fördern • führen • inspirieren



Course Catalogue

Digital Technology and Management



Bachelor of Science (B.Sc.)

Digital Technology and Management – Bachelor

Winter Term 2024/2025

Table of contents

Ρ	RELIMINARY NOTES	4
С	Course of study – winter semester start (according to new study and examination regulations) Course of study – summer semester start (according to new study and examination regulations) Course of study – winter semester start (according to old study and examination regulations) Course of study – summer semester start (according to old study and examination regulations)	5 7 8 5 6
Μ	IODULE DESCRIPTIONS	9
Μ	IANDATORY MODULES	9
1	Fundamentals of Mathematics, Informatics and Scientific Methods Mathematics Algorithms and Data Structures Object-oriented Coding Statistics and Quantitative Methods Information Systems and Databases Research and Evaluation Methods	9 10 11 12 13 14
2	Digital Technology IoT Technology Product Management Sensors for Smart Systems Communication Technology Production Technology Innovation and Technology Lifecycle Management	15 16 18 19 20 21
3	Management Fundamentals of Business Administration Principles of Accounting and Finance Business Processes Management Marketing and Sales Business Simulation	22 23 24 25 27
4	Integrative Modules Project Management and Agile Methods Logistics 1 Industrial Engineering Ethics in Business and Technology Entrepreneurial Project 1: Developing a Digital Solution Entrepreneurial Project 2: Business Plan for a Digital Product Research Project	28 29 30 31 33 34 35
5	Language and Soft Skills English for Academic Purposes Technical English Intercultural Communication	36 36 37 38
В	ASIC ELECTIVES Ukrainian-German Teaching Week Summer School on Lowering Barriers for Minority Groups in Retail International Winter Week on Service Design	39 40 41 42

KREA Spring School	43
International Summer School on Sustainability	44
International Retail Innovation Challenge	45
Social Entrepreneurship Project	46
International Short Stay	47
Digital Business and Information Systems: A Managerial Approach	48
Future Skill	49
MINT Skill	50
Green Office	51
Foreign Language I	52
Foreign Language II	53

SPECIALIZATION ELECTIVES	54
Data Science for Engineers (Introduction to Methods and Tools)	55
Applied Image Processing	56
Industrial Applications of Data Science	57
The R and RStudio Environment	58
ERP Systems and Digital Transformation	59
Industry X.0 and Supply Chain Management	60
Robotik	61
SAP-Anwendungsentwicklung für Logistik 4.0	62
Smart Factory	64
Gesundheitsökonomie und Krankenhausmanagement I	65
Gesundheitsökonomie und Krankenhausmanagement II	66
Gesundheitssysteme im internationalen Vergleich	67
E-Health und M-Health	68
Blockchain Applications for Business	70
Business Model Innovation	71
Digital Marketing and eCommerce	73
International Marketing	74
People Analytics: Data Science for Human Resources Management	75
Profiting from Ideas and Inventions: An Introduction to Intellectual Property Rights	76
Practical Project	77
PRACTICAL PHASE	78
Internship	78

BACHELOR THESIS

Bachelo	or Th	esis

Preliminary Notes

• Note:

Please take special note of the Program and Examination Regulations of this degree program in their current version.

• Study structure:

The program comprises a standard duration of 7 semesters.

• Registration formalities:

All examinations must be registered with the Students' Office through PRIMUSS. Additional formalities are listed in the module descriptions.

• Abbreviations:

ECTS = The European Credit Transfer and Accumulation System (ECTS) is a credit point system for accreditation of course achievements.

SWS = Semesterwochenstunden = Semester hours per week

SPO = Studien- und Prüfungsordnung = Program and Examination Regulations

APO = Allgemeine Prüfungsordnung = General Examination Regulations

• Workload:

... .. .

According to the Bologna Process, a credit point is based on a workload of 25-30 hours. The number of hours includes contact and attendance time at the university, time spent preparing for and following up on courses, time spent writing papers and time spent preparing for examinations.

Example calculation of workload for a course with 4 SWS, 5 ECTS-points:

Worklo	ad:	5 ECTS x 30 h/ECTS = 15								
-	Lecture (4 SWS x 1 Self-study	5 weeks)	= 60 h = 60 h							
-	Exam preparation		= 30 h = 150 h							

• Accreditation of course achievements:

Please observe all relevant application procedures via the Students' Office.

• vhb:

vhb (German: virtuelle Hochschule Bayern / English: virtual university Bavaria) is an online learning platform with online courses from different universities in Bavaria. Further information can be found here: https://www.vhb.org/en/

Curriculum

Course of study – winter semester start (according to new* study and examination regulations)

* Please note that there have been changes to the study and examination regulations (German: Studien- und Prüfungsordnung, SPO) for the winter semester 2024/25.

These are ONLY relevant for students starting their studies in winter 2024/25. However, **all other students are strongly recommended to switch to the new SPO.** Please follow the steps communicated to you by email and via the notice board. In case of doubt, please urgently contact the programme director Prof. Dr. Julia Heigl, <u>j.heigl@oth-aw.de</u>.

	DTM - Study Plan - Winter Semester Start	Winter		Sum	imer	Wir	nter	Sum	imer	Winter		Summer		Winter				
	,	1st Semester 2		2nd Se	mester	3rd Se	mester	4th Se	mester	5th Se	mester	6th Sei	mester	7th Se	mester		Total	
		contac		contac		contac		contac		contac		contac		contac		contac		
		t time		t time		ttime		t time		ttime		t time		t time		t time		
		(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	%
No.	Module groups / modules		Study Se	ection 1			Study S	ection 2				Study Section 3		on 3				
1	Fundamentals of Mathematics, Informatics and Scientific Methods	4	5	4	5	4	5	8	10	4	5	0	0	0	0	24	30	14%
1.1	Mathematics	4	5															
1.2	Algorithms and Data Structures			4	5													
1.3	Object-oriented Coding					4	5											
1.4	Statistics and Quantitative Methods							4	5									
1.5	Information Systems and Databases							4	5									
1.6	Research and Evaluation Methods									4	5							
2	Digital Technology	4	5	4	5	8	10	4	5	0	0	0	0	4	5	24	30	14%
2.1	IoTTechnology	4	5															
2.2	Product Management			4	5													
2.3	Sensors for Smart Systems					4	5											
2.4	Communication Technology		İ					4	5	I				İ				
2.5	Production Technology		İ			4	5			I				İ				
2.6	Innovation and Technology Lifecycle Management													4	5			
3	Management	8	10	4	5	4	5	0	0	0	0	4	5	0	0	20	25	12%
3.1	Fundamentals of Business Administration	4	5															
3.2	Principles of Accounting and Finance	4	5															
3.3	Business Processes Management			4	5													
3.4	Marketing and Sales					4	5											
3.5	Business Simulation											4	5					
4	Integrative Modules	0	0	0	0	4	5	8	10	0	0	8	10	8	10	28	35	17%
4.1	Project Management and Agile Methods					4	5							-				
4.2	Logistics 1							4	5									
4.3	Industrial Engineering							4	5									
4.4	Ethics in Business and Technology											4	5					
4.5	Entrepreneurial Project 1: Developing a Digital Solution													4	5			
4.6	Entrepreneurial Project 2: Business Plan for a Digital Solution													4	5			
4.7	Research Project											4	5					
5	Language and Soft Skills	8	10	12	15	4	5	4	5	0	0	0	0	0	0	28	35	17%
5.1	English for Academic Purposes	4	5															
5.2	Technical English			4	5													
5.3	Intercultural Communication			4	5													
5.4	Basic Elective 1	4	5		-													<u> </u>
5.5	Basic Elective 2		_	4	5													
5.6	Basic Elective 3				-	4	5											
5.7	Basic Elective 4						-	4	5									
6	Specialization Modules	0	0	0	0	0	0	0	0	0	0	12	15	4	5	16	20	10%
6.1	Specialization Elective 1			-			-	-				4	5		-			20/3
6.2	Specialization Elective 2											4	5					
6.3	Specialization Elective 3		l –									4	5	l –				
6.4	Specialization Elective 4		1										-	4	5			<u> </u>
7	Practical Phase										25				-	0	25	12%
7.1	Internship										25					Ŭ		12/0
8	Bachelor's Degree														10	0	10	5%
8.1	Bachelor Thesis														10	Ť		370
	Summe:	24	30	24	30	24	30	24	30	4	30	24	30	16	30	140	210	100%
	Junne.	24	- 30	24	30	24	- 30	24	30		30	24	30	10	- 30	140	210	100/0

Course of study – summer semester start (according to new* study and examination regulations)

* Please note that there have been changes to the study and examination regulations (German: Studien- und Prüfungsordnung, SPO) for the winter semester 2024/25.

These are ONLY relevant for students starting their studies in winter 2024/25. However, **all other students are strongly recommended to switch to the new SPO.** Please follow the steps communicated to you by email and via the notice board. In case of doubt, please urgently contact the programme director Prof. Dr. Julia Heigl, j.heigl@oth-aw.de.

	DTM - Study Plan - Summer Semester Start	Sum	mer	Wi	nter	Sum	nmer	Wi	nter	Sum	imer	Wir	nter	Sum	mer			
			nester	2nd Se			mester		mester	5th Se		6th Se			mester	Total		_
			nester		mester		nester		nester				nester		nester		TOLAI	1
		contact time		contact time		contact time		contact time		contact time		contact time		contact time		contact time		
		(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	%
No.	Module groups / modules	(3443)	Study S		Lets	(3443)		ection 2	Lets	(3003)	LCID	Study Section 3		(3003)	LCIS	(3443)	LUIS	70
1	Fundamentals of Mathematics, Informatics and Scientific Methods	4	5	4	5	8	10	4	5	4	5	0	0	0	0	24	30	14%
1.1	Mathematics	4	5	4	5	0	10	-	5	4	5	0	0	0	0	24	30	1470
1.2	Algorithms and Data Structures	4	5		,													
1.3	Object-oriented Coding		5					4	5									l
1.4	Statistics and Quantitative Methods					4	5		5									l
1.5	Information Systems and Databases					4	5											l
1.6	Research and Evaluation Methods						-			4	5							l
2	Digital Technology	4	5	4	5	4	5	8	10	0	0	4	5	0	0	24	30	14%
2.1	lioTTechnology	-	,	4	5		5	Ŭ	10	Ŭ	0		,		0		50	1470
2.2	Product Management	4	5	-	5													ł
2.3	Sensors for Smart Systems	-						4	5									1
2.4	Communication Technology					4	5											<u> </u>
2.5	Production Technology							4	5									1
2.6	Innovation and Technology Lifecycle Management											4	5					1
3	Management	4	5	8	10	0	0	4	5	0	0	4	0	4	5	20	25	12%
3.1	Fundamentals of Business Administration		,	4	5		0		,	Ū	0	Ū	Ū	-	,	20		12/0
3.2	Principles of Accounting and Finance			4	5													
3.3	Business Processes Management	4	5	4	5													
3.4	Marketing and Sales	-	,					4	5									
3.5	Business Simulation							-	,					4	5			-
1	Integrative Modules	0	0	0	0	8	10	4	5	0	0	12	15	4	5	28	35	17%
4.1	Project Management and Agile Methods	0	0	0	0	0	10	4	5	0	0	12	15	4	5	20	35	17 /0
4.1	Logistics 1					4	5	4	5									
4.2	Industrial Engineering					4	5											
4.4	Ethics in Business and Technology					-	,							4	5	-		
4.4	Entrepreneurial Project 1: Developing a Digital Solution											4	5	4	5		-	
4.5	Entrepreneurial Project 1: Developing a Digital Solution											4	5					
4.0	Research Project					-						4	5			-		
4. <i>1</i>	Language and Soft Skills	12	15	8	10	4	5	4	5	0	0	4	0	0	0	28	35	170/
5.1	English for Academic Purposes	12	15	ہ 4	5	4	5	4	5	0	0	0	0	0	0	20	35	17%
5.2	Technical English	4	5	-	5					<u> </u>								+
5.2	Intercultural Communication	4	5					<u> </u>						<u> </u>				
5.4	Basic Elective 1	4	5					<u> </u>						<u> </u>				
5.4	Basic Elective 1 Basic Elective 2	4	5	4	5			<u> </u>										
5.6	Basic Elective 2 Basic Elective 3			4	ر ا	4	5											
5.0	Basic Elective 3					4	5	4	5					<u> </u>				
s./	Specialization Modules	0	0	0	0	0	0	4	0	0	0	8	10	8	10	16	20	10%
6.1	Specialization Modules Specialization Elective 1	0	0	0	0	0	0	0	0	0	0	8	5	0	10	10	20	10%
6.2	Specialization Elective 2											4	5					<u> </u>
6.3	Specialization Elective 2 Specialization Elective 3							<u> </u>				4	5	4	5			
														4				<u> </u>
6.4	Specialization Elective 4										25			4	5	0		
7	Practical Phase										25					0	25	12%
7.1	Internship Bashalari Desses										25				10	•	10	50/
8	Bachelor's Degree														10	0	10	5%
8.1	Bachelor Thesis														10			
	Total	24	30	24	30	24	30	24	30	4	30	24	30	16	30	140	210	100%

Course of study – winter semester start (according to old* study and examination regulations)

* Please note that there have been changes to the study and examination regulations (German: Studien- und Prüfungsordnung, SPO) for the winter semester 2024/25.

These are ONLY relevant for students starting their studies in winter 2024/25. However, **all other students are strongly recommended to switch to the new SPO.** Please follow the steps communicated to you by email and via the notice board. In case of doubt, please urgently contact the programme director Prof. Dr. Julia Heigl, <u>j.heigl@oth-aw.de</u>.

	DTM - Study Plan - Winter Semester Start	Winter		Sum	mer	Wir	nter	Sum	Summer		Winter		mer	Winter				
			mester	2nd Se			mester	4th Semester			mester	6th Se				Tota		
		contac		contac		contac		contac		contac		contac		contac		contac		
		t time		ttime		t time		t time		t time		t time		t time		t time	1	1
		(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	%
No.	Module groups / modules	(0110)	Study Se			(0.1.0)	Study Se			(0110)		Study Section 3		(0110)		(0000)		
1	Fundamentals of Mathematics, Informatics and Scientific Methods	4	5	4	5	4	5	8	10	4	5	0	0	0	0	24	30	14%
1.1	Mathematics	4	5															
1.2	Algorithms and Data Structures			4	5													
1.3	Object-oriented Coding					4	5											
1.4	Statistics and Quantitative Methods							4	5									
1.5	Information Systems and Databases							4	5									
1.6	Research and Evaluation Methods									4	5							
2	Digital Technology	4	5	4	5	8	10	4	5	0	0	0	0	4	5	24	30	14%
2.1	IoT Technology	4	5															
2.2	Product Management			4	5													
2.3	Sensors for Smart Systems					4	5											
2.4	Communication Technology							4	5	I								(
2.5	Production Technology					4	5											
2.6	Innovation and Technology Lifecycle Management													4	5			
3	Management	8	10	4	5	4	5	0	0	0	0	4	5	0	0	20	25	12%
3.1	Fundamentals of Business Administration	4	5		-				-	-								
3.2	Principles of Accounting and Finance	4	5															<u> </u>
3.3	Business Processes Management		-	4	5													<u> </u>
3.4	Digital Marketing and eCommerce				-	4	5											
3.5	Business Simulation						-					4	5					<u> </u>
4	Integrative Modules	0	0	0	0	4	5	8	10	0	0	8	10	8	10	28	35	17%
4.1	Project Management and Agile Methods	-	-	-	-	4	5	-		-	-	-		-				1170
4.2	Logistics 1						-	4	5									<u> </u>
4.3	Industrial Engineering							4	5									<u> </u>
4.4	Ethics in Business and Technology								-			4	5					<u> </u>
4.5	Entrepreneurial Project 1: Developing a Digital Solution													4	5			<u> </u>
4.6	Entrepreneurial Project 2: Business Plan for a Digital Product													4	5			<u> </u>
4.7	Research Project											4	5		-			<u> </u>
5	Language and Soft Skills	8	10	12	15	4	5	4	5	0	0	0	0	0	0	28	35	17%
5.1	English for Academic Purposes	4	5															20,0
5.2	Technical English		-	4	5									İ				[
5.3	Intercultural Communication			4	5									İ				[
5.4	Basic Elective 1	4	5											l –				ļ
5.5	Basic Elective 2		-	4	5									l –				ļ
5.6	Basic Elective 2				-	4	5							İ				[
5.7	Basic Elective 4							4	5					İ				[
6	Specialization Modules	0	0	0	0	0	0	0	0	0	0	12	15	4	5	16	20	10%
6.1	Specialization Elective 1		_		•							4	5					10/0
6.2	Specialization Elective 2											4	5					<u> </u>
6.3	Specialization Elective 3											4	5					<u> </u>
6.4	Specialization Elective 4												-	4	5			<u> </u>
7	Practical Phase										25					0	25	12%
, 7.1	Internship										25							12/0
8	Bachelor's Degree		-				-					-			10	0	10	5%
8.1	Bachelor Thesis														10	, i	10	370
0.1		24	30	24	30	24	30	24	30	4	30	24	30	16	30	140	210	100%
	Summe:	24	30	24	30	24	30	24	30	4	30	24	30	10	30	140	210	100%

Course of study – summer semester start (according to old study and examination regulations)

* Please note that there have been changes to the study and examination regulations (German: Studien- und Prüfungsordnung, SPO) for the winter semester 2024/25.

These are ONLY relevant for students starting their studies in winter 2024/25. However, **all other students are strongly recommended to switch to the new SPO.** Please follow the steps communicated to you by email and via the notice board. In case of doubt, please urgently contact the programme director Prof. Dr. Julia Heigl, j.heigl@oth-aw.de.

	DTM - Study Plan - Summer Semester Start	Sum	mer	Wi	nter	Sum	nmer	Wi	nter	Sum	mer	Wir	nter	Sum	nmer			_
	bin study full summer semester start	1st Sei		2nd Se			mester		mester	5th Sei			mester		mester		Total	
		contact		contact		contact		contact		contact	,	contact		contact		contact		
		time		time		time		time		time		time		time		time		
		(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	(SWS)	ECTS	%
No.	Module groups / modules	(0110)	Study Se			(0110)		ection 2		(0110)		Study Section 3		(0110)		(0110)		
1	Fundamentals of Mathematics, Informatics and Scientific Methods	4	5	4	5	8	10	4	5	4	5	0	0	0	0	24	30	14%
-	Mathematics		-	4	5	-			-			-	-	-				1470
1.2	Algorithms and Data Structures	4	5		-													
1.3	Object-oriented Coding		-					4	5									
1.4	Statistics and Quantitative Methods					4	5	-	-									
1.5	Information Systems and Databases					4	5											
1.6	Research and Evaluation Methods						5			4	5							l
2	Digital Technology	4	5	4	5	4	5	8	10	0	0	4	5	0	0	24	30	14%
2.1	lioTTechnology		,	4	5		5	0	10	0			,	0	•		50	1470
2.2	Product Management	4	5	-	5													ł
2.2	Sensors for Smart Systems							4	5									1
2.3	Communication Technology					4	5	-	,									
2.5	Production Technology						۲, T	4	5									+
2.5	Innovation and Technology Lifecycle Management							-	,			4	5					<u> </u>
3	Management	4	5	8	10	0	0	4	5	0	0		0	4	5	20	25	12%
3.1	Fundamentals of Business Administration	-	5	4	5	0	0	-	5	0	0	0	0	4	5	20	2.5	12 /0
3.2	Principles of Accounting and Finance			4	5													
3.3	Business Processes Management	4	5	4	5													
3.4	Digital Marketing and eCommerce	4	5					4	5									
3.4	Business Simulation							4	5					4	5			
3.J A	Integrative Modules	0	0	0	0	8	10	4	5	0	0	12	15	4	5	28	35	17%
4.1	Project Management and Agile Methods	0	0	0	0	0	10	4	5	0	0	12	15	4	5	20	33	1/%
4.1	Logistics 1	-				4	5	4	5							-		
4.2						4	5				-						-	
4.5 4.4	Industrial Engineering					4	5				-			4	5		-	
4.4 4.5	Ethics in Business and Technology											4	5	4	5			
	Entrepreneurial Project 1: Developing a digital solution											4	5					-
4.6 4.7	Entrepreneurial Project 2: Business Plan for a Digital Product											4	5					
4.7	Research Project	42	45		40		-		-	-	0			-		20		
5	Language and Soft Skills	12	15	8	10 5	4	5	4	5	0	0	0	0	0	0	28	35	17%
5.1 5.2	English for Academic Purposes	4	5	4	5													
	Technical English	4								<u> </u>								
5.3	Intercultural Communication		5															
5.4	Basic Elective 1	4	5		-													──
5.5	Basic Elective 2			4	5	4	-											
5.6	Basic Elective 3					4	5	<u> </u>										<u> </u>
5.7 c	Basic Elective 4							4	5		0		40		10		20	
6	Specialization Modules	0	0	0	0	0	0	0	0	0	0	8	10	8	10	16	20	10%
6.1	Specialization Elective 1											4	5					<u> </u>
6.2	Specialization Elective 2							ļ				4	5					
6.3	Specialization Elective 3													4	5			
6.4	Specialization Elective 4				L		L	L	L					4	5			L
7	Practical Phase										25					0	25	12%
7.1	Internship										25							L
8	Bachelor's Degree														10	0	10	5%
8.1	Bachelor Thesis														10			L
	Total	24	30	24	30	24	30	24	30	4	30	24	30	16	30	140	210	100%

Module descriptions

Mandatory modules

Fundamentals of Mathematics, Informatics and Scientific Methods 1

Mathematics	5												
Classification	Module ID	K	(ind of Modul	•	Number of Credit	s (FCTS)							
Clussification	1.1		Mandatory		5	.5 (1010)							
			-										
Location	Language	Duration of Module	Freque	ncy of Module	Max. Number of Pa	articipants							
Weiden	English	One Semester	Winter Seme	ster	60								
	Module Convend	or	Professor / Lecturer										
Prof. Dr. Dr. Theresa	a Götz		Prof. Dr. Dr. Theresa Götz										
Prerequisites*													
None													
* Noto: Plassa sis	o note the prerea	wisites according to t	ho ovaminati	n regulations in t	he respective valid SPO ve	arcion							
Note: Flease als	Usability	disites according to th		ning Methods	Workload								
The module is part of		Fundamentals of		e of vhb: IEM -	Contact time:	- 60 h							
Mathematics, Inform	natics and Scientific	Methods of the Digital	Introduction	to Engineering	Self-study:	60 h							
Technology and Mar			Mathematics		Exam preparation	<u>= 30 h</u>							
The usability in othe		nust be checked in				= 150 h							
each individual case													
Learning Outcome Learning Outcomes	es												
 Professional Skills: Students know and understand important mathematical tools for industrial engineers and can use them to analyze and solve mathematical problems and tasks in the areas mentioned in "Course content" (at the level of relevant literature for universities of applied sciences). Methodological Skills: 													
Teaching Material Available via Moodle													
Internationality (
The course content		able.											
Method of Assess	ment (if applicabl	e, notes on multiple c	hoice as form	of examination -	APO §9a)								
Form of Examinat	tion ^{*1)}	e/Scope incl. Weight	ing ^{*2)}	Learning Obje	ctives/Competencies to be	e Assessed							
Kl (written exam)	90 minute	es		The exam covers the	ne above mentioned professio								
	additional	ints can be earned by su exercises. These can an of 20% of the total num the exam.	nount to a	methodological skil	15.								

