de.html
- Patent Cooperation Treaty (PCT) -www.wipo.int/pct/en/texts/index.html
- Paris Convention for the Protection of Industrial Property „Pariser Verbandsübereinkunft (PVÜ)“ -www.wipo.int/treaties/en/ip/paris/

Students will find a compilation of the relevant legal texts in the following book:
Patent- und Musterrecht; Beck im dtv - ISBN 978-3-406-66154-9

Courses

Course nr.	**Course name**		
18-fi-3010-vl	Patents - How to protect technical inventions		
Instructor		**Type**	**SWS**
Prof. Dr.-Ing. Rolf Findeisen, Dr. Ing. Sebastian Clever		Lecture	2