Algorithms and Data Structures												
Classification	Module ID		Kind of Modu	le	Number of Credits (ECTS)							
	1.2		Mandatory		5							
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants							
Weiden En	glish	One Semester	Summer Semester 60									
Mo Prof. DrIng. Manfred Be	dule Convenc eham)r	Professor / Lecturer Prof. DrIng. Manfred Beham									
Prerequisites*												
None, this course is on beginner's level * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version.												
	Usability	j		hing Methods	Workload							
The module is part of the			Lecture with	exercises; instruction	Contact time: 60 h							
Mathematics, Informatics		5	· ·	actical work in	Self-study: 60 h							
Technology and Manager			programmin	g	Exam preparation: 30 h Total effort: 150 h							
The usability in other cou each individual case.	inses of study h	iust de checked in										
Learning Outcomes												
After successful comp personal skills and co		module, students will	have acquire	ed the following profe	essional, methodological and							
 They can make Students will le Methodological Skills: Students can u Students will d Personal Skills (Social Students are a problem-solvin Course Content Introduction: Algorithm Data structures: Elemes Sorting and Order Sta Graph Algorithms: Elemes Selected topics: Algorit Teaching Material / Resource 	e use of elemer earn the elemer escribe comple Competence Iso able to pres g strategy in a ms, Analysing al intary data strut tistics: Heapson mentary search thms for paralle eading Hes E. Leiserson	te a static class model of xity of algorithms by a s and Self-competence ent solutions that have b technical and methodica gorithms, Designing algo ctures, Hash tables, Bin- ort, Quicksort, Sorting in algorithms, Shortest pa d computers, Matrix ope	d predefined op basic algorithm of elementary d tandard asymp e): been created, t al manner. orithms, Recurs ary trees, OO N linear time oth search, Sele trations, String	ns in an object-oriented ata-structures. totic notation. to discuss their quality a sive procedures, Exempl dodelling toted game algorithms matching, RSA public-ke	n software applications. software development environment. Ind alternatives and to reflect on their ary implementation (using JAVA) ey cryptosystem, ress, Cambridge Massachusetts, London							
Internationality (cont	ent-related)											
The content is valid in an	v international	software development t	ream									
Method of Assessmen	,	•		of examination _ AD								
Piethou of Assessmen		e, notes on multiple c	choice as form		0 390)							
Form of Examination [*]	¹⁾ Typ	e/Scope incl. Weight	ting ^{*2)}	Learning Objecti	ves/Competencies to be Assessed							
Written Exam (Kl90)	Information	kam, 90 minutes about a possible bonus syste rting in the semester the mod time		With the exam and a mentioned competenc	possible bonus exercise, all of the above- ies are tested.							

Object-oriented Coding

Prof. Dr.-Ing. Manfred Beham

Classification	Module ID1.3	К	(ind of Module Mandatory	Number of Credits (ECTS) 5					
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants					
Weiden	English	One Semester	Winter Semester	60					
	Module Conveno	r	Professor / Lecturer						

Prof. Dr.-Ing. Manfred Beham

Prerequisites*		
None * Note: Please also note the prerequisites according to the second	a avamination regulations in th	a respective valid SPO version
	Teaching Methods	Workload
The module is part of the module group <i>Fundamentals of</i> <i>Mathematics, Informatics and Scientific Methods</i> of the Digital Technology and Management Bachelor's degree program. The usability in other courses of study must be checked in each individual case.	Lecture; instruction seminars; practical exercise	Contact time: 60 h Self-study: 60 h Exam preparation: 30 h Total effort: 150 h

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Professional Skills:

- Identify core aspects of object-oriented programming and features of an object-oriented language.
- Use a development environment for writing and running your code.
- Develop and implement programs that apply core object-oriented programming concepts like classes, polymorphism, and method overloading.
- Use built in data-structures (collections) and functions.
- Convert a given algorithm into a procedural program.

Methodological Skills:

- You are able to analyse and design an application using OO methods
- You can use step-by-step refinement to break down a problem into sub-problems (modularisation)

Personal Skills (Social Competence and Self-competence):

• You are also able to present solutions that have been created, to discuss their quality and alternatives and to reflect on their problem-solving strategy in a technical and methodical manner.

Course Content

This course provides an introduction to object-oriented programming, including an overview of the language syntax and how to develop simple applications. Students will learn how to write custom classes and methods, and how to test their code using unit testing and test-driven development. Topics include basic data structures like Arrays and Lists and concepts of inheritance or overloading methods.

Teaching Material / Reading

• Depends on the concrete used programming language (JAVA, Python, C++, C#); will be specified in Moodle

Internationality (content-related)

The content is valid in any international software development environment

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)				
Form of Examination ^{*1)}	Type/Scope incl. Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed		
Module Work (ModA)	Project Work: An application for a given task must be developed, documented and presented.	With this practical work, all of the above-mentioned competencies are tested.		
	Written: Code and documentation (70 %) Orally: Presentation (30 %)			

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Statistics and Quantitative Methods

Classification	Module ID		Kind of Modul	e	Number of Credits (ECTS)		
	1.4		Mandatory		5		
	•						
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants		
Weiden	English	One Semester	Summer Ser	nester	60		
	Module Conven	or		Profes	sor / Lecturer		
Prof. Dr. Dr. Theresa	a Götz		Prof. Dr. Dr.	Theresa Götz			
Prerequisites*			1				
None							
* Note: Please als		uisites according to t			e respective valid SPO version.		
The med 1 i i	Usability	Findenset 1 C		hing Methods	Workload		
The module is part of Mathematics Inform		<i>Fundamentals of</i> <i>Methods</i> of the Digital	exercise in c	exercise; practical	Contact time: 60 h Self-study: 60 h		
Technology and Mar			exercise in c		Exam preparation: 30 h		
The usability in othe					Total effort: 150 h		
each individual case.							
Learning Outcomes	25						
	ompletion of the	module, students will	have acquire	d the following pro	fessional, methodological and		
personal skills and							
	-						
		nd the possible application	ons of probabilit	ty calculation to proble	ems with random events and can apply		
	ese problems.	nd the most important co	ncents and me	thods of descriptive a	nd inductive statistics and can check the		
		ods for statistical proble			na inductive statistics and can encer the		
		nd apply suitable method		stical problems.			
					ve and inductive statistics		
Students a	are able to indepen	dently expand and deepe	en the acquired	knowledge and comp	etences.		
Course Content							
	Ourse Content Descriptive statistics: frequency distributions; graphical representations; measures (mean, variance, correlations)						
	ability theory	icy distributions, graphic	ai representatio	ons, measures (mean,	variance, correlations)		
	ariables and theore	tical distributions					
	estimation and co						
	and non-paramet	ric test methods					
Regression							
Teaching Material	· •	nd collection of former	المستعمط الأس				
information about re	elevant textbooks a	nd collection of formulas	will be provide	a via Moodle.			
Information about re	elevant textbooks a	nd collection of formulas	will be provide	d via Moodle.			
Information about relevant textbooks and collection of formulas will be provided via Moodle.							
The course content i	is internationally re	levant and applicable.					
Method of Assess	ment (if applicab	le, notes on multiple o	choice as forn	n of examination - A	APO §9a)		
Form of Examinat	tion ^{*1)} Ty	pe/Scope incl. Weight	ing ^{*2)}	Learning Object	tives/Competencies to be Assessed		
				The exam covers the	e above mentioned professional and		
Written Exam (KL90))	es		methodological skills			

Information Systems and Databases

Classification	Module ID	ĸ	(ind of Module	Number of Credits (ECTS)
Classification	1.5	Mandatory		5
Location	Language	Duration of	Frequency of Module	Max. Number of Participants

		Module		
Weiden	English	One Semester	Summer Semester	40
	Module Conven	or	Pr	ofessor / Lecturer
Prof. Dr. Thoma	of. Dr. Thomas Geigenfeind Prof. Dr. Thomas Geigenfeind			
Prerequisites*	k			
None * Note: Please	e also note the prerec	uisites according to t	he examination regulations i	in the respective valid SPO version.
	Usability		Teaching Methods	Workload
	part of the module group		Lecture; instruction seminars;	Contact time: 60 h

The module is part of the module group <i>rundamentals</i> of	Lecture, mod dedon seminars,	
Mathematics, Informatics and Scientific Methods of the Digital	practical exercise	Self-study: 60 h
Technology and Management Bachelor's degree program.		Exam preparation: 30 h
The usability in other courses of study must be checked in		Total effort: 150 h
each individual case.		
The usability in other courses of study must be checked in		

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Professional Skills:

- You can design and implement a relational database.
- You can obtain information from relational databases with the help of elementary SQL queries.

Methodological Skills:

- You can analyze operational processes with object-oriented methods and document them using the UML notation.
- You can create an object-oriented concept for a simple, operational application system.
- You can transform a class-model into a relational schema.

Personal Skills (Social Competence and Self-competence):

- You have the ability to describe complex information structures with abstract models.
- You are familiar with the basics of process management for working in a team on an IT project.

Course Content

- Information systems within a company
- Business process analysis with OO methods for system analysis and system design
- Notation in UML
- Relational database systems and their application
- Development of a relational schema
- Basics of SQL-queries
- Exercises in designing and using an exemplary relational database

Teaching Material / Reading

Michael Blaha: **UML Database Modeling Workbook**, Technics Publications, LLC (2. Februar 2014), ASIN: B00I82HHLC Janis Osis, Uldis Donins: **Topological UML Modeling: An Improved Approach for Domain Modeling and Software Development**, Elsevier; 1. Edition (16. Juni 2017), ASIN: B07385XW26

Internationality (content-related)

The content is valid in any international IT design and development environment

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)

Form of Examination ^{*1)}	Type/Scope incl. Weighting *2)	Learning Objectives/Competencies to be Assessed
Written Exam (Kl90)	Written Exam, 90 minutes Information about a possible bonus system will be provided starting in the semester the module is taught for the first time	With the exam and a possible bonus exercise, all of the above- mentioned competencies are tested.

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Research and Evaluation Methods						
Classification	Module ID	К	ind of Module	Number of Credits (ECTS)		
	1.6		Mandatory	5		
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants		
Weiden	English	One Semester	Winter Semester, start expected i 2024/2025			
	Module Conveno	r		ssor / Lecturer		
Dr. Sebastian Buhl			Dr. Sebastian Buhl			
Prerequisites*						
None * Note: Please also	o note the prerequ	lisites according to th	e examination regulations in t	ne respective valid SPO version.		
	Usability		Teaching Methods	Workload		
The module is part of the module group <i>Fundamentals of</i> <i>Mathematics, Informatics and Scientific Methods</i> of the Digital Technology and Management Bachelor's degree program. The usability in other courses of study must be checked in each individual case.			Lecture; instruction seminars; practical exercise	Contact time: 60 h Self-study: 60 h Module work preparation: 30 h Total effort: 150 h		
Learning Outcome	es					
Learning Outcomes After successful co	ompletion of the n	nodule, students will	have acquired the following pro	ofessional, methodological and		
 Be an able and critical consumer of research Be able to create a formal statement and proposal of research addressing well-formed research questions Understand the process of research inquiry and apply it to an appropriate research design Gain a practical working knowledge of a variety of research methods and analytical techniques relevant to social and/or engineering research Understand and evaluate the advantages and disadvantages of quantitative and qualitative research for addressing particular policy issues. Critically analyze and evaluate existing research reports and identify the intent of the research Effectively communicate research findings through oral, visual and written methods 						
Course Content • Role of research in management and engineering • Evidence-based practice • Applied research design process • Critical evaluation of published research • Objectivity, validity and reliability • Quantitative and qualitative research strategies • Questionnaire design • Observation methods • Interviewing • Content analysis • Data analysis						
Teaching Material	/ Reading					
Remler, D.K., & Van Ryzin, G.C. (2015) Research Methods in Practice: Strategies for Description and Causation. Sage publications.						
Internationality (content-related)						
	Research is international and uniform international standards apply.					
Method of Assess	ment (if applicable	e, notes on multiple cl	hoice as form of examination - A	APO §9a)		
Form of Examinat	tion ^{*1)} Type	e/Scope incl. Weighti	ng ^{*2)} Learning Object	tives/Competencies to be Assessed		

Module work (ModA)	Details to follow in the semester the module is taught for the first time	The form of examination covers the above mentioned professional and methodological skills.

2 Digital Technology

IoT Technology Classification Module ID **Kind of Module** Number of Credits (ECTS) 2.1 Mandatory Location Duration of **Frequency of Module** Max. Number of Participants Language Module 40 Weiden English One Semester Winter Semester **Module Convenor** Professor / Lecturer Prof. Dr. Kris Dalm Prof. Dr. Kris Dalm **Prerequisites*** None * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability **Teaching Methods** Workload The module is part of the module group Digital Technology of Lecture; instruction seminars; case Contact time: 60 h the Digital Technology and Management Bachelor's degree studies; field trip; practical Self-study: 60 h program. The usability in other courses of study must be exercise Exam preparation: 30 h checked in each individual case. Total effort: 150 h Learning Outcomes Learning Outcome After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies: Professional skills: Basics of IoT technology (hardware, software, cloud) Programming of IoT devices using a development environment IoT cloud solutions IoT application development . Embed, control and read sensors in IoT applications Visualization of IoT applications in suitable user interfaces Methodological skills: Ability to program algorithms for IoT applications Ability to develop software projects in IoT environment Ability to implement sensors and actuators using libraries in IoT projects Personal Skills (Social Competence and Self-competence): Ability to develop IoT applications using IoT devices and cloud environments. **Course Content** Introduction and basics of IoT technology IoT cloud solutions IoT hardware and software IoT application development **Teaching Material / Reading** Kernighan, Ritchie. C Programming Language, 2nd Edition. 2021. Lakhwani. Internet of Things (IoT): Principles, Paradigms and Applications of IoT. 2020 Veneri, Capasso. Hands-On Industrial Internet of Things: Create a powerful Industrial IoT infrastructure using Industry 4.0. 2018. Internationality (content-related) IoT is an international phenomenon, IoT applications are developed and used worldwide. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Type/Scope incl. Weighting *2) Learning Objectives/ Form of Examination^{*1)} **Competencies to be Assessed** Written Exam Written Exam, 90 minutes With the exam, all of the above-(KI90) mentioned competencies are

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

tested.

Product Management

Classification	Module ID	Kind of Module	Number of Credits (ECTS)
	2.2	Mandatory	5

Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants		
Weiden	English	One Semester	Summer Semester	60		
	Module Conveno	r	Professo	or / Lecturer		
Prof. Burkhard Stolz		Tamer Güner				
Prerequisites*	Prerequisites*					
None						
* Note: Please als	o note the prereq	uisites according to the	he examination regulations in the	respective valid SPO version.		
	Usability		Teaching Methods	Workload		
	5 1	<i>Digital Technology</i> of	Lecture; class discussion; case	Contact time: 60 h		
the Digital Technolog	gy and Management	. Bachelor's degree	studies; field trip; guest lecture	Self-study: 60 h		

checked in each individual case.	

program. The usability in other courses of study must be

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Professional Skills:

- Students have knowledge of how product management fits into a modern, lean and agile corporate structure and are familiar with the interfaces to other areas and roles in the company.
- The students learn how to analyze and evaluate suitable markets for product launches. In addition, the students know possibilities for the collection of customer requirements in the area of requirements analysis.
- The students know possible product strategies and can apply them practically.
- The students know the gates and phases of the product development cycle from the product manager's point of view and know his task and influence in the entire product life cycle.

Methodological Skills: Students learn methods...

- for idea generation and evaluation for new products.
- for market analysis and generation of a product launch strategy.
- for identifying, structuring and prioritizing customer requirements.
- and know its role and influence throughout the product life cycle.

Personal Skills (Social Competence and Self-competence):

- Team-oriented processing of examples and case studies in the field of product management.
- Communication and presentation of results from individual and group work.

Course Content

- Definition of the role of product management with its tasks and objectives.
- Integration of product management into different product development models and its interfaces to other roles and areas in the company.
- Requirements and market analysis and ways to generate new product ideas.
- Product portfolio management
- Development and derivation of an appropriate product development strategy and product roadmap.
- Influence in the product marketing mix and establishment of marketing strategies.
- Participation and influence in the product development process and product life cycle.
- Product launch opportunities and subsequent control.
- Digital business transformation and its influence on product management.
- Different characteristics and lifestyles of product management in the enterprise: Startup vs. SME vs. corporation.

Teaching Material / Reading

- Gorchels L.: Product Manager's Handbook The Complete Product Management Resource, second edition; The McGraw-Hill Companies; 2000.
- Steinhardt G.: The Product Manager's Toolkit®; Springer, 2017.
- Anon J. und Villaumbrosia C. G.: The Product Book; Product School, 2017.
- Nandakumar M.: Lean Product Management Successful products from fuzzy business ideas; Packt Publishing, Limited, 2018.
- Ellis G.: Project Management in Product Development; Elsevier, 2106.
- Barkley B. T.: Project Management In New Product Development; The McGraw-Hill Companies, 2008.
- Martinelli R. J. and Milosevic D. Z.: Project Management Toolbox 2nd Edition; Wiley, 2016.
- Herrmann A. und Huber F.: Produktmanagement Grundlagen Methoden Beispiele, 3., vollständig überarbeitete und erweiterte Auflage; Springer, 2013.

Module work preparation: 30 h

Total effort: 150 h

Internationality (content-related)							
	Product Management usually comprises the development and management of products for and in international markets, including e.g. technical and managerial issues in international contexts						
Method of Assessment (if	applicable, notes on multiple choice as for	m of examination - APO §9a)					
Form of Examination ^{*1)}	Type/Scope incl. Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed					
Module work (ModA)	Group project with individual presentations: Elaboration of a topic/case study	The group project is used to test the practical learning content and competence profiles, including teamwork and presentation skills.					

Sensors for S	Sensors for Smart Systems						
Classification	Module ID	Kind of Module	Number of Credits (ECTS)				
	2.3	Mandatory	5				

Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants		
Weiden	English	One Semester	Winter Semester	60		
	Module Convence	r	Professo	or / Lecturer		
Prof. Dr. Kris Dalm			Arno Erzberger			
Prerequisites*	Prerequisites*					
None * Note: Please als	o note the prereg	uisites according to tl	he examination regulations in the	respective valid SPO version.		
	Usability	-	Teaching Methods	Workload		
The module is part of the Digital Technolog program. The usabili checked in each indi	gy and Management	5	Lecture; case studies; practical exercise; demonstration	Contact time: 60 h Self-study: 60 h Exam preparation: 30 h Total effort: 150 h		

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Professional skills and competencies:

- know structure and basic elements of sensors
- know physical sensor principles
- know physical signal transmission
- evaluate performance and accuracy of sensors
- evaluate sensor specifications
- know costs and prices of sensor solutions
- know sensor system interfaces (electrical and mechanical)
- evaluate sensor system integration
- know and evaluate disturbances variables and the related system impact.

Methodological skills and competencies:

- decide if a sensor is necessary in the system or not
- decide what kind of sensors are necessary in the system
- cost-benefit consideration in sensor selection and design
- question and evaluate sensor specifications, requirements and performance

Personal skills and competencies:

systematically and competently communicating commercial and technical sensor requirements with product developers and sensor suppliers. Course Content

This module provides students with a comprehensive overview of the broad field of sensors for smart systems in the lecture, covering functional principles, signal processing, interfaces and applications. The various sensors are presented systematically. Basic concepts for sensing requirements and performance are presented, and costs and prices for sensor deployment are evaluated. In addition to the technical/physical understanding and resulting costs, the ability to communicate professionally with both sensor/system developers and sensor suppliers is provided. A detailed practical example example with live-demonstration of a technical/commercial sensor design is developed, evaluated and alternative solutions are considered. Solutions for various sensor tasks are worked out and presented by individual student groups.

Teaching Material / Reading

Jacob, Fraden, "Handbook of Modern Sensors", Springer Verlag

Olfa, Kanoun, Nabil, Derbel, Faouzi, Derbel "Sensors, Circuits & Instrumentation Systems", De Gruyter

Internationality (content-related)

The course content is internationally and universally relevant and applicable.

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Written Exam (KI90) Written Exam, 90 minutes With the exam and a possible bonus exercise, all of the abovementioned competencies are tested.

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Communicati	on Technolog	IY		
Classification	Module ID	K	ind of Module	Number of Credits (ECTS)
	2.4		Mandatory	5
Location	Languaga	Duration of	Execution of Medule	Max Number of Darticinante

Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Summer Semester 36	
	Module Convend	r	Professo	or / Lecturer
Prof. Dr. Kris Dalm			Prof. Dr. Kris Dalm	
Prerequisites*				
None; * Note: Please	e also note the prere	equisites according to the	e examination regulations in the respe	ctive valid SPO version.
	Usability		Teaching Methods	Workload
The module is part of	of the module group	Digital Technology of	Lecture; case studies; practical	Contact time: 60 h
the Digital Technology and Management Bachelor's degree			exercise; demonstration	Self-study: 60 h
program. The usability in other courses of study must be				Exam preparation: 30 h
checked in each indi	vidual case.			Total effort: 150 h

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Students will be able to describe the components and functions of communications technologies required for IoT and industrial communication. **Professional skills:**

- Basics of communication technology
- Communication in Smart Factories and Industry 4.0 environments
- Knowing relevant parameters of wired and wireless communication technologies
- Usage and application of communication technologies
- Automation basics and digital technology
- Condition monitoring using communication technologies
- Methodological skills:
 - Ability to develop automation applications
 - Being familiar with OSI and TCP/IP models
 - Knowing automation pyramid

Personal Skills (Social Competence and Self-competence):

Ability to understand communication technologies and implementation in personal and industrial environments.

Course Content

- Introduction to communication technology
- Industry 4.0 and automation
- PLC
- Automation development and communication basics
- Basic communication technologies
- Network technologies
- Industrial and mobile communication technologies

Teaching Material / Reading

- Karaali. Grundlagen der Steuerungstechnik: Einführung mit Übungen. 2018.
- Tapken. SPS Theorie und Praxis: mit Übungsaufgaben und Programmier- und Simulationssoftware. 2020.
- Bök, Noack, Müller, Behnke. Computernetze und Internet of Things. 2020.
- Sadiku, Akujuobi. Fundamentals of Computer Networks. 2022.
- Sauter. Grundkurs Mobile Kommunikationssysteme. 2018.

Internationality (content-related)

The course content is internationally	and universally relevant and applicable.
---------------------------------------	--

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)						
Form of Examination ^{*1)} Type/Scope incl. Weighting ^{*2)} Learning Objectives/ Competencies to be Assessed						
Written Exam (KI90)Written Exam, 90 minutesWith the exam, all of the above-mentioned competencies are tested.						

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Production ⁻	Technology			
Classification	Module ID		Kind of Module	Number of Credits (ECTS)
Chassinication	2.5		Mandatory	5
		1	•	
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Winter Semester	60
	Module Convend	or	Professo	r / Lecturer
Prof. Dr. Kris Dalm			Andreas Dörner	
Prerequisites*				
None * Note: Please a	lso note the prereq	uisites according to t	the examination regulations in the i	respective valid SPO version.
	Usability		Teaching Methods	Workload
		<i>Digital Technology</i> of	Lecture; case studies; practical	Contact time: 60 h
	logy and Managemen		exercise; demonstration	Self-study: 60 h
checked in each in	oility in other courses	or study must be		Exam preparation: 30 h Total effort: 150 h
			1	
Learning Outcon	nes			
Learning Outcomes	completion of the	module, students will	have acquired the following profes	sional methodological and
	nd competencies:	module, students win	nave acquired the following profes	ssional, methodological and
Profession	•			
				nt trends like Industry 4.0, students will
			ing processes for production. In doing s	
			as well as the economical use of resource rocesses for products and their component	
			, MES, ERP, PLM) as well as analytical a	
	gical Skills:		, , , ,	
			rocesses using in-depth subject-oriented	methodological knowledge. This
			process forces or predicting tool life.	
		etence and Self-comp		verse sible means and to only a
	ex subject-related pro		questions of production technology in a	responsible manner and to solve
Course Content	ex subject related pro			
	duction Management			
	echnology Basics			
- Additive Manu				
	& Smart Factory ystems for productior	MES EDD DIM)		
	aintenance Approach			
Teaching Materia				
-		ading will be communic	ated via Moodle	
Internationality	(content-related)			
The course conten	t is internationally an	d universally relevant an	nd applicable.	
Method of Asses	sment (if applicabl	e, notes on multiple o	choice as form of examination - APC) §9a)
Form of Examination ^{*1)}		Type/Scope incl.	Weighting ^{*2)}	Learning Objectives/ Competencies to be Assessed
Written Exam	Written Exam, 90 m	ninutes		With the exam and a possible bonus
(KI90)	Bonus system: There is	the possibility of grade impro-	vement (German: "Notenverbesserung") through	exercise, all of the above-mentioned
			ing a presentation of a short relevant topic nus of max. 10 % of the total number of points	competencies are tested.
			the same semester to the points actually	
	attained in the written e	examination. The grade calculate	ation then refers to the total points, whereby	
			bnus points apply only in the semester in which beginning of the semester and a registration	
	deadline for the accepta	ince by the students will be a	nnounced. The offer exists only in semesters in	
		d by the lecturer. There is no : "Notenverbesserung") by th	individual entitlement for students to an offer electurer.	

Innovation and Technology Lifecycle Management

Classification	Module ID	Kind of Module	Number of Credits (ECTS)
	2.6	Mandatory	5

Location	Language	Duration of Module	Freque	ncy of Module	Max. Number of Participants
Weiden	English	One Semester	Winter Seme 2024/25	ster, start expected in	60
	Module Conven	or		Professo	or / Lecturer
Prof. Burkhard Stolz			within the DI https://www.	vill be taught as part of LUGIS projects. Detail oth-aw.de/en/studies/s	f the Ukrainian-German Teaching Week s will be available via this link
Prerequisites*					
None					
* Note: Please als	o note the prerec Usability	uisites according to t		on regulations in the ing Methods	respective valid SPO version. Workload
The module is part of		<i>Digital Technology</i> of		studies; practical	Contact time: 60 h
the Digital Technolog			exercise; den		Self-study: 60 h
program. The usabili			computer lab		Exam preparation: 30 h
checked in each indi		or study must be			Total effort: 150 h
			1		
Learning Outcome					
Learning Outcome Learning Outcomes					
After successful co personal skills and		module, students will	have acquire	l the following profe	essional, methodological and
 Presentation 	on and knowledge	of the basic theories.			
		ing instruments of techn	ology and innov	ation management in a	an international context
		on project in the areas o			
		pals of a development pr			
		ng aware of the social, e			
		nt of new technologies a			
i ney pron		the of field teenhologies t	and produces by		Life methodology
Course Content					
		ife cycle, technology ass		s and basic strategies,	
		organisation of processe	es,		
control and measure					
promotion of innova		es, joint ventures,			
future developments					
Teaching Material	/ Reading				
Technologiemanage	ment: Schuh: Sprin	ger Verlag, 2011, 2. Aufl	lage:		
		ger Verlag, 2010, 2. Aufla			
		Gassmann; Springer Ve		uflage;	
		ihn; Schäffer Poeschel Ve			
		ngsmanagement; Weule;			
Internationality (d	content-related)			-	
_					
The content is dedic	ated to be used in a	an international context.			
Method of Assess	nent (if applicab	e, notes on multiple c	choice as form	of examination - AP	O §9a)
	• *1)		- *^		
Form of Examinat	• 71	pe/Scope incl. Weight	_	5 5	ves/Competencies to be Assessed
Module Work		be provided starting in the ser aught for the first time.	mester the		, all of the above-mentioned
(ModA)		augne for the first tille.		competencies are test	ed.

3 Management

Fundamenta	als of Busines	s Administratior	า			
Classification	Module ID		Kind of Modul	e	Number of Credits (ECTS))
	3.1		Mandatory		5	
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participan	nts
Weiden and/or online	English	One Semester	Winter Seme	ester	60	
	Module Conven	or		Profess	sor / Lecturer	
Prof. Dr. Dr. Stefar	ne Steinhauser		Julia Rank			
Prerequisites*						
None * Note: Please al	so note the process	ujisites according to t	he examinati	on regulations in the	e respective valid SPO version.	
	Usability	according to t		hing Methods	Workload	
This module is part	t of the module grou	p <i>Management</i> in the		rcises, guest lecture	Contact time:	60 h
Digital Technology	and Management ba	chelor program.			Self-study:	90 h
• •	other programs of th	e university is to be			Total workload: 1	150 h
examined individua	any.		1		1	
Learning Outcom	1es					
Learning Outcomes					essional, methodological and	
 Stursele bac Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec Sturdec	ected methods for de ekground. dents are familiar wit isions within the fran dents understand the lological Skills: dents apply selected al Skills (Social Cor dents are familiar wit nagement contexts. dents analyse, interp mentals of Business ftslehre") from a man tion: Why we do bus ational structure and ment: Fundamentals, resources te Culture and Innovation	cision-making and for as the relevant relationsh nework of corporate mar e integration of companie methods of analysis and mpetence and Self-con the appropriate langua ret and structure simple Administration" introduce nagerial perspective. The iness, Corporate goals an	sessing busines hips between con agement. es in a global m decision-makin mpetence): age for persona practical busine es you to the m course require nd objectives,	ss management situation ompanies and the environment. In arket environment. In practical case studies I communication and do ess issues in small grout main concepts of Busine is no specific prerequisi	ess Administration	
Teaching Materia	-	be provided in the respe	ctive semester	script!		
	(content-related)			p~		
		d universe li	d partie 11			
		d universally relevant an				
method of Asses	sment (if applicab	le, notes on multiple o	noice as forn	n of examination - A	PU §9a)	
Form of Examina	ation ^{*1)} Ty	pe/Scope incl. Weight	ing ^{*2)}	Learning Object	ives/Competencies to be Assess	ed
Written Exam (Kl90)	Information possible bo	ixam, 90 minutes n about multiple-choice questic nus system will be provided vi n the first lecture.		With the exam, all of tested.	the above-mentioned competencies	are

Principles of Accounting and Finance

Classification	Module ID	Kind of Module Number of Credits (ECT				ECTS)
	3.2	Mandatory			5	
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Parti	cipants
Weiden Er	iglish	One Semester	Winter Seme	ester	60	
	odule Convenc)r		Profess	or / Lecturer	
Prof. Dr. Dr. Stefanie Ste	einhauser		Dr. Thomas	List		
Prerequisites*						
None * Note: Please also n	ote the prerea	uisites according to t	he examinati	on regulations in the	e respective valid SPO versi	ion
	Usability	, ,		hing Methods	Workload	
This module is part of th				inar with exercises,	Contact time:	60 h
Digital Technology and I Compatibility with other			guest lecture	e, computer exercise	Self-study: Total workload:	90 h 150 h
examined individually.	programs or the	e university is to be				150 11
· · · · · · · · · · · · · · · · · · ·						
			-			
After successful comp personal skills and co		nodule, students will	have acquire	d the following prof	essional, methodological a	nd
personal skins and co	inpetencies.					
Professional and Met						
		elements and functions			usiness cases and derive implic	cations
 Describe from the 		its of filalidgerial and co	st accounting,			Lations
 know the 	basics and gair				al statements and managemen	
			nalysis and are	able to calculate releva	ant key figures and analyse bal	lance
		m level of complexity.	cost informatio	n in order to subsequer	tly apply it to determine cost r	rates or
		and system competence				
					acquired instrumental knowled	dge and
		simple approaches (prob rate finance and the tyr			cisions and can describe them	
		estment decisions and se				
		investment calculation	and corporate f	inance to solve practica	al business problems of low to	medium
complexi		uro and colvo practical o	westions and t	acks relating to corpora	te finance and the assessment	of
	nt projects.	ure and solve practical c				
Personal Skills (Socia	l Competence					
			ation in assigni	ments, for later persona	al communication and discussion	on skills in
		accounting topics.	s issues relatin	a to corporate finance a	and the assessment of investm	nent
 analyse, interpret and structure practical business issues relating to corporate finance and the assessment of investment projects working individually or in small teams. 						
Course Content	<u> </u>					
 Tasks and basic ter cost accounting 	ms or external a	and internal accounting				
 managerial account 	ing					
 Basic terminology of 	of the financial in	ndustry, objectives and i				
		capital; types of financir lity planning: basics of i			ncing, credit security. ant procedures of static and dy	vnamic
		estment; investment pl				
Teaching Material / R						
Detailed bibliographical		be provided in the respe	ective semester	script!		
Internationality (con	tent-related)					
The course content is in						
Method of Assessmer	t (if applicable	e, notes on multiple o	choice as forn	n of examination - Al	PO §9a)	
Form of Examination	*1) Typ	e/Scope incl. Weight	ting ^{*2)}	Learning Object	ves/Competencies to be A	ssessed
Written Exam		xam, 90 minutes			possible bonus exercise, all of	the above-
(KI90)		about multiple-choice question nus system will be provided vi		mentioned competen	cies are tested.	
		the first lecture.				

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Classification	Module ID		Kind of Module	Number of Credits (ECTS)
Classification	3,3		Mandatory	5
				-
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Summer Semester (for winter availability, please contect the module convenor)	60
	Module Convend	or	Professo	or / Lecturer
Prof. Dr. Matthias	Lederer		Prof. Dr. Matthias Lederer	
Prerequisites*				
None * Note: Please also note	e the prerequisites accordir	ng to the examination regulati	ions in the respective valid SPO version.	
	Usability		Teaching Methods	Workload
	rt of the module group		Lecture, seminar with exercises,	Contact time: 60 h
	y and Management ba other programs of the		computer exercise	Self-study: 90 h Total workload: 150 h
examined individua		e university is to be		
Learning Outcom	mes			
Learning Outcomes				
		module, students wil	II have acquired the following profe	essional, methodological and
	and competencies: sional and Methodo	Jogical Skills:		
			epts in the field of business processes.	
	e methods of business		F	
• Re	cognize possibilities fo	or the optimization of bu	usiness processes and plan their realizat	tion.
			re business processes of a company.	
			most important production-related data,	
		and transfer relevant ar	nd necessary data for the software-supp	ported execution of real business
	ocesses. I Skills (Social Con	mpetence and Self-co	omnotonco);	
			open and structured way.	
			n organisations and are able to use ther	m.
			ratively as a team in order to solve a pro	
	anagement in a joint d			
		ntly expand and deeper	n the acquired knowledge and competer	nces.
Course Content				1
			ocess modeling, process optimization and	d process execution
	-		echniques (e.g., EPC, BPMN)	
	s of process design, pi	rocess optimization		
5	of current BPM tools			
 Structur 	e, sub-processes and	activities of operational	I, production-related business processes	S
 Dissemir 	nation and functionali	ty of operational planni	ing systems as actors of a business proc	cess
Relevant	t data types and sour	rces for software-suppor	rted business processes	
 Types of 	f integration in the co	ntext of software-suppo	orted business processes	
	s analysis			
Teaching Materi	· · · · · · · · · · · · · · · · · · ·			
				d edition, Norderstedt: Books on Demand.
				nagement, 2nd edition, Berlin: Springer.
			mar, P.: Enterprise Resource Planning, C	
,	,	2	tion Systems, 15th edition, Harlow: Pear Springer Science & Business Media.	rson Education Limited.
	. ,			
	(content-related)			
The course conten	it is internationally and	nd universally relevant a	nd applicable.	
			choice as form of examination - AP	
Form of Examination ^{*1)}	Type/Scope incl.	Weighting ^{*2)}		Learning Objectives/ Competencies to be Assessed
Written Exam	Written Exam, 90 m	ninutes		
(KI90)				

Marketing an	d Sales		
Classification	Module ID	Kind of Module	Number of Credits (ECTS)
		Mandatory	5

LocationLanguageDuration of ModuleFrequency of ModuleMax. Number of ParticipantsWeidenEnglishOne SemesterWinter60Module ConvenorProfessor / LecturerProf. Dr. Julia HeiglProf. Dr. Julia HeiglPrerequisites*None * Note: Please also note the prerequisites according to the examination regulations in the sepective valid SPO version.Mone * Note: Please also note the prerequisites according to the examination regulations in the preventive valid SPO version.Contact time: 90 hThis module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group <i>Economics</i> in the Industrial Engineering bachelor program. Compatibility with other programs of the university is to be examined individually.Lecture, project work, practical applications using softwareContact time: Software60 h Self-study: 150 h						
Module Convenor Professor / Lecturer Prof. Dr. Julia Heigl Prof. Dr. Julia Heigl Prerequisites* Prerequisites according to the examination regulations in the respective valid SPO version. None * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workload This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with other Lecture, seminar with exercises, guest lecture, project work, software Contact time: 60 h Self-study: 90 h	Location	Language		Frequency of Module	Max. Number of Partie	cipants
Prof. Dr. Julia Heigl Prof. Dr. Julia Heigl Prerequisites* Prof. Dr. Julia Heigl None * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workload This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group <i>Economics</i> in the Industrial Engineering bachelor program. Compatibility with other Lecture, seminar with exercises, guest lecture, project work, software Contact time: 60 h	Weiden	English	One Semester	Winter	60	
Vone * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workload This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with other Lecture, seminar with exercises, guest lecture, project work, practical applications using software Contact time: 60 h		Module Convend	r	Professo	or / Lecturer	
None * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Usability Teaching Methods Workload This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with other Lecture, seminar with exercises, guest lecture, project work, software Contact time: 60 h	Prof. Dr. Julia Heigl			Prof. Dr. Julia Heigl		
* Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workload This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with other Lecture, seminar with exercises, guest lecture, project work, software Contact time: 60 h Self-study: 90 h 50 h 50 h 50 h 50 h	Prerequisites*					
* Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workload This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with other Lecture, seminar with exercises, guest lecture, project work, software Contact time: 60 h Self-study: 90 h 50 h 50 h 50 h 50 h						
UsabilityTeaching MethodsWorkloadThis module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with otherLecture, seminar with exercises, guest lecture, project work, practical applications using softwareContact time: Self-study:60 h 90 hTotal workload:150 h	None					
This module is part of the module group Management in the Digital Technology and Management bachelor program and part of the module group Economics in the Industrial Engineering bachelor program. Compatibility with otherLecture, seminar with exercises, guest lecture, project work, practical applications usingContact time: Self-study: Total workload:60 h0 h guest lecture, project work, software510 h510 h	* Note: Please als	o note the prereq	uisites according to t	he examination regulations in the	respective valid SPO version	on.
Digital Technology and Management bachelor program and part of the module group <i>Economics</i> in the Industrial Engineering bachelor program. Compatibility with otherguest lecture, project work, practical applications using softwareSelf-study: Total workload:90 h150 h		Usability		Teaching Methods	Workload	
	Digital Technology a part of the module g Engineering bachelo	nd Management bac group <i>Economics</i> in t r program. Compatil	chelor program and the Industrial bility with other	guest lecture, project work, practical applications using	Self-study:	90 h

Learning Outcomes

Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Professional skills:

- Students know the principles, basic analytical methods, main strategies and instruments of B2B marketing. In particular, they can describe the essential elements of marketing planning in B2B business as well as the importance of segmentation and customer prioritization, describe possible marketing strategies and starting points for defining value propositions, describe possible instruments for their operational implementation (product/service, price, communication) and know basic KPIs of marketing controlling.
- Students describe the operational sales process and know suitable instruments and methods for identifying targets and winning and developing customers.
- They reflect in a differentiated manner on the effects of digitalization on marketing and sales with regard to opportunities and risks.

Methodological skills:

- Students apply typical instruments of customer, market and competition analysis in simple case studies.
- Based on their analysis, they develop suitable marketing strategies, value propositions and sales concepts.
- They select suitable instruments of the marketing mix and apply these to case studies.
- They know key market, marketing and sales figures and apply these in case studies and data sets.
- They use phase-specific sales planning and sales tools.

Personal skills:

- Practical skills in sales presentation, relationship building, and effective negotiation strategies
- A grasp of ethical considerations in marketing and sales, with the ability to identify and navigate ethical dilemmas.

• Improved communication skills, both written and verbal, essential for effective marketing and sales interactions.

Course Content

- Special features of marketing in B2B (e.g. decision-making process, investment/life cycle approach)
- Market and customer planning: procedure, methods and instruments
- Strategies in B2B marketing and value proposition design
- Product (group) management, importance of services, opportunities through digitalization in product and service policy
- Price management
- Traditional vs. digital communication measures
- Marketing controlling
- Fundamentals and core process of sales management
- Acquiring new customers and initiating business
- Buying center analyses and management
- Checking inquiries and preparing offers
- Value selling
- Fundamentals of sales talks and negotiations
- Customer relationship management, customer retention and loyalty measures

Teaching Material / Reading

• Will be provided in due time via Moodle

Internationality (content	-related)	
The course content is interna studies and practical example		ompanies from around the world will serve as example for case
Method of Assessment (if	f applicable, notes on multiple choice as form	n of examination - APO §9a)
Form of Examination ^{*1)}	Type/Scope incl. Weighting *2)	Learning Objectives/Competencies to be Assessed
Written Exam (90 minutes)	Written exam, duration 90 minutes (100 points)	The group project is used to test the practical learning content and competence profiles, including teamwork and presentation skills.
	Reference to bonus system:	
	A maximum of 20 points can be earned by independently completing accompanying	
	exercises and case studies. The tasks and	
	their due dates will be published in Moodle	
	during the semester and must be submitted	
	there by the deadline. Participation in the bonus system is voluntary.	
	If the module examination is not passed, the	
	bonus earned is forfeited. It is not possible to	
	transfer bonus points to repeat examinations.	

Classification	Module ID		Kind of Modul	e	Number of Credits (E	CTS)
	3.5		Mandatory		5	
Location	Language	Duration of	Frequ	ency of Module	Max. Number of Partic	ipants
Weiden	English	Module One Semester	Summer Ser	nester, start expected	60	
			in 2024	Durafaaa		
Prof. Dr. Julia Heigl	Module Conven	Dr	Prof. Dr. Juli		or / Lecturer	
Prerequisites*						
-						
None * Note: Please also	note the prerec	uisites according to 1	the examinati	on regulations in the	e respective valid SPO versio	on.
	Usability			hing Methods	Workload	
This module is part of Digital Technology and Compatibility with othe examined individually.	Management ba	ichelor program.		ect work, practical using software	Contact time: Self-study: Total workload:	60 90 150 I
earning Outcomes						
earning Outcomes After successful con	npletion of the	module, students will	l have acquire	d the following prof	essional, methodological an	d
ersonal skills and o	competencies:		-			
ReflectWork ir	on the actions of groups, split tas	mpetence and Self-co management ethically a ks ness decisions and actio	and in relation t			
Course Content						
The students take on t Complex decision-mak communication, produ logistics) are prepared Decisions are made on segment report; cost a students receive or de	he role of the main ing situations (inc ction and resourc and processed w the basis of bus accounting; mana velop planning ar	e planning, investment of vith information support iness analyses (including gement with key figures and control tools for this p	ompete in teams regies, portfolio decisions and fi in the group. g financial repor s on profitability purpose.	s. management, defining nancing, personnel ma ts: balance sheet, inco , liquidity, financing, as	product characteristics, price, s nagement, raw material purchas me statement, cash flow statem set structure) and calculations. ame concludes with the simulat	sing and nent, The
Teaching Material /	Reading					
Script, exercises and fu	urther information	n are made available via e announced in the first		anagement system "Mo	odle". A registration for the cou	urse is
Internationality (co	•					
Method of Assessme	ent (if applicab	le, notes on multiple o	choice as form	of examination - A	PO 69a)	
Form of Examinatio		pe/Scope incl. Weight			ives/Competencies to be As	sessed
Module work (ModA)	Project W 50% Pres presental 50% writ discussio	/ork in Groups sentation, similar to boar tion at annual shareholde ten report, similar to Ma n and analysis of financia ts of operations (MD&A)	rd er meeting inagement's al condition	The group project is u	used to test the practical learnin iles, including teamwork and pr	ng conten

4 **Integrative Modules**

Project Manag	gement and	Agile Methods				
Classification	Module ID	Kind of Module			Number of Credits (ECTS)	
	4.1	Mandatory			5	
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants	
Weiden	English	One Semester	Winter Seme	ester	60	
	Module Conveno	r		Professo	or / Lecturer	
Prof. Dr. Kris Dalm			Prof. Dr. Kris	S Dalm / Peter Cizek		
Prerequisites* None						
	note the prereq	uisites according to th	ne examinati	on regulations in the	respective valid SPO version.	
Usability			Teac	hing Methods	Workload	
the Digital Technology		<i>Integrative Modules</i> of Bachelor's degree			Contact time/coaching: 60 h Self-study: 90 h	
program. The usabilit	y in other courses of				Total workload: 150 h	
checked in each indiv	idual case.					
Learning Outcomes	· · · · · · · · · · · · · · · · · · ·					
Learning Outcomes			-			
After successful co personal skills and		nodule, students will	have acquire	d the following profe	essional, methodological and	
 They a They a They a They a They a They a Personal S The st They a They a 	are able to select the can apply these me are able to manage are prepared to dea Skills (Social Com udents approach the are able to work an have the ability to in	asic methods and tools c appropriate ones for a thods and tools flexibly t their own projects respo- al with the dynamics of a apetence and Self-con heir own projects in an o d communicate cooperain ndependently expand an	a given context to projects. onsibly. real project. npetence): pen and struct tively as a team id deepen the	tured way. n to manage a project t acquired knowledge and		
		esses of conventional pro			davie structure and Carett shart	
	of basic project do ource planning in pl		t pro- posal, p	roject order, work-break	<pre><down-structure and="" gantt-chart<="" pre=""></down-structure></pre>	
- Use of an IT-too	I with exercises for	project planning and co				
		lection and versatility in roject management met				
		roject management met	nous			
Teaching Material	-					
 Bibik, I.:"How to Aken van, J./Ber management stu Campell, C. (200 Wiley. Easterby-Smith, Hermarij, J. (201 	kill the Scrum Mor ends, H./Bij van de idents. Cambridge: 17): The One-Page- M./Thorpe, R./Jack	Cambridge University Project Manager, Com- 1 sson, P.R. (2015): Manag	2018 blving in organ ress. municate and i gement & Busi	izations. A methodologi manage any project wit ness Research, 5 th editi	cal handbook for business and h a single sheet of pa- per. Hoboken:	
Publishing. Internationality (co	ontent-related)					
	Sincent related)					
Method of Assessm	ient (if applicable	e, notes on multiple c	noice as forn	n of examination - AP	чо <u>8</u> 9а)	
Form of Examination	on ^{*1)} Typ	e/Scope incl. Weighti	ing ^{*2)}	Learning Objecti	ves/Competencies to be Assessed	
Module work (ModA)	Details to fo the first time	llow in the semester the modu e	le is taught for	The form of examinati professional and meth	ion covers the above mentioned nodological skills.	

Logistics 1				
Classification	Module ID		Kind of Module	Number of Credits (ECTS)
	4.2		Mandatory	5
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	1 semester	Each summer semester	60
	Module Conveno	r	Professo	or / Lecturer
Prof. DrIng. Günte	r Kummetsteiner		Harald Weber	
Prerequisites*				
None * Note: Please als	so note the prerea	uisites according to	the examination regulations in the	respective valid SPO version.

Usability	Teaching Methods	Workload
The module is part of the module group Integrative Modules	Lectures with integrated practical	Contact time: 60 h
of the Digital Technology and Management Bachelor's degree	demonstrations and exercises	Pre- and post-processing: 50 h
program. The usability in other courses of study must be		Exam preparation: 40 h
checked in each individual case.		Total 150h

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological, and personal skills and competencies:

• Professional Skills:

- Knowledge on logistics: Terms, problem statements, tasks, and common methods.
- Ability to explain and use selected calculation methods.
- Understand logistical principles and opportunities offered by an SAP ERP system (ECC 6.0 and S/4HANA).

• Methodological Skills:

- Ability to know and rate different options and to consult regarding usability in different scenarios.
- Ability to use logistics theories in practice, i.e., execute material requirements planning in an SAP ERP system.

• Personal Skills (Social Competence and Self-competence):

- Ability to plan and execute typical logistics tasks from the perspective of different roles.
- Ability to discuss with stakeholders and logistics experts on professional level.
- Ability to collaborate as a competent interdisciplinary project team member for common logistics topics.

Course Content

- Introduction in logistics and logistics components of SAP ERP
- Product and production planning
- Production
- Procurement logistics
- Inventory management
- Distribution logistics
- Quality management (optionally)
- Recent trends and outlook

Teaching Material / Reading

Presentation script, further exercises, further training material used or recommended in lessons.

Internationality (content-related)

Much of the content covered is of relevance worldwide. One objective is to illustrate how logistics could help regarding competitiveness in a globalized world. Legal specifics of countries are not mentioned. ERP systems like SAP S/4HANA are used globally, especially in bigger companies. The terms used are valid in international context.

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)				
Form of Examination ^{*1)}	Type/Scope incl. Weighting *2)	Learning Objectives/Competencies to be Assessed		
Written examination (KI90)	90 min. (Weighting: 100%)	The written examination assesses the entire learning contents and competence profiles.		

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Industrial En	gineering							
Classification	Module ID	K	ind of Modul	e	Number of Credits (ECTS)			
	4.3		Mandatory		5			
Location	Language	Duration of Module		ency of Module	Max. Number of Participants			
Weiden	English	One Semester	Summer Sen	nester	60			
	Module Convend	r			or / Lecturer			
Prof. Dr. Kris Dalm			Andreas Dör	ner				
Prerequisites*								
None								
NULE. Flease dis	Usability	uisites according to th		hing Methods	respective valid SPO version. Workload			
The module is part o the Digital Technolog program. The usabili checked in each indiv	gy and Management ty in other courses		Lectures with	n integrated practical ons and exercises	Contact time:60 hSelf-study and exam preparation:90 hTotal workload:150 h			
			·		· · · · · · · · · · · · · · · · · · ·			
Learning Outcome	s							
Learning Outcomes After successful co personal skills and		nodule, students will	have acquire	d the following profe	essional, methodological and			
 Stude and ti They Methodol Stude Personal 	 Students will be able to explain the essential basics and core functions of operational performance (focus: production of goods) and their interrelationships. They can apply selected calculation methods. Methodological Skills: Students can comprehend technical contents and use them in a problem-oriented manner. Personal Skills (Social Competence and Self-competence): 							
Course Content								
· ·	Basic documents (drawings, parts lists, work plans) and essential tasks of order processing in manufacturing companies, i. a. from the areas of work planning, purchasing, production and assembly.							
Teaching Material	/ Reading							
		itional media (photo, vid	leo,)					
Internationality (c	content-related)							
Method of Assess	nent (if applicable	e, notes on multiple cl	hoice as form	n of examination - AP	PO §9a)			
Form of Examinat	ion ^{*1)} Typ	e/Scope incl. Weighti	ing ^{*2)}	Learning Objectiv	ves/Competencies to be Assessed			
Written Exam (Kl90)	Information possible bon	cam, 90 minutes about multiple-choice question us system will be provided sta e module is taught for the first	arting in the	With the exam and a mentioned competenc	possible bonus exercise, all of the above- ies are tested.			

Ethics in Business and Technology

Classification	Module ID		Kind of Module	Number of Credits (ECTS)
	4.4		Mandatory	5
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Summer Semester	60
	Module Conven	or	Profe	ssor / Lecturer
Prof. Dr. Julia Heig	I		Dr. Alexander Herzner / Georg Kl	ampfl
Prerequisites*				

* Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version.						
Usability	Teaching Methods	Workload				
The module is part of the module group Integrative Modules of	Lectures with integrated practical	Contact time/coaching:	60 h			
the Digital Technology and Management Bachelor's degree	demonstrations and exercises,	Self-study:	90 h			
program. The usability in other courses of study must be	project work	Total workload:	150 h			
checked in each individual case.						

Learning Outcomes

After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

- Understanding of the concept of values, morality, as well as cultural beliefs and upbringing in all areas of business and technology
- from consumer rights to corporate social responsibility.
- Ability to reflect upon consequences of decisions made.
- Understanding of consumers' today expectations and demand for integrity, honesty, and transparency in all levels of their environment.

Part A: Business Ethics

- Identify, describe, and explain, business ethics and its importance to business.
- Identify, understand, explain, and critically analyse, current ethical issues in business.
- Identify, describe, explain, and critically analyse, current theory on ethical theory and ethical decision-making.
- Identify, describe, explain, and critically analyse, common management practices designed to facilitate and encourage ethical business.

Part B: Technology Ethics:

- define the term and the associated subject area of technology ethics and relate it to the social challenges of new technologies.
- be familiar with ethical decision-making models in the context of technology ethics and apply these to case studies.
- develop and apply appropriate evaluation and consideration criteria for (new) innovative technologies.
- develop their own ethical position on technology ethics and apply it in ethical-argumentative discussions.
- understand the content of technology assessment and develop an understanding of future relevant developments in technology ethics

Course Content

Ethical reflection on the impact of digitalisation in different areas of the economy and society

Part A: Business Ethics

- Introduction to Business Ethics
- Framing Business Ethics: Corporate Responsibility, Stakeholders, and Citizenship
- Reading
- Evaluating Business Ethics: Normative Ethical Theories
- Making Decisions in Business Ethics: Descriptive Ethical Theories
- Managing Business Ethics Tools and Techniques of Business Ethics Management

Part B: Technology Ethics:

- Introduction to part "Technology Ethics", overview of relevant application areas and choice of topic for seminar paper
- Ethical decision-making models in the context of technology ethics
- Application of theoretical models to technical-ethical questions, ethical aspects of digital technologies
- Technology assessment and Quo Vadis technology ethic
- Final presentation and discussion of the seminar paper

Teaching Material / Reading

Part A: Business Ethics

- On-demand Videos in Moodle.
- Crane, Matten et. al. (2016): Business Ethics, Oxford University Press
- Brown, A. (2003): The ethical Process, Prentice Hall
- Velasquez, M. G. (2014). Business Ethics (7. ed.). Pearson.
- Part B: Technology Ethics:
 - Dörr, S. (2021): Corporate Digital Responsibility Managing Corporate Responsibility and Sustainability in the Digital Age, Berlin: Springer Verlag GmbH
 - Kefi, H. (2015): Information Technology Ethics Concepts and Practices in the Digital World, Newcastle: Cambridge Scholars Publishing
 - Siep, Ludwig (2022): Ethics and the limits of technology, Paderborn: Brill mentis

- van de Poel, I.; Royakkers, L. (2011): Ethics, Technology, and Engineering An Introduction, 1st Edition, Chichester, West Sussex: • Wiley-Blackwell.
- Werthner, H., Ghezzi, C., Kramer, J., Nida-Rümelin, J. (2024): Introduction to Digital Humanism A Textbook, 1st Edition, Cham: Springer Nature Switzerland

Internationality (content-related)

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)						
Form of Examination ^{*1)}	Type/Scope incl. Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed				
Module work (ModA)	100 % weighting, proven by seminar paper (written + oral) for freely selectable ethical issues in technology: -written elaboration (approx. 10 pages) -Presentation of the results (30-minute presentation incl. discussion) -Shooting of a 1-minute summary video (reflection on the presentation and the lecture)	The form of examination covers the above mentioned professional and methodological skills.				

Entrepreneurial Project 1: Developing a Digital Solution

Classification	Module ID4.5	k	Kind of Module Mandatory	Number of Credits (ECTS) 5
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Winter Semester, start expected 2024/25	30

 Module Convenor
 Professor / Lecturer

 Prof. Dr. Kris Dalm
 Prof. Dr. Kris Dalm

 Prerequisites*
 Professor / Lecturer

 None
 * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version.

 Usability
 Teaching Methods
 Workload

 The method is marked in state of the method in the former for the method in the respective valid SPO version.
 Contract Norkload

The module is part of the module group Integrative Modules of	Guided project work	Contact time/coaching:	60 h
the Digital Technology and Management Bachelor's degree		Self-study:	90 h
program. The usability in other courses of study must be		Total workload:	150 h
checked in each individual case.			

Learning Outcomes

Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

In this module, students develop digital solutions based on innovations and questions from industrial companies. Students work solutionoriented in order to develop a digital solution. The procedure starts with understanding the issues, planning the project professionally based in project management tools, developing the solution (e.g. in form of a prototype) and presenting it to the "customer". Finally, usability and acceptance engineering will be conducted based on the developed prototype. The projects can also be self-invented.

Professional and Methodological Skills:

- Applied project management (classic and agile)
- User-centered development and design
- (Rapid)-Prototyping
- Acceptance engineering
- Usability engineering

Personal Skills and Competencies:

- Interaction with real industrial questions
- Communication with industrial companies
- Critically reflect upon own ideas
- Solution-driven thinkingPresentation skills

Course Content

- Applied project management (classic and agile)
- User-centered development and design
- (Rapid)-Prototyping
- Acceptance engineering
- Usability engineering
- Presentation

Teaching Material / Reading

- Greene: Entrepreneurship Theory and Practice. 2020. ISBN 978-1137589552.
- Adithan: Rapid Prototyping. 2015. ISBN 978-8126920556.
- Brooke, J. (1996) SUS A quick and dirty usability scale, Usability Evaluation in Industry.
- Weiss, A., Bernhaupt, R., Lankes, M. and Tscheligi, M. (2009) The USUS evaluation framework for human-robot interaction, Proc. of AISB 09. 4. 11-26.

Internationality (content-related)

Students develop digital solutions in cooperation with international companies.

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)

Form of Examination ^{*1)}	Type/Scope incl. Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed
Module work (ModA)	Project Work in Groups, including final presentation and documentation	The group project is used to test the practical learning content and competence profiles, including teamwork and presentation skills.

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Entrepreneurial Project 2: Business Plan for a Digital Solution

Classification	Module ID	Kind of Module			Number of Credits (ECTS)
	4.6	Mandatory			5	
Location	Language	Duration of Module	Frequency of Module Max. Number of Particip			
Weiden	Weiden English One Semester Winter Semester, start expected in winter 2024/25 30					
	Module Convend	or		Professo	or / Lecturer	
Prof. Dr. Dr. Stefan	ie Steinhauser		N.N.			
Prerequisites* None						
	so note the prereq	uisites according to tl	he examinati	on regulations in the	respective valid SPO versi	on.
	Usability			hing Methods	Workload	
the Digital Technolo	ogy and Management ility in other courses		Seminaristic	lecture, team work	Contact time/coaching: Self-study: Total workload:	60 h 90 h 150 h
Learning Outcom	ies					
Learning Outcomes	completion of the P	module, students will	have acquire	d the following profe	essional, methodological a	nd
	nd competencies:			2.	. 2	
		and instruments of entre leterminants of successfu		whin and apply them		
		isiness ideas in a system	•	ship and apply them.		
	•		•	business plan and sele	ct the best possible solution a	Iternative
		tential of the business id				
				ness plan and adjust the	e planning parameters accordi	ingly.
 Present a 	a convincing business	idea for potential invest	ors.			
Course Content						
	nued: business plan,	commercialisation and b	usiness model	for developed digitisation	on solution.	
 Finding id 	deas for an innovativ	e and sustainable busine	ss idea and ev	aluating them with rega	rd to their prospects of succes	SS.
Methods	for the development	of a business plan.				
		basic functions (e.g. plar Isiness plan for a busines			nces, adjusting planning parar	neters)
Developm	•	•		•	and presentation of a business	s idea to
	, Background					
	t and service per benefits and USP	s (Unique Selling Proposi	tion) o Entrepr	eneur team		
	and competition	Conque Sennig Proposi				
	groups, marketing a					
	ss system and organi ble for implementatic					
	unities and risks					
o Financi	al plan and financing					
Teaching Materia	I / Reading					
• Abrams,	R. (2014): Successfu	l Business Plan, 6th editi	on, Redwood (City, CA: Planning Shop.		
• Pinson, L. (2014): Anatomy of a Business Plan, 8th edition, Tustin, CA.: Out of Your Mind & Into The Marketplace.						
		7): The Business Plan, B	Berlin: Springer			
	(content-related)					
		as that have the potentia usiness models are unive			cialization;	
Method of Assess	sment (if applicabl	e, notes on multiple c	hoice as forn	n of examination - AP	90 §9a)	
Form of Examina		e/Scope incl. Weighti			ves/Competencies to be A	ssessed
	Project W	ork in Groups		The group project is u	sed to test the practical learni	na content
Module work (Mod				and competence profil		

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

*2) Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus syste

Research	Project
ICCCC ai cii	1 I OJCCC

DRAFT VERSION – Details to follow

Classification	Module ID	Kind of Module	Number of Credits (ECTS)	
	4.7	Mandatory	5	

Location	Language	Duration of	Frequer	ncy of Module	Max. Number of Participants			
Weiden	English	Module One Semester		, start expected in				
Module Convenor			summer 2025	Professo	or / Lecturer			
Prof. Dr. Dr. Theresa Götz			Depending on					
Prerequisites*	Prerequisites*							
None								
* Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version.								
	Usability	<u> </u>		ng Methods	Workload			
The module is part of the Digital Technolog		<i>Integrative Modules</i> of Bachelor's degree	Project work, s study	self study, lab/field				
program. The usabili	ity in other courses		,					
checked in each indi	vidual case.							
Learning Outcome	es							
Learning Outcomes	mulation of the	nodulo, students will	have acquired	the following profe	ssional, methodological and			
personal skills and		nodule, students will	nave acquireu	the following profe	ssional, methodological and			
Application of specifi	c managerial and/o	r technical knowledge an	nd corresponding	methods in a researc	h context.			
Course Content								
		develop a research proje	ect, a focused, c	oncrete program relate	ed to their area of interest. The project			
should have a causa Since research is nei		consistent process, a set	of exercises will	be assigned througho	out the semester to help facilitate your			
writing of the project	t. The process will h	elp develop and prepare	student topics f	or their bachelor theis	is. Given the research process is rarely,			
if ever, a linear or co Part I: Problem State		n upward, students MUS	T put in full effo	t early in the semeste	r.			
		are expected to select a	in issue of intere	st and prepare a state	ment about the issue selected. It			
consists of turning a	topic of interest int	o a research problem, i.e			s that have the potential for application			
in the field of digital Part II: Conceptual F		nanagement.						
		c model that allows the r	researcher the p	ossibility of answering	their research problem.			
Part III: Research De		hat will halp answer you	r rocorrob quast	ion/hunothooia Idontif	futhe number (what information are			
					fy the purpose (what information are pulation (unit of analysis), sampling			
(how will participant	s be selected), varia	ble type (dummy, nomir	nal, ordinal, ratio	, or scale), and weakn				
Add one paragraph of Part IV:Evaluation	discussing ethical iss	sues that might arise due	e to your researc	h design.				
Part V: Research Pre	esentation							
Tooching Motorial	/ Donding							
Teaching Material Will be provided by								
Internationality (_					
Internationality (C	content-related)							
		s of international relevan						
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)								
Form of Examinat	tion ^{*1)} Typ	e/Scope incl. Weighti	i ng ^{*2)}	Learning Objectiv	ves/Competencies to be Assessed			
Module work (ModA)		Project (Project Work)		5 11 5	sed to test the practical learning content es, including teamwork and presentation			
		blem Statement		skills.	es, including teamwork and presentation			
		onceptual Framework						
	Part III: R Part IV: E	esearch Design						
		search Presentation						

5 Language and Soft Skills

English for Academic Purposes						
Classification	Module ID	ID Kind of Module Numb			er of Credits (ECTS)	
	5.1		Mandatory		5	
Location	Language	Duration of Frequency of Module Max Module			mber of Participants	
Weiden	VeidenEnglishOne SemesterAnnually in Winter Semester60 (30				roup)	
	Module Conven			or / Lecturer		
MSC (UK), MA (US	A) Amy De Vour-Schö	n	Dr. Lisa Mora			
Prerequisites*						
None * Note: Please a	lso note the prerec Usability	uisites according to t	he examination regulations in the Teaching Methods	e respective v	alid SPO version. Workload	
		p Language and Soft	Seminar with exercises (role-play	Contact time		
	Technology Manager	ment bachelor ams of the university is	exercises, partner work, group work)	Self-study: Total worklo	90 h ad: 150 h	
to be examined inc						
Learning Outcomes	nes					
After successful		module, students will	have acquired the following prof	essional, met	hodological and	
personal skills a Professional Ski	nd competencies: lls:					
Students	s learn selected vocat		acquire skills (listening, reading, writii	ng, speaking) u	sed in academic settings.	
		and Self-competence): ively in teams and present group-rela	tod rocults in n	recontations, role plays	
and dial				iteu resuits in p	resentations, role plays	
Course Content						
	Academic Study	ing key factual informatio	חו			
Using Evidence		deas and supporting evid				
Classification	daaa. Augunaantatian					
	leas: Argumentation	ontent and using signpos	ting language			
Comparison a	and Contrast					
Fact and Opir Developing a						
Cause and Ef						
Evaluation						
Teaching Materi	Learning: Summarizin	ng information				
		xford EAP: A course in En	Inglish for Academic Purposes, Upper-I	ntermediate B2	, Oxford University Press	
(2012)						
	Cambridge Academic I Naterials may be provi		ills course for EAP. Upper Intermediat	e, Cambridge U	Iniversity Press (2012)	
	(content-related)					
English literature,	international case stu	dies and examples, interr	national/English video, audio and gue	st lectures. Stu	dents also interact with	
	al) students as require		. <u> </u>			
Method of Asses	sment (if applicabl	le, notes on multiple c	hoice as form of examination - Al	PO §9a)		
Form of Examination ^{*1)}		Type/Scope	incl. Weighting ^{*2)}		Learning Objectives/ Competencies to be Assessed	
ModA	Learning portfolio e	examination			The entire learning	
	Consisting of oral/w	vritten exams during the	semester and one final test.		contents and competence profiles are	
	Oral /Written e		ral/written grades completed during t	he semester	assessed by way of the	
	Written test	0.50 fina	al test lasting 90 minutes		aforementioned	
	Both the final test a	and the orals need to be	passed with a 4.0 (60%) or better.		examination forms.	
	The oral exams are	a prerequisite to the fina	al exam and therefore the orals need			
			 r) before the final exam may be taker period of four semesters. 	۱.		

Technical Eng	glish				
Classification	Module ID	K	(ind of Module	Nu	umber of Credits (ECTS)
	5.2		Mandatory		5
Location	Language	Duration of Module	Frequency of Module	Мах	c. Number of Participants
Weiden	English	One Semester	Annually in Summer Semester	60 (30	per group)
	Module Conven			or / Lect	urer
MSc (UK), MA (USA)) Amy De Vour-Schö	n	MSc (UK), MA (USA) Amy De Vour-S	Schön	
Prerequisites*			I		
None * Note: Please als	o note the prereq	uisites according to t	he examination regulations in the	e respecti	ve valid SPO version.
	Usability		Teaching Methods		Workload
Skills in the Digital T	echnology Manager lity with other progr	o <i>Language and Soft</i> nent bachelor ams of the university is	Seminar with exercises (role-play exercises, partner work, group work)	Contact Self-stu Total w	
Learning Outcomes					
After successful co personal skills and Professional Skills	d competencies:	module, students will	have acquired the following profe	essional,	methodological and
to technic Personal Skills (Se	al writing. ocial Competence acquire the necessa	and Self-competence	acquire productive skills (listening, rea .): ively in teams and present group-rela	0.	
Course Content					
Information Technol Electricity Control Technology Project management Lean/agile productio Health and Safety Global Supply chains RFID Stock Manager Carbon Footprint Re	t ons (PEST-L analysis s ment duction	;)			
Teaching Material	-				
Büchel, W., Carey, C Additional materials			stones. Englisch für technische Berufe	. Klett Ver	lag, 2013
Internationality (content-related)				
interact with other (international) stude	nts as required in course		-	e, guest lectures. Students also
	ment (if applicabl	e, notes on multiple c	hoice as form of examination - AF	PO §9a)	
Form of Examination ^{*1)}		Type/Scope in	cl. Weighting ^{*2)}		Learning Objectives/ Competencies to be Assessed
ModA	Portfolio examina	tion			The entire learning contents
	 Oral ex 	ams n grades during the sem test	e semester and one final test. ester		and competence profiles are assessed by way of the aforementioned examination forms.
	Both the final test	t and the orals need to b	e passed with a 4.0 (60%) or better.		
			inal exam and therefore need to be pa ner) before the final exam may be tak		
	Successful oral gr	ades will remain valid for	r a period of four semesters.		

Intercultura	l Communica	tion		
Classification	Module ID	k	Kind of Module	Number of Credits (ECTS)
Chabonneatton	5.3		Mandatory	5
			·	
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Summer Semester	60
	Module Conven	or		r / Lecturer
Prof. Dr. Julia Heigl			Philipp Schädler	
Prerequisites*				
None				
* Note: Please al		juisites according to t	he examination regulations in the	
This module is part	Usability	C Language and Soft	Teaching Methods Seminar with exercises (role-play	Workload Contact time: 60 h
	Technology Manager		exercises, partner work, group	Self-study: 90 h
		ams of the university is	work)	Total workload: 150 h
to be examined ind	, , , ,	,	,	
Learning Outcom	les			
Learning Outcomes	completion of the	module, students will	have acquired the following profe	ssional methodological and
personal skills an	•	module, students win	have acquired the following profes	ssional, methodological and
P				
Outline the second	ne most important th	neoretical approaches to	intercultural communication.	
			on values, perception, expectations and	l behavior.
•	•		res considering their respective cultural	
	•	•	to overcome obstacles in intercultural	
			intercultural terminology, theory and m	
according		cheodiners by applying	intereditarial terminology, theory and h	lethous and doopt the own benavior
Course Content	<u></u>			
 Introduct 	ion and Basic Knowl	edge: concept of culture,	, cultural identity, perception and interp	pretation, stereotypes and prejudices.
		pretical framework to con		
 Basic con 	nmunication concept	S		
			I teamwork, meetings with team memb	ers from different cultures, ciritcal
incidents		····· , ···	,, <u>.</u>	
	on as a specific form	of communication		
Teaching Materia	I / Reading			
			rganizational behavior. 5th edition, Ma	
			cation. Cambridge Scholars Publishing;	2012. Accessed January 11, 2022.
		<u>true&db=nlebk&AN=524049&</u> //ebook/bmxlYmtfXzUvNDA0O\	<u>site=ehost-live</u> /9fOU41?sid=586dfd4f-52c1-4110-8f2b-3ac9b1b	0869cb@redis&vid=0&format=EB&rid=1
				ures, 2nd edition, London: Kogan Page.
			munication : Building a Global Commun	
			ect=true&db=nlebk&AN=385324&site=ehost-liv	
		w York: McGraw-Hill.	ganizations. Software of the mind: Inte	rnational cooperation and its
			erception, our perception, 6th edition, 6	öttingen: Vandenhoeck & Ruprecht.
			, New York, USA: University of Texas P	
			-	
Internationality ((content-related)			
Given by topic of th	e course			
				0.00-1
Form of Examina	tion ^{*1)}		hoice as form of examination - AP(ncl. Weighting ^{*2)}	
		i ype/Scope i	nci. weighting -/	Learning Objectives/ Competencies to be Assessed
	Toom pro	niect for the proparation	implementation and reflection of an	
		ral business situation / c	implementation and reflection of an ritical incident.	The form of examination covers the
Module Work (Mod			the form of a role play together with a	above mentioned professional and
, ···			s, each team member must take an	methodological skills.
	active role	e). The students represe	nt one culture in the team, which	
1		second one.		
			airing as well as the date of the	
			the third course at the latest. as the course and its critical reflection	
			a report (20-25 pages) on the	
			a copere (10 10 pages) en ene	

Basic Electives

Please note that this catalogue may change each semester. There is no claim to a repeated offer of a particular module. Additional electives may be offered and outlined in the catalogue in due time.

Students are required to complete **four** Basic Electives (Basic Elective 1-4, ID 5.4-5.7 as outlined in the curriculum) **for a total of 20 ECTS**. Different choices are recommended depending on a student's knowledge of the German language. **All Students** are recommended **to consult with the Director of the Study Program to select appropriate modules**. Participation in **any language classes other than German I-IV must be approved by the Head of the Study Program** or the deputy via formal application by **email to <u>i.heigl@oth-aw.de</u>**.

Students with knowledge of the German language of less than level B2.2						
In order to enable sufficient language skills to complete the practical study semester as well as participation in all elective modules, some of which are offered in German, a sufficient knowledge of the German language must be proven by a language certificate corresponding to level B2 according to the Common European Framework of Reference for Languages before entering the third study section. For this purpose, it is highly recommended that you choose the following modules:						
Recommended Basic Electives	Module ID	SWS	ECTS	Rhythm		
German I (B1.1)*	BEG1	4	5	Winter and Summer		
German II (B1.2)*	BEG2	4	5	Winter and Summer		
German III (B2.1)*	BEG3	4	5	Winter and Summer		
German IV (B2.2)*	BEG4	4	5	Winter and Summer		

Students with knowledge of the German language of B2.2						
In order to enable progression to subsequent Master's degree programs, students are recommended to deepen their knowledge of the German language. For this purpose, it is highly recommended that you choose the following modules:						
Recommended Basic Electives	Module ID	SWS	ECTS	Rhythm		
German V (C1.1 Part 1)*	BEG5	4	5	Summer		
German VI (C1.1 Part 2)*	BEG6	4	5	Winter		
Two additional modules of their choice	(see below)	8	10	Winter and Summer		

Students who have acquired their university entrance qualification is Students who acquire their official B2 (better C1.1) certificate outside OTH A		n /	
Basic Electives (4 modules to be chosen, i.e. two each per study section 1&2)	SWS	ECTS	Rhythm
Ukrainian-German Teaching Week	4	5	Winter
Summer School on Lowering Barriers for Minority Groups in Retail	4	5	Summer
International Winter Week on Service Design	4	5	Winter
KREA Spring School on Inspirational Story Telling	4	5	Summer
International Summer School on Sustainability	4	5	Summer
International Retail Innovation Challenge	4	5	Winter
Social Entrepreneurship Project	4	5	Winter
International Short Stay	4	5	Summer/Winter
Digital Business and Information Systems: A Managerial Approach	4	5	Summer/Winter
Future Skill	4	5	Summer/Winter
MINT Skill	4	5	Summer/Winter
Green Office	4	5	Summer/Winter
Foreign Language I**	4	5	Summer/Winter
Foreign Language II**	4	5	Summer/Winter

* The detailed description of the German language courses can be found in the Module Handbook of the Language Center at <u>https://www.oth-aw.de/international/internationales-profil/sprachenzentrum/modulhandbuch/</u>. German V and VI may either be taken as basic elective or as specialization elective, but **only with approval by the Head of the Study Program** or the deputy, and each course can only be credited once. **For all German classes, please register directly with the language center**. <u>https://www.oth-aw.de/international/internationales-</u> profil/sprachenzentrum/anmeldung/

The detailed description of the Foreign language courses can be found in the Module Handbook of the Language Center <u>https://www.oth-aw.de/international/internationales-profil/sprachenzentrum/modulhandbuch/</u>. However, neither German nor English classes may be selected as Foreign Language class. For advanced students, the language modules of the TM study program are also open. However, there is no claim to participation. **After having obtained approval by the Head of Study Program or the deputy, for all language classes, please register directly with the language center. <u>https://www.oth-aw.de/international/internationales-</u> <u>profil/sprachenzentrum/anmeldung/</u>

Classification	Module ID		Kind of Module	Number of	Credits (ECTS)
	BETW		Selective		5
Location	Language	Duration of Module	Frequency of Module	Max. Numbe	er of Participants
Weiden	English	2 weeks, block	Summer Semester	10 - There is neither realization of the mo	er a claim to actual dule nor to participation
	Modul Convence	r		sor / Lecturer	
Prof. Dr. Julia Heigl			Team of lecturers from Ukrainian L	Jniversities	
Prerequisites*					
	e is on beginner's l so note the prerec		he examination regulations in th	e respective valid	SPO version.
noter reduce an	Usability		Teaching Methods		orkload
Digital Technology	and Management Ba		(Online) Lecture; instruction seminars; group work	Total effort: 150	h
		arning outcomes etc. s			
https://www.oth-av			an be found on the program's website <u>e/bachelor/digital-technology-manag</u>		<u>t/</u>
Course Content Details on available	w.de/studium/studien	nangebote/studiengaeng earning outcomes etc. ca	e/bachelor/digital-technology-manag	ement/dillugis-projec	_
Course Content Details on available https://www.oth-av	w.de/studium/studien e modules, content, l w.de/studium/studien	nangebote/studiengaeng earning outcomes etc. ca	e/bachelor/digital-technology-manag	ement/dillugis-projec	_
Course Content Details on available https://www.oth-av Teaching Materia Details on available	w.de/studium/studien e modules, content, l w.de/studium/studien al / Reading e modules, content, l	earning outcomes etc. ca hangebote/studiengaeng earning outcomes etc. ca	an be found on the program's website e/bachelor/digital-technology-manag	ement/dillugis-projec e: ement/dillugis-projec	<u></u>
Course Content Details on available https://www.oth-av Teaching Materia Details on available	w.de/studium/studien e modules, content, l w.de/studium/studien al / Reading e modules, content, l	earning outcomes etc. ca hangebote/studiengaeng earning outcomes etc. ca	e/bachelor/digital-technology-manag an be found on the program's website e/bachelor/digital-technology-manag	ement/dillugis-projec e: ement/dillugis-projec	<u></u>
Course Content Details on available https://www.oth-av Teaching Materia Details on available https://www.oth-av	w.de/studium/studien e modules, content, l w.de/studium/studien al / Reading e modules, content, l w.de/studium/studien	earning outcomes etc. ca hangebote/studiengaeng earning outcomes etc. ca	an be found on the program's website e/bachelor/digital-technology-manag	ement/dillugis-projec e: ement/dillugis-projec	<u></u>
Course Content Details on available https://www.oth-av Teaching Materia Details on available https://www.oth-av Internationality (w.de/studium/studien e modules, content, l w.de/studium/studien al / Reading e modules, content, l w.de/studium/studien	earning outcomes etc. ca hangebote/studiengaeng earning outcomes etc. ca hangebote/studiengaeng	an be found on the program's website e/bachelor/digital-technology-manag	ement/dillugis-projec e: ement/dillugis-projec	<u></u>
Course Content Details on available https://www.oth-av Teaching Materia Details on available https://www.oth-av Internationality (International course	w.de/studium/studien e modules, content, l w.de/studium/studien al / Reading e modules, content, l w.de/studium/studien (content-related) e taught by Ukrainia	earning outcomes etc. ca hangebote/studiengaeng earning outcomes etc. ca hangebote/studiengaeng hangebote/studiengaeng	an be found on the program's website e/bachelor/digital-technology-manag	ement/dillugis-projec	<u>tt/</u>
Course Content Details on available https://www.oth-av Teaching Materia Details on available https://www.oth-av Internationality (International course	w.de/studium/studien e modules, content, h w.de/studium/studien al / Reading e modules, content, h w.de/studium/studien (content-related) e taught by Ukrainian sment (if applicab	earning outcomes etc. ca hangebote/studiengaeng earning outcomes etc. ca hangebote/studiengaeng hangebote/studiengaeng h lecturers e, notes on multiple c	an be found on the program's website e/bachelor/digital-technology-manag an be found on the program's website e/bachelor/digital-technology-manag	ement/dillugis-projec	<u></u>

Summer School on Low	ering Barriers for M	linority Groups in Retail
----------------------	----------------------	---------------------------

	Madula ID		Card of Madad		
Classification	BELB	r	Cind of Modul Elective	e	Number of Credits (ECTS) 5
	DLLD		LIECTIVE		5
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants
Weiden / Geel, BE	English	One Semester	Summer Sen	nester	Approx. 5 There is neither a claim to actual realization of the module nor to participation
	Module Conveno	r			or / Lecturer
Prof. Dr. Julia Heigl			Marc Clerx a	nd international team of	f lecturers guided
Prerequisites*					
		enor; details available			
* Note: Please als		uisites according to t			respective valid SPO version.
This module is part of Digital Technology a Compatibility with ot checked individually.	nd Management Bac her programs of the			hing Methods ernational seminar ork	Workload 150 h
Learning Outcomes	25				
https://thomasmore.	.be/en/agenda/lowe	ring-barriers-minority-gr	oups-retail		
Course Content					
https://thomasmore.	.be/en/agenda/lowe	ring-barriers-minority-gr	oups-retail		
Teaching Material	/ Reading				
Will be provided in d	lue time				
Internationality (content-related)				
school into a multidi	sciplinary and interc	and professionals from a ultural challenge. 2, notes on multiple c			iscipline. This will turn our Summer
100104 01 4556551					~ 3**/
Form of Examinat	tion ^{*1)} Typ	e/Scope incl. Weight	ing ^{*2)}	Learning Objectiv	ves/Competencies to be Assessed
Module Work (ModA	Reflection	ork (team task, 60 %) paper (individual task, 4 e at the end of the Gern		5	ntents and competence profiles are e aforementioned examination forms

International Winter Week on Service Design

Module ID Kind of Module Number of Credit BESD Elective 5 Location Language Duration of Module Frequency of Module Max. Number of F Neiden / International ocation tbd English One Semester Winter Semester Tbd There is neither a claim to of the module nor to partic Module Convenor Professor / Lecturer Prof. Dr. Julia Heigl tbd Formal application to Module Convenor; details available from Module Convenor. tbd Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Workloa Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Workloa Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Workloa Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Workloa Formal application to Module group Basic Electives in the Digital This module is part of the module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with other programs of the university has to checked individually. Field trip, international seminar and group work 150 h	Participants
Weiden / International location tbd English One Semester Winter Semester Tbd There is neither a claim to of the module nor to partice Module Convenor Professor / Lecturer Prof. Dr. Julia Heigl tbd Prerequisites* tbd Formal application to Module Convenor; details available from Module Convenor. The respective valid SPO version. Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Workloa Usability Teaching Methods Workloa This module is part of the module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with Field trip, international seminar and group work 150 h	actual realization
Weiden / International location tbd English One Semester Winter Semester Tbd There is neither a claim to of the module nor to partice Module Convenor Professor / Lecturer Prof. Dr. Julia Heigl tbd Prerequisites* tbd Formal application to Module Convenor; details available from Module Convenor. The respective valid SPO version. Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Workloa Usability Teaching Methods Workloa This module is part of the module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with Field trip, international seminar and group work 150 h	actual realization
International location tbd There is neither a claim to of the module nor to partice Prof. Dr. Julia Heigl Prerequisites* tbd Formal application to Module Convenor; details available from Module Convenor. The respective valid SPO version. Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Workloa Usability Teaching Methods Workloa The module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with Field trip, international seminar and group work 150 h	
Module Convenor Of the module nor to particle Professor / Lecturer Prof. Dr. Julia Heigl tbd Prerequisites* tbd Formal application to Module Convenor; details available from Module Convenor. tbd Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module Convenor; details available from Module Convenor. Teaching Methods Formal application to Module group Basic Electives in the Digital Field trip, international seminar and group work 150 h	
Module Convenor Professor / Lecturer Prof. Dr. Julia Heigl tbd Prerequisites* Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module group Basic Electives in the Digital Field trip, international seminar and group work ISO h	
Prof. Dr. Julia Heigl tbd Prerequisites* Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module Convenor. Formal application to Module Convenor; details available from Module Convenor. Formal application to Module SPO version. Mathematication of the prerequisites according to the examination regulations in the respective valid SPO version. Workloa Usability Teaching Methods Workloa This module is part of the module group Basic Electives in the Digital Field trip, international seminar and group work 150 h	
Prerequisites* Formal application to Module Convenor; details available from Module Convenor. * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workloa This module is part of the module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with Field trip, international seminar and group work 150 h	
Ormal application to Module Convenor; details available from Module Convenor. Tote: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workloa Dis module is part of the module group Basic Electives in the Digital Field trip, international seminar and group work Field trip, international seminar and group work	
Source Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workloa This module is part of the module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with Field trip, international seminar and group work 150 h	
Source Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Usability Teaching Methods Workloa This module is part of the module group Basic Electives in the Digital Fechnology and Management Bachelor's program. Compatibility with Field trip, international seminar and group work 150 h	
UsabilityTeaching MethodsWorkloaThis module is part of the module group Basic Electives in the Digital rechnology and Management Bachelor's program. Compatibility withField trip, international seminar and group work150 h	
This module is part of the module group Basic Electives in the Digital Field trip, international 150 h Technology and Management Bachelor's program. Compatibility with seminar and group work 150 h	
Fechnology and Management Bachelor's program. Compatibility with seminar and group work	d
earning Outcomes	
earning Outcomes	
After successful completion of the module, students will have acquired the following professional, methodologica	l and
personal skills and competencies:	
Details available from course convenor	
Course Content	
Details available from course convenor	
Blended intensive program consisting of online modules and a physical week from 18-22 November 2024 in Malta.	
Feaching Material / Reading	
Communicated to participants after admission	
Internationality (content-related)	
internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi	lisciplinary
Internationality (content-related)	lisciplinary
internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi and intercultural challenge.	disciplinary
Internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi and intercultural challenge. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)	
Internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi and intercultural challenge. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Compet Assessed	encies to be
Internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi and intercultural challenge. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Compet Assessed Module Work (ModA) Project work (team task, 60 %)	encies to be
Internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi Intercultural challenge. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Module Work (ModA) Project work (team task, 60 %) Reflection paper (individual task, 40 %; 15 pages, due at the The entire learning contents and	encies to be ompetence
Internationality (content-related) This winter school is open to students and professionals from all over the world and of any kind of discipline. This will be a multi and intercultural challenge. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Compet Assessed Module Work (ModA) Project work (team task, 60 %)	encies to be ompetence

KREA Spring S	School				
Classification	Module ID	K	(ind of Modu	ıle	Number of Credits (ECTS)
	BEKS		Elective		5
Location	Language	Duration of Module	-	uency of Module	Max. Number of Participants
Weiden / Helsinki	English	One Semester	Summer Se	mester	8 There is neither a claim to actual realization of
	Module Conveno	r		Profess	the module nor to participation or / Lecturer
Prof. Dr. Julia Heigl			Team of int	ernational lecturers	- ,
Prerequisites*					
		enor; details available uisites according to t			respective valid SPO version.
	Usability			ching Methods	Workload
This module is part o Digital Technology ar Compatibility with oth checked individually.	nd Management Bac		Field trip, ir and group v	nternational seminar work	150 h
Learning Outcomes	s				
Learning Outcomes		nodule, students will	have acquir	ed the following profe	essional, methodological and
personal skills and		····		J. J. J. J. J. J. J. J. J. J. J. J. J. J	,
creativity multicultural teamwor sustainable customer sustainable marketing digital storytelling coaching-based autor	experience J				
Course Content					
Creativity: Krea Sprin university experts fro into a creative wizard Creative Agency Krea Customer Experience analysis, you will scrij experience from an ir Sustainable Marketing our storytelling projec consumption. Digital Storytelling: A exciting and creative multicultural team of Coaching-based Auto	m all over the work in digital storytellin in English! : You will work for a pt and produce a cu spirational angle. O g: We will make use cts. You will learn to t Krea Spring Schoo learning environme students. Watch a nomous Learning: I ation, and peer-to-	d come together for co- ong that fosters sustainab a client organization and ustomer-centric story tha Dur international team of e of our strategic networ o produce attractive stor ol, you get to develop ha nt. You will craft an insp Krea Spring School anim Learning in Krea Spring S	creation works ble living and o d learn how to at breaths new f coaches will rk of leading r ry content tha ands-on exper birational cust hated video. School is base	shops in Helsinki. We giv consumption. Read storie o analyze sustainable cus w life into the customer p help you to get the mos narketing agencies in Fir t inspires international a ience in sustainable mar omer experience story fo	rs, branding professionals and re you the tools you need to blossom es about Krea Spring School and tomer experience. Based on your perspective and highlights customer it out of your creative potential. nland to get professional support for udiences to engage in sustainable keting and digital storytelling in an or a client company as part of a tion and information retrieval, fearless t along the way.
Internationality (c	ontent-related)				
Multicultural Teamwo universities abroad. Y each other at various The course takes plac	rk: You will become 'ou will be sharing s stages of the creat ce in Helsinki from :	skills and knowledge in t ive process. 13-17 May 2024.	eams, solving	ı sustainable marketing c	rom Haaga-Helia and our partner challenges together, and supporting
method of Assessm	ient (if applicable	e, notes on multiple c	noice as for	m of examination - AF	-U gya)
Form of Examinati	on ^{*1)} Type	e/Scope incl. Weighti	ng ^{*2)}	Learning Objectiv	es/Competencies to be Assessed
Module Work (ModA)	Reflection	rk (team task, 60 %) paper (individual task, 4 e at the end of the Germ			ntents and competence profiles are e aforementioned examination forms

Classification	Module ID BESU	ŀ	Kind of Module Elective	Number of Credits (ECTS) 5
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Summer / Winter	Approx. 10 from study program DTM, approx 30 in total There is neither a claim to actual realization the module nor to participation
	Module Conven	or		sor / Lecturer
Prof. Dr. Julia Heigl			Prof. Dr. Julia Heigl and other	
Prerequisites*				
Online application	n incl. a motivatio	n letter, details availa	able from module convenor	
* Note: Please als	so note the prerec Usability	uisites according to t	he examination regulations in the Teaching Methods	e respective valid SPO version. Workload
This module is part		p Basic Electives in the	Lectures, guided intercultural team	
Digital Technolog	gy and Management	Bachelor's program.	work	Self-study: 90h
Compatibility wit	h other programs of checked individual	the university has to		Total workload: 150h
		ıy.		
earning Outcom	es			
earning Outcomes After successful o	completion of the	module, students will	have acquired the following prof	essional, methodological and
earning Outcomes After successful of personal skills an This 'International S ompanies, 2 profes Ve will come togeth profiting from virtual thinking outside the Course Content	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input so e box', and looking f	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results.	olves 30 international students, 2 and a multitude of advisors and helpers orking on real-life projects, and
earning Outcomes After successful of personal skills an This 'International S companies, 2 profes We will come togeth profiting from virtua thinking outside the Course Content Acquisition and app intercultural compe input sessions: virtu Project sessions wit	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input si e box', and looking f lication of specific ki tence and working in ual (to be watched in h internal and extern	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability n teams	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ	olves 30 international students, 2 and a multitude of advisors and helpers. orking on real-life projects, and
earning Outcomes After successful of personal skills an This 'International S companies, 2 profes We will come togeth profiting from virtual thinking outside the Course Content Acquisition and app ntercultural competing nput sessions: virtual project sessions with Social activities (trip	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input se box', and looking f lication of specific ki tence and working i ual (to be watched in h internal and exter o to Regensburg, cor	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability n teams n preparation of or during nal coaches	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ	olves 30 international students, 2 and a multitude of advisors and helpers. orking on real-life projects, and
earning Outcomes After successful of personal skills an This 'International S companies, 2 profes We will come togeth profiting from virtuat thinking outside the Course Content Acquisition and app intercultural compe input sessions: virtu Project sessions with Gocial activities (trip Feaching Materia	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input se box', and looking f lication of specific ki tence and working i ual (to be watched in h internal and exter o to Regensburg, cor	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability n teams n preparation of or during nal coaches	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ	olves 30 international students, 2 and a multitude of advisors and helpers. orking on real-life projects, and
After successful of personal skills an arring Outcomes and Skills an arrivational skills an arrivation of the second skills an arrivation of the second skills and arrivation of the second skills and arrivation of the second skills are arrivation and appendication and appendication and appendication second skills arrivation and appendication and appendication second skills arrivation arrivation and appendication and appendication and appendication and appendication and appendication arrivation arrivation and appendication arrivation a	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input se box', and looking f lication of specific ki tence and working i ual (to be watched in h internal and exter o to Regensburg, cor	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability n teams n preparation of or during nal coaches	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ	olves 30 international students, 2 and a multitude of advisors and helpers. orking on real-life projects, and
personal skills an This 'International S companies, 2 profes We will come toget profiting from virtua thinking outside the Course Content Acquisition and app Intercultural competing Input sessions: virtu Project sessions with Social activities (trip Teaching Materia Will be provided Internationality (completion of the d competencies: Summer School on S sors, several expert her to learn, experie al and in situ input se e box', and looking f lication of specific ki tence and working i ual (to be watched in h internal and extern o to Regensburg, cor I / Reading	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability in teams in preparation of or during nal coaches mpany visit(s), treasure k	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ	olves 30 international students, 2 and a multitude of advisors and helpers. orking on real-life projects, and
earning Outcomes After successful of personal skills an This 'International S companies, 2 profes We will come togeth profiling from virtual thinking outside the Course Content Acquisition and app Intercultural compe intercultural compe Social activities (trip Feaching Materia Will be provided Internationality (Multicultural particip	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input si e box', and looking f lication of specific ki tence and working i ual (to be watched in h internal and exter to to Regensburg, cor I / Reading	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability in teams in preparation of or during nal coaches mpany visit(s), treasure k many visit(s), treasure k	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ	olves 30 international students, 2 ind a multitude of advisors and helpers. orking on real-life projects, and I-driven solutions. We will encourage
earning Outcomes After successful of personal skills an This 'International S companies, 2 profes We will come togeth profiling from virtual thinking outside the Course Content Acquisition and app Intercultural compe intercultural compe Social activities (trip Feaching Materia Will be provided Internationality (Multicultural particip	completion of the d competencies: Summer School on S ssors, several expert her to learn, experie al and in situ input si e box', and looking f lication of specific ki tence and working i ual (to be watched in h internal and exter to to Regensburg, cor I / Reading content-related) bants, internationally	ustainability' has an equa s on sustainability, and k nce, share, and impleme essions, students learn to or realistic, application-o nowledge on sustainability in teams in preparation of or during nal coaches mpany visit(s), treasure k many visit(s), treasure k	al focus on theory and practice. It inv key skills for project, and teamwork, a ent sustainability concepts. Besides we o cooperate in teams, and create goa riented results. ty and related concepts g the project work) and in situ hunt)	olves 30 international students, 2 ind a multitude of advisors and helpers orking on real-life projects, and I-driven solutions. We will encourage

Classification				
	BERC	K	ind of Module Elective	Number of Credits (ECTS)
	DEIXO			
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Winter	Approx. 5 from study program DTM, approx. 30 in total There is neither a claim to actual realization of the module nor to participation
	Module Convent	or		or / Lecturer
Prof. Dr. Julia Heigl			Marc Clerx and others	
Prerequisites*				
Formal application	n to Module Conv	enor; details available	from Module Convenor.	
* Note: Please also		uisites according to the	ne examination regulations in the	
This was doing in a start	Usability	- Proje Flooting - in th	Teaching Methods	Workload
Digital Technolog	y and Management	p <i>Basic Electives</i> in the Bachelor's program. the university has to y.	Lectures, guided intercultural team work	Contact time: 60h Self-study: 90h Total workload: 150h
lingua franca, multi-s Course Content	ne participants deve stakeholder co-crea	tion, design thinking, and	aborative autonomous learning, multic 1 pitching.	ultural teamwork using English as a
consistes of an online location. The project	e module and an in will be to create ar arried out in multicu	-person intensive week o n omni-channel concept t	rse offering a transnational learning, to f 3 ects held in the beginning of March hat has the potential to transform the on project teams of 4-5 students.	
consistes of an online location. The project The project will be ca Teaching Material	e module and an in will be to create and arried out in multice / Reading	-person intensive week o n omni-channel concept t	f 3 ects held in the beginning of March hat has the potential to transform the	2025 in an international European
consistes of an online location. The project The project will be ca Teaching Material Will be provided	e module and an in will be to create an arried out in multice / Reading	-person intensive week on omni-channel concept to altural virtual and in-person intensive week on omni-channel concept to alturate the second	f 3 ects held in the beginning of March hat has the potential to transform the	2025 in an international European
consistes of an online location. The project The project will be ca Teaching Material Will be provided Internationality (c Multicultural participa	e module and an in will be to create an arried out in multice / Reading	-person intensive week on omni-channel concept to altural virtual and in-person intensive week on omni-channel concept to altural virtual and in-person intensive week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on one of alternative week on omni-channel concept to alternative week on one of alternative week on one of alternative week on one one of alternative week on oncept to alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one week one o	f 3 ects held in the beginning of March hat has the potential to transform the	n 2025 in an international European commissioning company into the future.
consistes of an online location. The project The project will be ca Teaching Material Will be provided Internationality (c Multicultural participa	e module and an in will be to create ar arried out in multice / Reading content-related) ants, internationally nent (if applicabl	-person intensive week on omni-channel concept to altural virtual and in-person intensive week on omni-channel concept to altural virtual and in-person intensive week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on omni-channel concept to alternative week on one of alternative week on omni-channel concept to alternative week on one of alternative week on one of alternative week on one one of alternative week on oncept to alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week on one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one of alternative week one week one o	f 3 ects held in the beginning of March hat has the potential to transform the on project teams of 4-5 students.	n 2025 in an international European commissioning company into the future.

- $^{\ast1)}$ Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden $^{\ast2)}$ Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Classification	BESE	К	ind of Module Elective		Number of Credits (ECTS) 5			
Location	Language	Duration of Module	Frequency of	Module	Max. Number of Participants			
Weiden	English	One Semester	Winter		Approx. 5 from study program DTM, approx. 3 in total There is neither a claim to actual realization of the module nor to participation			
	Module Conven	or			or / Lecturer			
Prof. Dr. Julia Heigl			Marc Clerx and other	S				
Prerequisites*								
Formal application	n to Module Conv	enor; details available	from Module Conve	nor.				
* Note: Please als	o note the prerec	uisites according to th	ne examination requ	lations in the	respective valid SPO version.			
	Usability		Teaching Me	ethods	Workload			
Digital Technolog	y and Management	p <i>Basic Electives</i> in the Bachelor's program. the university has to ly.	Lectures, guided inte work	rcultural team	Total workload: 150h			
Learning Outcome	es							
Learning Outcomes		and de la la la la la la la la la la la la la		U				
After successful c personal skills and		module, students will	nave acquired the fo	bliowing profe	essional, methodological and			
	a competencies.							
		elop competencies in colla tion, design thinking, and		learning, multic	ultural teamwork using English as a			
Course Content								
from End of Octob	er 2024 in Antwer ntrepreneurial chall	p. enge in a multidisciplinar			person intensive week of 3 ects held I be carried out in multicultural virtual			
Teaching Material	/ Reading							
Will be provided								
Internationality (content-related)							
Multicultural particip	ants, internationally	relevant topics						
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)								
Form of Examinat	tion ^{*1)} Tyj	pe/Scope incl. Weighti	ng ^{*2)} Lea	rning Objectiv	ves/Competencies to be Assessed			
Module work (ModA)	Project work (team task Reflection paper (individ %; 15 pages, due at the German lecture period)	team task, 60 %) The entire learning contents and competence profiles are assessed by way of the aforementioned examination form. due at the end of the					

International St	nort Stay							
Classification	Module ID	ĸ	(ind of Modu	e	Number of Credits (ECTS)			
	BEST		Elective		5			
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants			
tbd I	English	One Semester	Depending o	n availablility	30 <i>There is neither a claim to actual realization of</i> <i>the module nor to participation</i>			
	Iodule Convenc	r			or / Lecturer			
Prof. Dr. Julia Heigl			respective p	rofessor hosting the inte	ensive week			
Prerequisites*			<u> </u>					
learning objectives and module convenor.	therefore suitabl		gram must b e	e coordinated in adva	f program is benefiting the overall nce / prior to participation with the			
· Note: Flease also no	Usability			hing Methods	Workload			
Digital Technology a Compatibility with o	the module group and Management	b <i>Basic Electives</i> in the Bachelor's program. the university has to		n the respective	150h			
		/	l		1			
Learning Outcomes								
personal skills and o	competencies:		-		essional, methodological and			
Acquisition and applica International team wor Intercultural competen	rk .	owledge relevant to the	fields of digita	l technology and/or mai	nagement			
Course Content								
Depending on the type	e of intensive wee	k						
	Edutus University	(please contact module c in Budapest from 7-12 marketing						
Teaching Material /	Reading							
Will be provided	-							
Internationality (co	ntent-related)							
Multicultural participan	ts, internationally	relevant topics						
Method of Assessme	ent (if applicable	e, notes on multiple c	hoice as form	n of examination - AP	90 §9a)			
Form of Examinatio	n ^{*1)} Typ	pe/Scope incl. Weighting ^{*2)}		Learning Objection	ves/Competencies to be Assessed			
Module work (ModA)	60% proje reflection	of 3 ECTS PROGRAM: ject work and presentation, 40% n paper (15 pages) to be handed in at of lecture period to j.heigl@oth-aw.de						
	In case of and prese	5 ECTS PROGRAM: proj ntation	iect work					
		II be provided by the respondent module convenor	pective					

Digital Busines	s and Inform	ation Systems: A	Manageria	l Approach				
Classification	Module ID	l k	(ind of Modu	e	Number of Credits (ECTS)			
	BEDB		Elective		5			
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants			
Online (vhb)	English	One Semester	Each semest	er	30 There is neither a claim to actual realization of the module nor to participation			
	Module Conven	br			sor / Lecturer			
Prof. Dr. Julia Heigl			Prof. Dr. Ma	rkus Westner				
Prerequisites*								
https://kurse.vhb.or	g/VHBPORTAL/kur	cipation is entirely up sprogramm/kursprogram	nm.jsp?kDetai	=true&COURSEID=17				
* Note: Please also		uisites according to t			e respective valid SPO version.			
This module is part of	Usability of the module grou	p <i>Basic Electives</i> in the	Online (vhb)	hing Methods	Workload 150h			
Digital Technology Compatibility with	/ and Management	Bachelor's program. the university has to			15011			
Learning Outcome	s							
information systems company and its bus	from a managerial iness model. A mar	approach. Students will agerial perspective is ch	learn conceptu osen which is	al principles and praction of interdisciplinary natu	students essential aspects of business cal guidelines on how to "digitize" a ire and includes relevant aspects of other management in addition to business			
Course structure A. INTRODUCTION 1.Introduction to digi 2.Opportunity analys 3.Digital business infi 4.Key issues in the d B. STRATEGY AND A 5.Digital business str 6.Supply chain and d 7.Digital marketing 8.Customer relations C. IMPLEMENTATION 9.Digital product and 10.Digital transforma Teaching Material	is for digital busine rastructure manage igital environment PPLICATION ategy emand hip management service design tion management							
Will be provided	,							
Internationality (c	Internationality (content-related)							
internationally relevant topics								
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)								
Form of Examinat		e/Scope incl. Weight			ives/Competencies to be Assessed			
Written exam	Details wi lecturer	ll be provided by the res	pective		ontents and competence profiles are he aforementioned examination form.			

Future Skill							
Classification	Module ID	k	(ind of Modu	e	Number of Credits (ECTS)		
	BESP		Selective		5		
Location	Language	Duration of Module	-	ency of Module	Max. Number of Participants		
tbd	English	One Semester	Depending o	n availablility	30 There is neither a claim to actual realization of the module nor to participation		
	Module Conven	or			ssor / Lecturer		
Prof. Dr. Julia Heigl			respective p	rofessor offering the s	soft skill module		
Prerequisites*							
Students are recomm Also, participation in Whether a specific program must be	nended to check th modules of other s course of progra coordinated in ac	tudy programs at OTH m am is benefiting the o lvance with the modu	b (<u>https://kurs</u> hay be possible verall learnin le convenor. he examinati	e.vhb.org/VHBPOR- T g objectives and th on regulations in th	AL/kursprogramm/kursprogramm.jsp). herefore suitable for the DTM study he respective valid SPO version.		
	Usability			hing Methods	Workload		
Digital Technology	y and Management	p <i>Basic Electives</i> in the Bachelor's program. the university has to ly.	Depending o program	n the respective	150h		
		•					
personal skills and	ompletion of the I competencies:	module, students will re skills and competenci	-		ofessional, methodological and		
Course Content							
Depending on the ty	pe of class						
Teaching Material	/ Reading						
Will be provided							
Internationality (c	Internationality (content-related)						
internationally releva	int topics						
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)							
Form of Examinat	ion ^{*1)} Tyj	oe/Scope incl. Weight	ing ^{*2)}	Learning Objec	tives/Competencies to be Assessed		
Depending on the co chosen	lecturer	ll be provided by the res	respective The entire learning contents and competence profi assessed by way of the aforementioned examination				

MINT Skill									
Classification	Module ID	H	Kind of Modu	e	Number of Credits (ECTS)				
	BEMS	Elective 5							
Location	Language	Duration of Module	Frequ	ency of Module	Max. Number of Participants				
tbd	English	One Semester	Depending o	n availablility	30 There is neither a claim to actual realization of the module nor to participation				
	Module Convend	or			or / Lecturer				
Prof. Dr. Julia Heigl			respective p	rofessor offering the sof	t skill module				
Prerequisites*									
Students are recomm Also, participation in Whether a specific program must be c	nended to check the modules of other s course of progra coordinated in ad	tudy programs at OTH n am is benefiting the o lvance with the modu	b (<u>https://kurs</u> nay be possible verall learnin le convenor. he examinati	e.vhb.org/VHBPOR- TAL g objectives and the on regulations in the	/kursprogramm/kursprogramm.jsp). refore suitable for the DTM study respective valid SPO version.				
This modulo is part of	Usability	p <i>Basic Electives</i> in the		hing Methods on the respective	Workload 150h				
Digital Technology Compatibility with	and Management	Bachelor's program. the university has to	program	in the respective	1501				
Learning Outcomes									
After successful co personal skills and		module, students will	nave acquire	d the following profe	essional, methodological and				
Acquisition or deeper	ning of specific MIN	T skills and competencie	es not covered	by a dedicated module					
Course Content									
Depending on the typ	be of class								
Teaching Material	/ Reading								
Will be provided									
Internationality (c	Internationality (content-related)								
internationally releva	nt topics								
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)									
Form of Examinati		pe/Scope incl. Weight			ves/Competencies to be Assessed				
Depending on the con chosen	lecturer	ll be provided by the res	pective						

Green Office

Classification	Module ID	Kind of Module	Number of Credits (ECTS)
	BEGO	Elective	5

Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants	
Partly face-to-face (optionally at Am- berg-Weiden), partly online	English	One Semester	Every semester	10 There is neither a claim to actual realization of the module nor to participation	
Module Convenor			Professor / Lecturer		
Prof. Dr. Julia Heigl			Wolfgang Voigt / Dr. Alexander Herzner		
Prerequisites*					
			plication with module convenor ar he examination regulations in the		
	Usability		Teaching Methods	Workload	
This module is part of the module group <i>Basic Electives</i> in the Digital Technology and Management Bachelor's program. Compatibility with other programs of the university has to checked individually.			Seminar-based project teaching with self-study units	Contact time: 40 h Self-study/follow-up: 80 h Exam preparation: 30 h Total time: 150 h	

Learning Outcomes

Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

Expertise:

- The students know and understand the task and function of a Green Office and are aware of the importance and necessity of
 sustainability measures at the university.
- They will learn and be able to apply knowledge of idea generation and agile project management.
- The students know and understand the task and function of a Green Office and are aware of the importance and necessity of
 sustainability measures at the university.

Methodological competence:

- Students use methods to generate ideas (including design thinking).
- They apply agile project management methods.

Personal competence (social competence and self-competence):

- Development and promotion of sustainable thinking and implementation of independently identified measures: Students deal with the topic of sustainability and reflect on their interaction with the environment.
- In addition, they network with sustainability departments at the university such as the climate protection manager or the Institute for Sustainability and Ethics.
- In small interdisciplinary groups, they identify approaches for implementable sustainability measures at the university.
- In this context, they familiarize themselves with agile project management approaches and discuss team processes in a constructive and solution-oriented manner.
- Students use presentation techniques

Course Content

	Type/Scope incl. Weighting *2)	Learning Objectives/Competencies to be Assessed				
Method of Assessment (if	applicable, notes on multiple choice a	s form of examination - APO §9a)				
5	/	naterials are available in English and in various languages.				
Internationality (content	-related)					
	s.erasmus.site/de/open-online-course/ and studies for the topics to be worked on					
	nanagement, 9. Aufl., Haufe Group, Münche	en.				
Teaching Material / Read	ing					
Idea generation Project management Identification and developing of a sustainable activity at OTH Amberg-Weiden						
Introduction to sustainability						

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

Foreign Langua	age I								
Classification	Module ID	K	(ind of Modu	le	Number of Credits (ECTS)				
	BEL1		Elective		5				
Location	Language	Duration of Module	-	ency of Module	Max. Number of Participants				
tbd	English	One Semester	Depending o	on availablility	There is neither a claim to actual realization of the module nor to participation				
	Module Conven	or			or / Lecturer				
Prof. Dr. Julia Heigl			respective le	cturer offering the lang	uage course				
Prerequisites*									
catalogue of the la However, there is r program, a pprova After that, please profil/sprachenzent	nguage center. I no claim to partic I of the Head c e register direc trum/anmeldung	For advanced students cipation. In order to er of Study Program or ctly with the langua	s, the languages, the languages sure proper the deputy ge center.	ge modules of the TM fit with pre-knowledg necessary. https://www.oth-aw.c	is, students may choose from the study program are also open. ge and educational goals of the le/international/internationales- respective valid SPO version.				
Hotel Fielde dise	Usability			hing Methods	Workload				
Digital Technology Compatibility with	and Management	p <i>Basic Electives</i> in the Bachelor's program. the university has to ly.	Depending o program	on the respective	150h				
Learning Outcomes	S								
personal skills and	competencies:	module, students will ternationales-profil/sprac	-		essional, methodological and				
Course Content									
https://www.oth-aw.	de/international/in	ternationales-profil/sprac	<u>:henzentrum/m</u>	odulhandbuch/.					
Teaching Material	/ Reading								
https://www.oth-aw.de/international/internationales-profil/sprachenzentrum/modulhandbuch/.									
Internationality (content-related)									
https://www.oth-aw.de/international/internationales-profil/sprachenzentrum/modulhandbuch/.									
Method of Assessm	nent (if applicab	e, notes on multiple c	hoice as forn	n of examination - AP	90 §9a)				
Form of Examinati	ion ^{*1)} Ty	pe/Scope incl. Weight	ing ^{*2)}	Learning Objectiv	ves/Competencies to be Assessed				
Depending on the co chosen	lecturer	ill be provided by the res	pective	5	ntents and competence profiles are e aforementioned examination form.				

Foreign Langua	age II						
Classification	Module ID	ĸ	(ind of Modu	le	Number of Credits (ECTS)		
	BEL2		Elective		5		
Location	Language	Duration of Module	-	ency of Module	Max. Number of Participants		
tbd	English	One Semester	Depending of	on availablility	There is neither a claim to actual realization of the module nor to participation		
	Module Convend	r			sor / Lecturer		
Prof. Dr. Julia Heigl			respective le	ecturer offering the lang	juage course		
Prerequisites*							
catalogue of the la However, there is program, a pprova After that, pleas profil/sprachenzen	nguage center. F no claim to partic al of the Head o e register direc trum/anmeldung/	or advanced students ipation. In order to er f Study Program or tly with the langua	s, the languages, the languages sure proper the deputy ge center.	ye modules of the TN fit with pre-knowled r necessary. https://www.oth-aw.	his, students may choose from the 4 study program are also open. ge and educational goals of the de/international/internationales- e respective valid SPO version.		
Note: Please also	Usability	disites according to th		hing Methods	Workload		
Digital Technology	y and Management	b <i>Basic Electives</i> in the Bachelor's program. the university has to y.		on the respective	150h		
Learning Outcome	S						
After successful co personal skills and	competencies:	nodule, students will ernationales-profil/sprac	-		essional, methodological and		
Course Content							
https://www.oth-aw.	de/international/int	ernationales-profil/sprac	<u>:henzentrum/m</u>	odulhandbuch/.			
Teaching Material	/ Reading						
https://www.oth-aw.	de/international/int	ernationales-profil/sprac	henzentrum/m	iodulhandbuch/.			
Internationality (content-related)							
		ernationales-profil/sprac					
Method of Assessn	nent (if applicable	e, notes on multiple c	noice as forn	n of examination - A	РО §9а)		
Form of Examinat	ion ^{*1)} Typ	e/Scope incl. Weight	ing ^{*2)}	Learning Object	ives/Competencies to be Assessed		
Depending on the co chosen	lecturer	ll be provided by the res	pective		ontents and competence profiles are he aforementioned examination form.		

Specialization Electives

- Please note that this catalogue may change each semester. There is no claim to a repeated offer of a particular module. Additional electives may be offered and outlined in the catalogue in due time. -

Students are required to complete **four Specialization Electives** (Specialization Elective 1-4, **ID 6.1-6.4** as outlined in the curriculum), **5 ECTS each, for a total of 20 ECTS**. They may choose any from the following modules with the mentioned limitations and prerequisites. However, in order to ensure proper know-how and specialization in the selected topic, we suggest selecting possibly **all four modules from only one topical field**.

Topical Field	Specialization Electives	ID	Other programs	SWS	ECTS	Rhythm	Prerequisites* / Comments
Data Science	Data Science for Engineers (Introduction to Methods and Tools)	SED1		4	5	Winter	Successful completion of Modules 1.1-1.5
	Applied Image Processing	SED2		4	5	Summer	Successful completion of Modules 1.1-1.5 and SED1
	Industrial Applications of Data Science	SED3		4	5	Summer	Successful completion of Modules 1.1-1.5 and SED1
	The R and RStudio Environment	SED4		4	5	Summer and Winter (vhb)	Coordination with head of the study program in advance
Industrial Engineering	ERP Systems and Digital Transformation	SEI2		4	5	Summer and Winter (vhb)	Coordination with head of the study program in advance
and Industry 4.0	Industry X.0 and Supply Chain Management	SEI3		4	5	Summer and Winter (vhb)	Coordination with head of the study program in advance
	Robotik (Robotics)	SEI4	WI T19 WI-D WI Q18 WI-D	4	5	Winter	German or English, to be decided by lecturer
	SAP Anwendungsentwicklung (SAP application development)	SEI5		4	5	Winter	German B2; taught in German
	Smart Factory	SEI6		4	5	Winter	German or English, to be decided by lecturer
Digital Healthcare	Gesundheitsökonomie und Krankenhausmanagement I (Health Economics and Hospital Management I)	SEH1	DHM H4	4	5	Winter	in German
	Gesundheitsökonomie und Krankenhausmanagement II (Health Economics and Hospital Management I)	SEH2	DHM H5	4	5	Summer	In German
	Gesundheitssysteme im internationalen Vergleich (Health care systems in international comparison)	SEH3	DHM VH18	4	5	Winter	in German
	E-Health/M-Health	SEH4	DHM D1	4	5	Winter	in German
Management	Applications of Blockchain in Business	SEM1		4	5	Summer and Winter (vhb)	Coordination with head of the study program in advance
	Business Model Innovation	SEM2	DHM VD11+VM12 WI-W10 WI-P+D TM-V2 TM-P	4	5	Winter	
	Digital Marketing and eCommerce	SEM6		4	5	Winter	Successful completion of Module 3.4
	International Marketing	SEM3		4	5	Summer and Winter (vhb)	Successful completion of Module 3.4; Coordination with head of the study program in advance
	People Analytics: Data Science for Human Resources Management	SEM4		4	5	Summer and Winter (vhb)	Successful completion of Modules 1.1-1.5; Coordination with head of the study program in advance
	Profiting from Ideas and Inventions: An Introduction to Intellectual Property Rights	SEM5		4	5	Summer and Winter (vhb)	Coordination with head of the study program in advance
Languages	German V (C1.1 Part 1)**	BEG5		4	5	Summer	German B2; module has not been chosen as Basic Elective
	German VI (C1.1 Part 2)**	BEG6		4	5	Winter	German B2; module has not been chosen as Basic Elective
all fields	Practical Project	SEPP		4	5	Summer and Winter	Coordination with the head of the study program in advance

*Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version.

** The detailed description of the German courses (as well as the voluntary options for obtaining UNIcert® certificates) can be found in the Module Handbook of the Language Center at https://www.oth-aw.de/international/internationales-

profil/sprachenzentrum/modulhandbuch/.

Data Science for Engineers (Introduction to Methods and Tools)							
Classification	Module ID	K	ind of Module	Number of Credits (ECTS)			
	SED1		Elective	5			
Looption		Duration of		May Number of Destising to			
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants			
Weiden E	inglish	One Semester	Winter	30 There is neither a claim to actual realization of the module nor to participation			
Prof. Dr. Thomas Geige	lodule Convend	Dr	Pro Prof. Dr. Thomas Geigenfeind	ofessor / Lecturer			
			FIOL DI. Monas Geigenreina				
Prerequisites*							
* Note: Please also r	note the prereq	uisites according to th	he examination regulations i	n the respective valid SPO version.			
	Usability		Teaching Methods	Workload			
<i>Electives</i> in the Digital program. Compatibility	Technology and	roup <i>Specialization</i> Management Bachelor's Irams of the university Iually.	Seminaristic lecture	150h (60h contact time, 90h self- study)			
Learning Outcomes							
personal skills and c	ompetencies:	the data science and ma		professional, methodological and			
 Students can 	assess what pro	blems can be tackled wit	h data science and machine lear				
			and visualizing datasets from va lines with the most common Pytl				
 Students lear 	n to find their ov		thods for solving problems, discu	uss and overcome issues, and present results			
Course Content							
 Introduction Selection of t cluster analys Introduction 	to data analysis raditional machir sis, to neural networ		alization,) pective algorithms, including but	not limited to linear regression, classification,			
Teaching Material /	Reading						
 Python for Da Machine Lear Data Science 	ata Analysis (3 rd rning with PyToro from Scratch (2 ^r	edition), Wes McKinney, ch and Scikit-Learn, Seba ^d edition), Joel Grus, O'R n Cookbook, Chris Albon,	stian Raschka, Packt, 2022 Reilly 2019				
Internationality (cor	tent-related)						
internationally relevant	topics						
Method of Assessme	nt (if applicabl	e, notes on multiple c	hoice as form of examinatior	n - APO §9a)			
Form of Examination		Type/Scope incl.		Learning Objectives/Competencies to be Assessed			
Module Work (ModA)	Multiple e	qually weighted program	nming case studies	The entire learning contents and competence profiles are assessed by way of the aforementioned examination form.			

Applied Image	Processing			
Classification	Module ID	K	(ind of Module	Number of Credits (ECTS)
	SED2		Elective	5
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
Weiden	English	One Semester	Summer	30 There is neither a claim to actual realization of the module nor to participation
	Module Conven	or	Pro	ofessor / Lecturer
Prof. Dr. Thomas Ge	igenfeind		Prof. Dr. Thomas Geigenfeind	
Prerequisites*				
* Note: Please als	o note the prerec	uisites according to t	he examination regulations i	in the respective valid SPO version.
	Usability		Teaching Methods	Workload
<i>Electives</i> in the Digit program. Compatib	al Technology and	group <i>Specialization</i> Management Bachelor's grams of the university dually.	Seminaristic lecture	150h (60h contact time, 90h self- study)
Learning Outcome	S			
Learning Outcomes				
personal skills and	competencies:			professional, methodological and
 Students k Students c Students k 	know the basics of i can implement a co earn to find their or	mage processing with Py llection of fundamental co	omputer vision tasks with the me thods for solving problems, disc	
Course Content				
 Image trai Image res Introduction Classification Object det Selected res Teaching Material Hands-On Practical Material 	nsformations toration/enhancem on to Convolutional ion of image conter section eal-world applicatio / Reading Image Processing lachine Learning ar	ent (spatial filtering, deno Neural Networks and the its ins with Python, Dey Sandipa	eir applications for image related an Dey, Packt, 2018 nanshu Singh, Apress, 2019	
Internationality (content-related)			
internationally releva	ant topics			
Method of Assess	ment (if applicab	le, notes on multiple c	hoice as form of examination	n - APO §9a)
Form of Examinat	ion ^{*1)}	Type/Scope incl.	Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed
Module Work (ModA)	Multiple	equally weighted program	nming case studies	The entire learning contents and competence profiles are assessed by way of the aforementioned examination form.

Industria	Applications	of Data	Science
-----------	--------------	---------	---------

Classification	Module ID	Kind of Module	Number of Credits (ECTS)
	SED3	Elective	5

Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants	
Weiden	English	One Semester	Summer	30 There is neither a claim to actual realization of the module nor to participation	
	Module Conveno	r	Professo	or / Lecturer	
Prof. Dr. Thomas Geigenfeind		Prof. Dr. Thomas Geigenfeind			
Prerequisites*					
* Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version.					

Usability	Teaching Methods	Workload
This module is part of the module group Specialization	Seminaristic lecture	150h (60h contact time, 90h self-
Electives in the Digital Technology and Management Bachelor's		study)
program. Compatibility with other programs of the university		
has to checked individually.		

Learning Outcomes

Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies:

- Students have an overview of the data science and machine learning domain
- Students can assess what problems can be tackled with data science and machine learning
- Students learn to find their own solutions, develop methods for solving problems, discuss and overcome issues through supervised but independent programming exercises
- Students learn to give convincing presentations of their results

Course Content

- Overview of data science and its significance in the industrial sector
- Industry process frameworks for structuring data science related projects
- Typical data sources, storage solutions and ETL pipelines
- Predictive Maintenance and Quality Control
- Exploratory Data Analysis case studies on assorted samples of industry problems (selection of e.g. sales data analysis, customer segmentation, portfolio analysis, supply chain optimization,...) including typical features/KPIs, relevant algorithms (e.g. for time-series analysis), report generation and result presentation

Teaching Material / Reading

- Data Science Concepts and Techniques with Applications (2nd edition), Usman Qamar, Springer, 2023
- Data Science for Business, Foster Provost, O'Reilly, 2013

Internationality (content-related)

internationally relevant topics

Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)					
Form of Examination ^{*1)}	Type/Scope incl. Weighting *2)	Learning Objectives/Competencies to be Assessed			
Module Work (ModA)	Multiple equally weighted programming case studies	The entire learning contents and competence profiles are assessed by way of the aforementioned examination form.			

^{*1)} Please refer to the applicable overview of the forms of examination at the OTH Amberg-Weiden

^{*2)} Please provide additional information on the weighting (in % share) and, if applicable, explain the bonus system.

The R and R	Studio Enviro	nment			
Classification	Module ID	K	Kind of Module		Number of Credits (ECTS)
	SED4		Elective		5
Location	Language	Duration of Module	• •		Max. Number of Participants
vhb	English	One Semester	Depending or	availablility	Depending on availability
Prof. Dr. Klaus Mos	Module Convender Module Convender		Prof. Dr. Klau		ssor / Lecturer Erlangen-Nürnberg)
		gen-Numberg)	PIOL DI. Nau	Moser (Universitat	
Prerequisites*					
None * Note: Blease al	so note the prorec	ulisites according to t	ho ovaminatio	n regulations in th	ne respective valid SPO version.
* NOLE: Please di	Usability	fuisites according to th		ing Methods	Workload
This module is	part of the module of	roup Specialization		the respective	150h
Electives in the Digi	tal Technology and	Management Bachelor's	program	·	
	bility with other prog as to checked indivio	grams of the university			
Learning Outcom	es				
a development envi debugging and wor	ronment for R, with kspace management	a console, syntax-highlig t. This course offers begin	phting editor that inners an easy, s	t supports direct coc tep-by-step introduc	dio thrives to solve this problem by offering le execution, and tools for plotting, history, ction to the R and RStudio Environment an introduction to data visualization and
2. D 3. V 4. M	1. EXPLORATION OF THE R ECOSYSTEM 2. DATA HANDLING 3. VISUALIZATION 4. MODELING 5. COMMUNICATING THE RESULTS				
Teaching Materia	l / Reading				
<u>http</u>	s://kurse.vhb.org/Vh	HBPORTAL/kursprogramn	m/kursprogramn	n.jsp?kDetail=true&C	COURSEID=14174,74,1456,1
Internationality (content-related)				
internationally relev	ant topics				
Method of Assess	Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)				
Form of Examina		pe/Scope incl. Weight			tives/Competencies to be Assessed
Depending on the s module selected	pecific				contents and competence profiles are the aforementioned examination form.

Classification	ification Module ID Kind of Module			Number of Credits (ECTS	
	SEI2		Elective	5	
Location	Language	Duration of Frequency of Module		Max. Number of Participa	
vhb				ummer	Depending on availability
	Module Conven	or		Profe	ssor / Lecturer
Prof. Dr. Alexander	Dobhan		Prof. Dr. Alex	ander Dobhan	
Prerequisites*					
* Note: Please al		quisites according to t	1	-	he respective valid SPO version.
	Usability	<u> </u>		ing Methods	Workload
Electives in the Dig program. Compati	ital Technology and	group <i>Specialization</i> Management Bachelor's grams of the university dually.	Depending of program	the respective	150h
Learning Outcom	ies				
computing, and	AI), and monitoring	n systems (ERP systems), activities (e.g., analysis o	the understand	ling of new technolo	ns in the environment of operational gies (including the use of IoT, cloud g from the processes; data analytics)
computing, and a important (IW 20 This course addr introduction to th their knowledge through practica opportunity to de	AI), and monitoring 016). resses these needs a he topic "ERP Syster of two ERP systems I experience. In the elve into current key	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busi	the understand of the operation , operational ap ses", the learnin Aicrosoft Dynan "IOT", "Mobile I	ling of new technolo al databases resultin plication systems (E ng environment offe nics NAV) and to cor RP", and "Data Extr	gies (including the use of IoT, cloud
computing, and a important (IW 20 This course addr introduction to tl their knowledge through practica opportunity to do central starting p	AI), and monitoring 016). resses these needs a he topic "ERP Syster of two ERP systems I experience. In the elve into current key	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies	the understand of the operation , operational ap ses", the learnin Aicrosoft Dynan "IOT", "Mobile I	ling of new technolo al databases resultin plication systems (E ng environment offe nics NAV) and to cor RP", and "Data Extr	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical rs participants the opportunity to deep solidate the theoretical foundations action", participants are given the
computing, and a important (IW 20 This course addr introduction to th their knowledge through practica opportunity to do central starting p Course Content Intr • EF • EF • EF • EF • EF • EF • Ca • Ca • Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - MICI ase study: IOT ase study: MOBILE E ase Study: DATA EXT	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV	the understand of the operation operational ap ses", the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio	ling of new technolo al databases resultin plication systems (E ng environment offen ics NAV) and to cor RP", and "Data Extr n processes. As an in	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical rs participants the opportunity to deep solidate the theoretical foundations action", participants are given the ntegrating data hub, ERP systems are
computing, and a important (IW 20 This course addr introduction to th their knowledge through practica opportunity to da central starting p Course Content Intr EF EF EF Ca Ca Ca Ca Ca Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - MICI ase study: IOT ase study: MOBILE E ase Study: DATA EXT al / Reading	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV	the understand of the operation operational ap ses", the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio	ling of new technolo al databases resultin plication systems (E ng environment offen ics NAV) and to cor RP", and "Data Extr n processes. As an in	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical rs participants the opportunity to deep solidate the theoretical foundations action", participants are given the ntegrating data hub, ERP systems are
computing, and important (IW 20 This course addr introduction to th their knowledge through practica opportunity to do central starting p Course Content Intr EF EF EF Ca Ca Ca Ca Ca Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - MICI ase study: IOT ase study: MOBILE E ase Study: DATA EXT	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV	the understand of the operation operational ap ses", the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio	ling of new technolo al databases resultin plication systems (E ng environment offen ics NAV) and to cor RP", and "Data Extr n processes. As an in	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical rs participants the opportunity to deep solidate the theoretical foundations action", participants are given the ntegrating data hub, ERP systems are
computing, and a important (IW 20 This course addr introduction to the their knowledge through practica opportunity to de central starting p Course Content Intri • EF • EF • EF • Ca • Ca • Ca • Ca • Ca • Ca • Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - MICI ase study: IOT ase study: MOBILE E ase Study: DATA EXT al / Reading	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV	the understand of the operation operational ap ses", the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio	ling of new technolo al databases resultin plication systems (E ng environment offen ics NAV) and to cor RP", and "Data Extr n processes. As an in	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical rs participants the opportunity to deep solidate the theoretical foundations action", participants are given the ntegrating data hub, ERP systems are
computing, and important (IW 20 This course addr introduction to the their knowledge through practica opportunity to de central starting p Course Content Intrr • EF • EF • EF • Ca • Ca • Ca • Ca • Ca • Ca • Ca • Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - MICI ase study: IOT ase study: IOT ase study: DATA EXT al / Reading e vhb (content-related)	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV	the understand of the operation operational ap ses", the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio	ling of new technolo al databases resultin plication systems (E ng environment offen ics NAV) and to cor RP", and "Data Extr n processes. As an in	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical rs participants the opportunity to deep solidate the theoretical foundations action", participants are given the ntegrating data hub, ERP systems are
computing, and a important (IW 20 This course addr introduction to the their knowledge through practica opportunity to de central starting p Course Content Intr • EF • EF • EF • Ca • Ca • Ca • Ca • Ca • Ca • Ca • Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - INFC RP application - MICI ase study: IOT ase study: MOBILE E ase Study: DATA EXT al / Reading e vhb (content-related) want topics	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV	the understand of the operational ap ses", the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio DREAM: From ir	ling of new technolo al databases resultin plication systems (E ig environment offer ics NAV) and to cor RP", and "Data Extr n processes. As an in dustrialization to dig	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical 's participants the opportunity to deep solidate the theoretical foundations action", participants are given the integrating data hub, ERP systems are italization
computing, and a important (IW 20 This course addr introduction to the their knowledge through practica opportunity to de central starting p Course Content Intr • EF • EF • EF • Ca • Ca • Ca • Ca • Ca • Ca • Ca • Ca	AI), and monitoring 016). resses these needs a he topic "ERP System of two ERP systems I experience. In the elve into current key point for implementin oduction to the field RP basic knowledge - RP application - INFC RP application - INFC RP application - MICI ase study: IOT ase study: MOBILE E ase Study: DATA EXT al / Reading e vhb (content-related) want topics	activities (e.g., analysis o nd introduces the central ns" and "Business Process (Infor VISUAL ERP and N subsequent case studies topics in the field of busing these digital trends. of ERP systems - LEA's D - THEORY OR VISUAL ERP ROSOFT DYNAMICS NAV RP TRACTION	the understand of the operational appress, the learnin dicrosoft Dynan "IoT", "Mobile I iness digitizatio DREAM: From in hoice as form	of examination -	gies (including the use of IoT, cloud g from the processes; data analytics) RP systems). After a theoretical 's participants the opportunity to deep solidate the theoretical foundations action", participants are given the integrating data hub, ERP systems are italization

Industry X.0 and Supply Chain Management						
Classification	Module ID	Kind of Module			Number of Credits (ECTS)	
	SEI3	Elective			5	
Location	Language	Duration of Module	Max. Number of Participants			
vhb	English	One Semester	Winter and S	ummer	Depending on availability	
Module Convenor Professor / Lecturer						
Prof. DrIng. Evi Ha	rtmann		Prof. DrIng	. Evi Hartmann		
Prerequisites*						
* Note: Please also		uisites according to t		-	e respective valid SPO version.	
	Usability			hing Methods	Workload	
Digital Technology	y and Management	b <i>Basic Electives</i> in the Bachelor's program. the university has to y.	Depending c program	n the respective	150h	
Learning Outcomes	S					
	ompletion of the r	nodule, students will	have acquire	d the following prof	essional, methodological and	
with basics such a focus shifts to Ind are covered. The course consis assessments. As t	urse is to impart the s supply chain plan ustry 4.0 and the as ts of ten lectures, w	ning, supply chain processociated principles, tech	sses, and supp nologies, and est lectures, ca	ly chain strategies with IT systems. Moreover, se studies, additional r	to the industrial transformations. Starting n continuous reference to digitization, the the topics sustainability and Industry 5.0 readings as well as exercises and self- n, proficiency in German is not necessary.	
Course Content						
 From history to cu Supply chain strat Supply chain proct Supply chain plant Principles of Indus Technologies in op IT systems in supply 	 Theoretical foundations of operations, supply chain management, and digital transformation From history to current trends and developments Supply chain strategy and dynamics Supply chain processes Supply chain planning Principles of Industry 4.0 Technologies in operations and supply chain management IT systems in supply chains Sustainable Industry 4.0 Industry 5.0 					
-	vhb					
500	VIID					
Internationality (content-related)						
internationally relevant topics						
Method of Assessm	nent (if applicable	e, notes on multiple c	hoice as forn	of examination - A	PO §9a)	
Form of Examinat	ion ^{*1)} Typ	e/Scope incl. Weight	ing ^{*2)}	Learning Object	ives/Competencies to be Assessed	
Written Exam	Written ex	kam		The entire learning or assessed by way of t	ontents and competence profiles are he aforementioned examination form.	

Pohotik

L

Robotics					
Zuordnung zum	Modul-ID Module ID	Art des Modu Kind of Module	ls	Umfang in ECTS-Leistungspunkte Number of Credits	
Classification	SEI4	Wahlpflichtmodul/Ve	rtiefung	5	
Ort Location	Sprache Language	Dauer des Moduls Duration of Module	Vorlesungsrhythmus Frequency of Module	Max. Teilnehmerzahl Max. Number of Participants	
Weiden	Deutsch	Einsemestrig	Wird regelmäßig im	24	
	Modulverantw		Wintersemester angeboter	Dozent/In	
Duef Du Menfued De	Module Con	venor	Pr	ofessor / Lecturer	
Prof. Dr. Manfred Be Voraussetzungen*			Prof. Dr. Manfred Beham		
Prerequisites					
		orgeometrie (Mathematik) und Grundla schaft zur Mitarbeit an einem Projekt		(Informatik I)	
	en Sie auch die Vo	raussetzungen nach Prüfungsord	nungsrecht in der jewei		
	Verwendb Availabili		Lehrformen Teaching Methods	Workload	
		ecialization Electives" des Bachelor- nagement sowie "Technik" in der	Seminaristischer Unterricht Übungen am PC mit der	t, Seminaristischer Unterricht: 30 h Übungen/Eigenstudium: 30 h	
Vertiefungsrichtung	"Digitalisierung in Pr	oduktion und Logistik" des	Stäubli-Entwicklungs-	Labor mit Anleitung: 30 h	
			umgebung und –Simulator Praktikum im Labor	 Projektarbeit: 60 h Gesamtaufwand: 150 h 	
anderen Studiengan				Gesanitaulwand. 150 h	
Lernziele / Qualifi	kationen des Mod	uls			
Learning Outcomes Nach dem erfolgre	eichen Absolvierer	n des Moduls verfügen die Studier	renden über die folgend	en fachlichen, methodischen und	
persönlichen Kom	petenzen:	-	-		
Fachkompetenz: Die Studierenden ke	nnen den Aufbau ur	nd die Funktionsweise eines Industrier	oboters. Sie können Bewea	ungsabläufe in verschiedenen	
Koordinatensysteme	n beschreiben und t	ransformieren. Sie kennen die grundle	egen Konzepte der Program	mierung, insbesondere die in der	
		nflusssteuerung und des Multitaskings. s Handbediengerätes steuern.	Sie kennen die Sicherheits	richtlinien im Umgang mit dem	
Methodenkompete	enz:	-			
		Stäubli-Entwicklungsumgebung konzi e einer Top-Down-Strategie zu modul			
Bildverarbeitungssys	tem können in die G	Sesamtapplikation eingebunden werde			
		petenz und Selbstkompetenz): en im Rahmen der Projektarbeit geför	dart. Dia Studiarandan kön	non grundlaganda Mathadan das	
		ams anwenden. Sie müssen Ergebniss			
Inhalte der Lehrve	aranstaltungan				
Course Content	_				
SicherheitseinwDer Roboter im					
Das Handbedie	ngerät				
	oordinatensysteme/k on/Programmierung	Kinematik			
 Multitasking 					
 Einführung in d Lehrmaterial / Lite 	ie Bildverarbeitung				
Teaching Material / Reading	g				
		der Steuerung und Regelung, Münche 1 7.0, © Stäubli Faverges 2015	en, wien: Hanser, 2002		
Beham Manfred: Vorlesungsmanusskript in englischer Sprache					
Internationalität (Internationality	Inhaltlich)				
Die Grundlagen der		weit in allen industriellen Fertigungsb smaterialien und Referenzhandbücher		und sind auch auf andere	
		tiple Choice - APO §9a)			
Prüfungsform ^{*1)}	Art/Um	fang inkl. Gewichtung ^{*2)}	Zu prüfende	Lernziele/Kompetenzen	
PrA		ealisierung einer Robotersteuerung		erden nahezu alle o.g. Kompetenzen	
Projektarbeit		er Gruppe (3 – 4 Personen) 5 – 20 min. (30% Gewichtung)		aktische Fähigkeiten und die rden durch eine erfolgreiche	
		peitung $15 - 25$ Seiten (70% Gew.)	Projektarbeit bewiesen.		

*1) Beachten Sie dazu geltende Übersicht zu den Pr
üfungsformen an der OTH Amberg-Weiden
 *2) Bitte zus
ätzlich Angaben zur Gewichtung (in % Anteil) und ggf. auch einen Hinweis auf ein Bonussystem f
ühren

SAP-Anwendungsentwicklung für Logistik 4.0

SAP Application Development for Digital Logistics

Zuordnung zum	Modul-ID	Art des Moduls	Umfang in ECTS-Leistungspunkte
Curriculum	Module ID	Kind of Module	Number of Credits
Classification	SEI5	Wahlpflichtmodul/Vertiefung	5

Ort Location	Sprache Language	Dauer des Moduls Duration of Module	Vorlesungsrhythmus Frequency of Module	Max. Teilnehmerzahl Max. Number of Participants	
Weiden	Deutsch	Einsemestrig	Wird regelmäßig im	25	
'			Wintersemester angeboten		
Mc	odulverantwortlich Module Convenor	ne(r)	Dozent/In Professor / Lecturer		
Prof. DrIng. Günter Kummetsteiner			M.A. Christoph Hammer		
Voraussetzungen* Prerequisites					
Sprachkenntnisse De	autsch Niveaustufe F	32			
Dieser Kurs ist gezielt auf "Nicht-Informatiker" ausgerichtet. Die Teilnehmer(innen) sollten allerdings über folgende Kenntnisse verfügen:				ber folgende Kenntnisse verfügen:	

Grundkenntnisse in der Softwareentwicklung mit mind. einer Programmiersprache

*Hinweis: Beachten Sie auch die Voraussetzungen nach Prüfungsordnungsrecht in der jeweils gültigen SPO-Fassung.					
Verwendbarkeit Availability	Lehrformen Teaching Methods	Workload			
Das Modul ist Teil der Modulgruppe "Specialization Electives" des Bachelorstudiengangs Digital Technology and Management sowie Teil der Modulgruppe "Interdisziplinär" in der Vertiefung "Digitalisierung in Produktion und Logistik" des Bachelorstudiengangs Wirtschaftsingenieurwesen. Die Verwendbarkeit in anderen Studiengängen der Hochschule ist im Einzelfall zu prüfen.	Seminaristischer Unterricht mit Übungen	Gesamtaufwand: 150 h			

Lernziele / Qualifikationen des Moduls

Learning Outcomes Nach dem erfolgreichen Absolvieren des Moduls verfügen die Studierenden über die folgenden fachlichen, methodischen und persönlichen Kompetenzen:

Das Ziel ist der Erwerb grundlegender Kenntnisse in Konzeption und Entwicklung moderner SAP-Anwendungen mit ABAP Objects.

Fachkompetenz:

- Die Studierenden kennen das Grundkonzept und die Syntax der Programmiersprache ABAP bzw. ABAP Objects und können diese anwenden.
- Die Studierenden kennen Besonderheiten, Beschränkungen und Möglichkeiten der Anwendungsentwicklung im ERP-System SAP.

Methodenkompetenz:

- Die Studierenden können einfache Anwendungen mit ABAP bzw. ABAP Objects selbständig entwerfen, im SAP-System implementieren und testen.
- Sie können die dazu erforderlichen Entwicklungswerkzeuge anwenden.

Persönliche Kompetenz (Sozialkompetenz und Selbstkompetenz):

• Im Rahmen der betreuten Programmierübungen lernen die Studierenden ihre erstellten Lösungen zu erläutern, deren Qualität und mögliche Lösungsalternativen zu diskutieren und die persönlich angewandte Problemlösungsstrategie kritisch zu reflektieren.

mögliche Lösungsalternativen zu diskutieren und die persönlich angewandte Problemlösungsstrategie kritisch zu reflektieren.
Inhalte der Lehrveranstaltungen
Course Content
Die Lehrveranstaltung bietet einen Überblick über Grundlagen und Potentiale der Programmiersprache ABAP bzw. ABAP Objects.
Als Basis werden zunächst folgende Themen behandelt:
Navigation und Grundkonzepte in SAP ERP
Moderne Entwicklungsumgebungen Eclipse und ABAP Workbench
Madulaviaionung mit ADAD. Datantungan und DataDistignam

- Modularisierung mit ABAP, Datentypen und DataDictionary
- Datenbankzugriffe mit SQL
- Erstellung einfacher Datenauswertungsfunktionen
- Dialogprogrammierung mit ABAP-Dynpro's
- Debuggen von ABAP-Coding
- Erweiterte objektorientierte Techniken

Um abschließend das Nutzenpotential der ABAP-Anwendungsentwicklung im betrieblichen Umfeld zu verdeutlichen, haben die Teilnehmer(innen) am Ende des Kurses die Möglichkeit z.B.

- einen ERP-Dialog aus dem SAP-Modul Logistik individuell anzupassen
- einen spezifischen Report in die SAP-Oberfläche einzubinden
- o.ä.

Zudem werden im Laufe des Kurses weitere ABAP-Anwendungen vorgestellt.

Lehrmaterial / Literatur Teaching Material / Reading

OTH-spezifische Schulungsunterlagen

Internationalität (Internationality	Internationalität (Inhaltlich) Internationality					
	Viele große, weltweit agierende Unternehmen setzen branchenübergreifend SAP-Software ein. Die behandelten Inhalte sind zu großen Teilen weltweit von Relevanz.					
Modulprüfung (gg Method of Assessment	f. Hinweis zu Multiple Choice - APO §9a)					
Prüfungsform ^{*1)}	Art/Umfang inkl. Gewichtung ^{*2)}	Zu prüfende Lernziele/Kompetenzen				
Klausur (Kl)	Schriftliche Prüfung; Dauer 90 Min. Teilnahme an der Klausur ist nur mit gültigen kursspezifischen Zugangsdaten zum SAP-System zulässig. Diese werden zu Beginn des jeweiligen Vorlesungssemesters vergeben. Hinweis (unabhängig von der regulären Mindestpunktzahl für das Bestehen der WPM-Prüfung): Bei regelmäßiger Teilnahme (max. 2 Fehltermine) und Erreichen von mind. 65% der Gesamtpunktzahl der Prüfung wird zusätzlich ein Zertifikat inkl. Logo der SAP UA ausgestellt. (Muster siehe ergänzende Kursbeschreibung unter <u>https://oth-aw.de/sap-factory</u>)	Über die schriftliche Prüfung werden die grundlegenden Elemente der o.g. Kompetenzen abgeprüft.				

*1) Beachten Sie dazu geltende Übersicht zu den Prüfungsformen an der OTH Amberg-Weiden
 *2) Bitte zusätzlich Angaben zur Gewichtung (in % Anteil) und ggf. auch einen Hinweis auf ein Bonussystem führen

Smart Factory						
Classification	Module ID SEI6	K	Kind of Module Elective		Number of Credits (ECTS) 5	
Location	Language	Duration of Module	Frequenc	y of Module	Max. Number of Participants	
Weiden	English	One Semester	Winter Semester 2024/25	, start expected	30 There is neither a claim to actual realization of the module nor to participation	
	Module Convend	r		Profess	or / Lecturer	
Prof. Dr. Kris Dalm			Prof. Dr. Kris Dalm			
Prerequisites*	Prerequisites*					
* Note: Please als		uisites according to t			respective valid SPO version.	
	Usability			g Methods	Workload	
<i>Electives</i> in the Digit program. Compatib		lanagement Bachelor's rams of the university	details to be spe semester the mo		150h, details to be specified in the first semester the module is taught	
personal skills and	ompletion of the r l competencies:				essional, methodological and	
In this module, students develop the Weiden Smart Factory by conducting several projects within the factory. Students define projects and apply the visited lectures to conduct them, e.g., Project Management, Industrial Engineering or Communication Technology. Projects can be (selection): Human-Robot-Interaction and mobile/stationary robot applications Assembly applications and worker assistant systems Predictive maintenance procedures Augmented/Virtual Reality applications Communication technology and automation applications (e.g., for training purposes) Logistics application (e.g., AGVs, RFID, 5G) Technologies and methods that can be applied (selection): Machine Learning algorithms (both vision and data driven) Digital technologies (e.g., AR/VR) Automation programming						
	bot-Interaction hardware developme	ent				
Course Content						
 Project Ma Conceptua Conduction Test/valida 	anagement of define al engineering (desig n phase (programm ation phase	nart Factory applications d project In, CAD, PCB layout, etc. Ing, assembling, etc.)				
 Wengle, M., Dalm, K., Sahuji, R. (2023). Implementation of a Prototype Production Line based on concept of Industrial Digitalization in an existing Learning Factory environment. Reutlingen (13th Conference on Learning Factories - CLF 2023). Available at SSRN: https://ssrn.com/abstract=4456952 Dalm, K. and Sahuji, R. (2021). Industrial Digitalization for Society - A Learning Factory Concept based on Four Pillars. Graz (11th Conference on Learning Factories - CLF 2021). Poster Publication. Available at SSRN: http://dx.doi.org/10.2139/ssrn.3858347 						
Internationality (content-related)					
internationally releva	ant topics					
Method of Assess Form of Examinat	ment (if applicable tion ^{*1)}	e, notes on multiple c ype/Scope incl. Weigl	hoice as form of hting ^{*2)}	examination - AF Learning Objec	PO §9a) ctives/Competencies to be Assessed	
Module work (ModA)		ork in Groups; each grou ect result in a written for on			t is used to test the practical learning betence profiles, including teamwork and S.	

Zuordnung zum	Modul-ID	Art des Mo		Umfang in ECTS-Leistungspunkte				
Curriculum Classification	Module ID SEH1	Kind of Moo Wahlpflichtr		Number of Credits 5				
Ort Location	Sprache Language	Dauer des Moduls Duration of Module	Vorlesungsrhythmus Frequency of Module	Max. Teilnehmerzahl Max. Number of Participants				
Weiden	Deutsch	einsemestrig	WiSe	Max. Number of Participants				
	Modulverantw	ortliche(r)		Dozent/In				
Prof. Dr. Steffen Har	Module Con	venor		Professor / Lecturer Prof. Dr. Andreas Kühnl / Herr Konrad				
Voraussetzungen*			Thom Dr. Sterren Hammy P	Tor. Dr. Andreas Kullin / Herr Kolliad				
Prerequisites								
*Hinweis: Beachte	en Sie auch die V	oraussetzungen nach Prüfungs	ordnungsrecht in der jew	veils gültigen SPO-Fassung.				
	Verwendb Availabili		Lehrformen Teaching Methods	Workload				
	er Modulgruppe "Sp	ecialization Electives" des	Vorlesung;	Kontaktzeit: 60 h				
Bachelorstudiengang	is Digital Technolog	gy and Management, der studiengang Digital Healthcare	Seminaristischer Unterricht:	Eigenstudium: 90 h Gesamtaufwand: 150 h				
		s- und Qualitätsmanagement" im	Übung/Projektarbeit;	Gesandadiwand. 150 h				
		nce und Teil der Modulgruppe	Exkursion					
"Integration" im Bac	helorstudiengang N	ledizintechnik; die hochschulweite						
Verwendbarkeit ist ir	m Einzelfall zu prüf	en.						
Lernziele / Qualifi	kationon dos Mo	dula						
Learning Outcomes								
		en des Moduls verfügen die Stud	lierenden über die folger	nden fachlichen, methodischen und				
persönlichen Kom	•	ssenschaftliche Grundsätze anzuwe	adon und für das Untornohn	non zu putzon				
 Sie besitzen Gru 	 Sie haben einen Überblick über aktuelle Entwicklungen und Trends im Gesundheitswesen und der Gesundheitspolitik. 							
 Sie haben einer 				• Die Studierenden sind in der Lage, selbständig Informationen zu beschaffen, zu verarbeiten, zu strukturieren und zu präsentieren.				
Sie haben einerDie Studierende	en sind in der Lage	, selbständig Informationen zu besc	haffen, zu verarbeiten, zu si					
 Sie haben einer Die Studierende Sie arbeiten koe 	en sind in der Lage operativ und komm	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen	gemeinsam zu lösen.				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die 	en sind in der Lage operativ und komm Auswirkungen von	, selbständig Informationen zu besc	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen	gemeinsam zu lösen.				
 Sie haben einer Die Studierende Sie arbeiten kon Sie können die Inhalte der Lehrve Course Content 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge	haffen, zu verarbeiten, zu si en, um Aufgabenstellungen schehen einschätzen und be	gemeinsam zu lösen.				
 Sie haben einer Die Studierende Sie arbeiten kon Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh	haffen, zu verarbeiten, zu si en, um Aufgabenstellungen schehen einschätzen und be	gemeinsam zu lösen.				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie;	haffen, zu verarbeiten, zu si en, um Aufgabenstellungen schehen einschätzen und be	gemeinsam zu lösen.				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d Aspekte der Ge Grundlagen der 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökor sundheitspolitik un Betriebswirtschaft	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe-	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems;	gemeinsam zu lösen. ewerten.				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d Aspekte der Ge Grundlagen der Vergütungs- un 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökor sundheitspolitik un Betriebswirtschaft d Abrechnungssyst	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe- teme (DRG, GOÄ, EBM),	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems;	gemeinsam zu lösen. ewerten.				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d Aspekte der Ge Grundlagen der Vergütungs- un Struktur des de 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökor sundheitspolitik un Betriebswirtschaft d Abrechnungssyst utschen Gesundhe	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe- teme (DRG, GOÄ, EBM), itssystems,	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems; esondere im Kontext des Kra	gemeinsam zu lösen. ewerten. ankenhaus Managements;				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Entwicklung, Gi Einführung in d Aspekte der Ge Grundlagen der Vergütungs- un Struktur des de Planspiel und Exkurs 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökor sundheitspolitik un Betriebswirtschaft d Abrechnungssyst utschen Gesundhe ionen geben Einbli	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe- teme (DRG, GOÄ, EBM), itssystems, cke in die Betriebsführung eines Kra	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems; esondere im Kontext des Kra	gemeinsam zu lösen. ewerten. ankenhaus Managements;				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Entwicklung, Gi Einführung in d Aspekte der Ge Grundlagen der Vergütungs- un Struktur des de Planspiel und Exkurs Krankenhausmanage Lehrmaterial / Litit 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökol sundheitspolitik un · Betriebswirtschaft d Abrechnungssyst utschen Gesundhe sionen geben Einblie ements inkl. Contro eratur	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe- teme (DRG, GOÄ, EBM), itssystems, cke in die Betriebsführung eines Kra	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems; esondere im Kontext des Kra	gemeinsam zu lösen. ewerten. ankenhaus Managements;				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d Aspekte der Ge Grundlagen der Vergütungs- un Struktur des de Planspiel und Exkurss Krankenhausmanage Lehrmaterial / Lit Teaching Material / Readim 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökol sundheitspolitik un · Betriebswirtschaft d Abrechnungssyst utschen Gesundhe sionen geben Einblie ements inkl. Contro eratur	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe- teme (DRG, GOÄ, EBM), itssystems, cke in die Betriebsführung eines Kra	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems; esondere im Kontext des Kra	gemeinsam zu lösen. ewerten. ankenhaus Managements;				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d Aspekte der Gee Grundlagen der Vergütungs- un Struktur des de Planspiel und Exkurss Krankenhausmanage Lehrmaterial / Lit Teaching Material / Lit Teaching Material / Reading 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökor sundheitspolitik un Betriebswirtschaft d Abrechnungssyst utschen Gesundhe isonen geben Einbli ements inkl. Contro eratur g : Das Gesundheitss	, selbständig Informationen zu besc nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe teme (DRG, GOÄ, EBM), itssystems, cke in die Betriebsführung eines Kra Iling.	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems; esondere im Kontext des Kra inkenhauses und die Organia g 3. Auflage	gemeinsam zu lösen. ewerten. ankenhaus Managements;				
 Sie haben einer Die Studierende Sie arbeiten koo Sie können die Inhalte der Lehrve Course Content Entwicklung, Gi Einführung in d Aspekte der Gee Grundlagen der Vergütungs- un Struktur des dee Planspiel und Exkurss Krankenhausmanage Lehrmaterial / Lit Teaching Material / Lit Teaching Material / Reading Referenzwerke: Simon, Michael Grethler Anja: F 	en sind in der Lage operativ und komm Auswirkungen von eranstaltungen rundprinzipien und ie Gesundheitsökor sundheitspolitik un Betriebswirtschaft d Abrechnungssyst utschen Gesundhe ionen geben Einbli- ements inkl. Contro eratur g : Das Gesundheitss Fachkunde für Kauf	, selbständig Informationen zu besch nunizieren effektiv im Team zusamm Entscheidungen auf das Betriebsge Strukturen des deutschen Gesundh- nomie; d Trends; und deren Funktionsbereiche, insbe- teme (DRG, GOÄ, EBM), itssystems, cke in die Betriebsführung eines Kra lling.	haffen, zu verarbeiten, zu si ien, um Aufgabenstellungen schehen einschätzen und be eitssystems; esondere im Kontext des Kra inkenhauses und die Organis g 3. Auflage e Verlag 2. Auflage	gemeinsam zu lösen. ewerten. ankenhaus Managements;				

• Wöhe, G.: Einführung in die Allgemeine Betriebswirtschaftslehre Weiterführende Literatur:

Wernitz Martin, Pelz, Jörg: Gesundheitsökonomie und das deutsche Gesundheitswesen, Kohlhammer Verlag Internationalität (Inhaltlich)

Internationality

Modulprüfung (ggf. Hinweis zu Multiple Choice - APO §9a) Method of Assessment					
Prüfungsform ^{*1)}	Art/Umfang inkl. Gewichtung ^{*2)}	Zu prüfende Lernziele/Kompetenzen			
Klausur	Schriftliche Schlussklausur, Dauer 90 Minuten Fragestellungen auf einfachem fachlichem Niveau können auch über multiple choice Methode geprüft werden.	Über die Klausur werden nahezu die gesamten Lerninhalte und Kompetenzprofile abgeprüft.			

Gesundheitsökonomie und Krankenhausmanagement II Health Economics and Hospital Management II						
Zuordnung zum	Modul-ID Module ID	4	Art des Modul Kind of Module	ls	Umfang in ECTS-Leistungspunkte Number of Credits	
Curriculum Classification	SEH2		Pflichtmodul		5	
Ort	Sprache	Dauer des Moduls		sungsrhythmus	Max. Teilnehmerzahl	
Location Weiden	Language Deutsch	Duration of Module	Free	quency of Module	Max. Number of Participants 30	
Ma	odulverantwortlid	che(r)		Do	ozent/In	
Prof. Dr. Steffen Har	Module Convenor mm		Prof. Dr. Ste	Professor / Lecturer Prof. Dr. Steffen Hamm/ Prof. Dr. Andreas Kühnl		
Voraussetzungen* Prerequisites	k					
*Hinweis: Beachte		-	_		weils gültigen SPO-Fassung.	
	Verwendbarke Availability	it	Te	ehrformen eaching Methods	Workload	
Das Modul ist Teil der Modulgruppe "Specialization Electives" des Bachelorstudiengangs Digital Technology and Management, der Modulgruppe "Healthcare" im Bachelorstudiengang Digital Healthcare Management der Modulgruppe "Prozess- und Qualitätsmanagement" im Bachelorstudiengang Physician Assistance; die hochschulweite Verwendbarkeit ist im Einzelfall zu prüfen.			Seminaristise Übungen	cher Unterricht mit	Kontaktzeit: 60 h Selbststudium: 60 h Prüfungsvorbereitung: 30 h	
Lernziele / Qualifi	kationen des Mo	duls				
und persönlic Studierende sind in der können die können St sind in der arbeiten k Inhalte der Lehrve Course Content Markt und Akteure de Vertiefung Vertiefung Qualitäts- Finanzieru Planspiel und Exkurs Lehrmaterial / Lit Teaching Material / Reading Vetter, Ulr	 sind in der Lage, gesundheitspolitische Konzeptionen zu verstehen und zu bewerten können die Gesundheitsversorgung ökonomisch bewerten und das Problem der Allokation und Distribution verstehen können Struktur- und Anreizmechanismen des Gesundheitssystems erläutern und ökonomisch bewerten sind in der Lage, selbständig Informationen zu beschaffen, zu verarbeiten, zu strukturieren und zu präsentieren. arbeiten kooperativ und kommunizieren effektiv im Team zusammen, um Aufgabenstellungen gemeinsam zu lösen. Inhalte der Lehrveranstaltungen Course Content Markt und Wettbewerb im Gesundheitswesen Akteure der Gesundheitsversorgung und -politik Vertiefung der Strukturen des deutschen Gesundheitssystems Vertiefung ausgewählter gesundheitsökonomischer Bereiche Qualitäts- und Risikomanagement im Gesundheitswesen Finanzierung von Gesundheitssystemen Planspiel und Exkursionen geben Einblicke in die Aufgaben und Prozesse der Akteure der Gesundheitsversorgung und -politik. Lehrmaterial / Literatur Teaching Material / Reading					
	iedrich/Zweifel, Pet	rfolgreich: Planen - Gesta er: Gesundheitsökonomik			-	
Internationality						
Modulprüfung (gg Method of Assessment	f. Hinweis zu Mu	Itiple Choice - APO §9	a)			
Prüfungsform ^{*1)}	Art/Un	nfang inkl. Gewichtung	3 ^{*2)}	Zu prüfer	nde Lernziele/Kompetenzen	
			den nahezu die gesamten Lerninhalte und geprüft.			

Γ

*1) Beachten Sie dazu geltende Übersicht zu den Pr
üfungsformen an der OTH Amberg-Weiden
 *2) Bitte zus
ätzlich Angaben zur Gewichtung (in % Anteil) und ggf. auch einen Hinweis auf ein Bonussystem f
ühren

Gesundheitssysteme im internationalen Vergleich International Healthcare Systems

Zuordnung zum	Modul-ID	Art des Moduls	Umfang in ECTS-Leistungspunkte
Curriculum	Module ID	Kind of Module	Number of Credits
Classification	SEH3	Vertiefungsmodul	5

Ort	Sprache	Dauer des Moduls		sungsrhythmus	Max. Teilnehmerzahl	
Location Weiden und/oder	Language Deutsch	Duration of Module einsemestrig	Fre Wird jährlich	quency of Module a angeboten	Max. Number of Participants X	
online Modulverantwortliche(r)			Dozent/In			
	Module Convenor			Pro	fessor / Lecturer	
Prof. Dr. Steffen Ha			Prof. Dr. Dr.	Stefanie Steinhauser		
Prerequisites						
*Hinweis: Beacht	en Sie auch die V	/oraussetzungen nach I	Prüfungsord	nungsrecht in der jo	eweils gültigen SPO-Fassung.	
	Verwendbarke Availability	eit		ehrformen eaching Methods	Workload	
	er Modulgruppe "S	pecialization Electives"		cher Unterricht	Kontaktzeit: 60 h	
des Bachelorstudier		nology and efung Healthcare" im			Selbststudium/Nachbereitung:60 Prüfungsvorbereitung: 30 h	h
Bachelorstudiengan					Gesamtaufwand: 150 h	
hochschulweite Ver	wendbarkeit ist im	Einzelfall zu prüfen.				
Lernziele / Qualif	ikationen des Mo	oduls				
Learning Outcomes						<u> </u>
persönlichen Kon		en des Moduls verfuge	n die Studier	enden über die folg	jenden fachlichen, methodischen	und
Die Studierenden						
	ukturen und typisc	hen Merkmale ausgewählt	ter Gesundheit	ssysteme erläutern ur	id beurteilen	
		en der deutschen Gesundh	neitspolitik und	können Gesundheits	eformen als Auseinandersetzungen u	Im
Interessen deu kennen grundl		ngen von Gesundheitssyst	emen insh di	e Finanzierungsaltern	ativen, aber auch die Interdependenz	7en
		stenträgern und Patienten			tiven, uber duen die merdependenz	.cn
		kriterien, mit Hilfe derer si	ie auch Outcor	ne-orientierte Vergleid	che zwischen einzelnen Systemen	
vornehmen kö • ordnen selbsts		e Gesundheitssystem im ir	nternationalen	Veraleich ein		
Inhalte der Lehrv Course Content	eranstaltungen					
	Wordloiche von Co	sundheitssystemen				
		schen Gesundheitspolitik				
		. England, USA, Niederlan	de, etc. inkl. S	ystemprägenden Attr	buten	
Europäische G	esundheitspolitik					
Lehrmaterial / Lif Teaching Material / Reading						
• OECD 2003 He						
 European observation 	rvatory on Healh C	Care Systems: www.observ	vatory.dk			
 Health Policy N 	1onitor: <u>www.healt</u>	hpolicymonitor.org				
 Rosenbrock\Getter 	erlinger: Gesundhei	itspolitik. Bern2005				
		izinmanagement, Berlin20)13			
Internationalität Internationality	(Inhaltlich)					
	yf. Hinweis zu M	ultiple Choice - APO §9a	a)			
Method of Assessment						
D	1		*7)			

Prüfungsform ^{*1)}	Art/Umfang inkl. Gewichtung ^{*2)}	Zu prüfende Lernziele/Kompetenzen
Klausur	Schriftliche Schlussklausur, Dauer 90 Minuten Fragestellungen auf einfachem fachlichem Niveau können auch über multiple choice Methode geprüft werden.	Über die Klausur werden nahezu die gesamten Lerninhalte und Kompetenzprofile abgeprüft.

*1) Beachten Sie dazu geltende Übersicht zu den Prüfungsformen an der OTH Amberg-Weiden
 *2) Bitte zusätzlich Angaben zur Gewichtung (in % Anteil) und ggf. auch einen Hinweis auf ein Bonussystem führen

E-Health und M-Health E-Health and M-Health

Zuordnung zum	Modul-ID	Art des Moduls	Umfang in ECTS-Leistungspunkte
Curriculum	Module ID	Kind of Module	Number of Credits
Classification	SEH4	Pflichtmodul	5

Ort	Sprache Language	Dauer des Moduls Duration of Module	Vorlesungsrhythmus Frequency of Module	Max. Teilnehmerzahl Max. Number of Participants	
Weiden	Deutsch	1 Semester	WiSe	30	
Modulverantwortliche(r) Module Convenor		Dozent/In Professor / Lecturer			
Prof. Dr. Steffen Har			Prof. Dr. Steffen Hamm/Lehrbeauft		
Voraussetzungen* Prerequisites					
*Hinweis: Beachte	en Sie auch die Vo	oraussetzungen nach I	Prüfungsordnungsrecht in der je	weils gültigen SPO-Fassung.	
Verwendbarkeit Lehrformen Workload Availability Teaching Methods Workload					
Das Modul ist Teil der Modulgruppe "Specialization Electives" des Bachelorstudiengangs Digital Technology and Management, der Modulgruppe "Digital" im Bachelorstudiengang Digital Healthcare Management sowie Teil der Modulgruppe "System- und Methodenkompetenz" im Bachelorstudiengang Physician Assistance; die hochschulweite Verwendbarkeit ist im Einzelfall zu prüfen.		Seminaristischer Unterricht mit Übungen	Kontaktzeit: 60 h Selbststudium: 60 h Prüfungsvorbereitung: 30 h		
Lernziele / Qualifi	kationon dos Mov	dule			
Learning Outcomes			u die Otredienen dem über die Gebre		
persönlichen Kom		n des moduls vertugei	n die Studierenden über die folge	enden fachlichen, methodischen und	
 Kenntnis r Überblick i Wissen üb Elektronisc elektronisc Ferndiagno Gesundhei Krankheits 	 Wissen um Digitalisierung von Prozessen im Gesundheitswesen Kenntnis rechtlicher Rahmenbedingungen Überblick über Krankenhausinformationssysteme, Praxisverwaltungssysteme Wissen über die Möglichkeiten der Telemedizin Elektronische Gesundheitsakte elektronisch gestütztes Krankheits- und Wissensmanagement Ferndiagnosen und Ferntherapie Gesundheitsportale Krankheitsprävention, Vitaldatenüberwachung, Wearables (Activity-Tracker) 				
Inhalte der Lehrveranstaltungen Course Content					
 Digitalisierung von Prozessen im Gesundheitswesen Rechtliche Rahmenbedingungen Krankenhausinformationssysteme, Praxisverwaltungssysteme Telemedizin Elektronische Gesundheitsakte elektronisch gestütztes Krankheits- und Wissensmanagement Ferndiagnosen und Ferntherapie Gesundheitsportale Krankheitsprävention, Vitaldatenüberwachung, Wearables (Activity-Tracker) 					
Lehrmaterial / Lite					
 Trill, Roland; Bartmann, Franz-Joseph; Breitschwerdt, Rüdiger: Praxisbuch eHealth: Von der Idee zur Umsetzung, Kolhammer Verlag Matusiewicz, David; Pittelkau, Christian; Elmer, Arno: Die Digitale Transformation im Gesundheitswesen: Transformation, Innovation, Disruption, MWV Medizinisch Wissenschaftliche Verlagsgesellschaft Andelfinger, Volker P.; Hänisch, Trill: eHealth: Wie Smartphones, Apps und Wearables die Gesundheitsversorgung verändern werden, Springer Verlag Jorzig, Alexandra; Sarangi, Frank: Digitalisierung im Gesundheitswesen: Ein kompakter Streifzug durch Recht, Technik und Ethik, Springer Verlag (erscheint 2020) 					

Internationalität (Inhaltlich) Internationality

Modulprüfung (ggf. Hinweis zu Multiple Choice - APO §9a) Method of Assessment					
Prüfungsform ^{*1)}	Art/Umfang inkl. Gewichtung ^{*2)}	Zu prüfende Lernziele/Kompetenzen			
Klausur	Schriftliche Schlussklausur, Dauer 90 Minuten Fragestellungen auf einfachem fachlichem Niveau können auch über multiple choice Methode geprüft werden.	Über die Klausur werden nahezu die gesamten Lerninhalte und Kompetenzprofile abgeprüft.			

*1) Beachten Sie dazu geltende Übersicht zu den Prüfungsformen an der OTH Amberg-Weiden
 *2) Bitte zusätzlich Angaben zur Gewichtung (in % Anteil) und ggf. auch einen Hinweis auf ein Bonussystem führen

Classification	Module ID	K	Kind of Module	Number of Credits (ECTS)
	SEM1		Elective	5
location		Duration of	Erosuchev of Module	Max Number of Participants
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants
/hb	English	One Semester	Depending on availablility	Depending on availability
	Module Conven	-		ofessor / Lecturer
rof. Dr. Björn Iven	s (vhb, Otto-Friedric	ch-Universität Bamberg)	Prof. Dr. Björn Ivens (vhb, Ott	o-Friedrich-Universität Bamberg)
Prerequisites*				
None * Note: Please als	so note the prere	quisites according to t	he examination regulations i	n the respective valid SPO version.
	Usability	<u>,</u>	Teaching Methods	Workload
Digital Technolog	gy and Management	up <i>Basic Electives</i> in the t Bachelor's program. f the university has to	Online vhb course	150h
Compatibility with	checked individual			
Learning Outcom	195			
Learning Outcomes				
		module, students will	have acquired the following	professional, methodological and
personal skills an	nd competencies:			
In order to account	for the increasing i	moortance of blockchain t	technology in husiness practice a	nd in order to get students ready for this ne
			Applications for Business".	ווע ווו טועפו נט פפן זנגעפונג ופמעץ וטו נווא וופ
				hain fundamentals and gain comprehensive
				id, this course will help students understand
				o further explore the blockchain topic.
current acreiophie.		In many average peropeet.		future explore the blockentain topic.
Course Content				
1. F	oundations of Block	chain Technology and App	nlications	
	Introduction to Block		picaciónio	
	Tech Basics of Block			
	Exploring the Bitcoi	5,		
		Smart Contracts on Ether	roum	
		n of Blockchain Technolog		
		knesses of Blockchain Technolog		
	•	s Opportunities in the Blo		
		s in Different Business Are		
		chain: Introduction & Mar		
		chain: Finance Industry	Keting	
		chain: Automotive Industry	m 1	
		chain: Supply Chains & Io		
		chain: Vocational Education	on Training gal, Societal, and Ecological Aspe	ate of Blockshain
ч. А	Differentiated Fersp		שמו, שנופנמו, מווע בנטוטעונמו אסףכ	
Teaching Materia	I / Reading			
	https://kurse.vhb.o	rg/VHBPORTAL/kursprog	ramm/kursprogramm.jsp?kDetai	=true&COURSEID=14042,74,1403,1
Internationality (content-related)			
internationally relev			heirs as form of oxomination	
Method of Assess		le, notes on multiple c	choice as form of examination	1 - APU §9a)
Form of Examina	ition ^{*1)} Ty	pe/Scope incl. Weighti	ing ^{*2)} Learning Ob	jectives/Competencies to be Assessed
			1	
Written exam				ng contents and competence profiles are of the aforementioned examination form.

Business Model Innovation						
Classification	tion Module ID Kind of Module			Number of Credits (ECTS)		
	SEM2		Elective	5		
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants		
vhb	English	One Semester	Each inter semester	Depending on availability		
	Module Conven	or	Profe	ssor / Lecturer		
Prof. Dr. Julia Heig)l		Prof. Dr. Julia Heigl			
Prerequisites*						
None * Note: Please a	lso note the prerec	uisites according to	the examination regulations in t	he respective valid SPO version.		
	Usability		Teaching Methods	Workload		
The module is part of the module group SpecializationGuided project workContact time/coaching:Electives of the Digital Technology and ManagementSelf-study and project workSelf-study and project workBachelor's degree program. It is also used as Elective in the DHM, TM and WI programs.DHM, TM and WI programs.Total workload:				Self-study and project work: 90 h		
		module, students wil	I have acquired the following pro	ofessional, methodological and		
digitizati Students Students 	s analyze current and ion (and other megatiss s will analyze custome	rends). er needs and develop ne	ew value propositions.	rticularly with regard to the effects of d necessary architecture (resources,		
approac canvas a • Students	dents apply common (hes for the further de and other templates. s recognize intercultu	velopment of the busine	challenges in teamwork and adapt th	roject. They use personas, business model		

Personal Skills (Social Competence and Self-competence):

- Students will be able to cooperatively plan and execute a team project on time, working effectively and thoughtfully, especially in a heterogeneous, interdisciplinary, and international team, and if necessary, leading the team.
- Students will be able to communicate results effectively and express complex information concisely and comprehensively, both orally and in writing.

Course Content

Global megatrends such as digitization have a radical impact on what and how companies create benefits for customers (value proposition innovation), how these benefits are delivered (architectural innovations) and how companies earn money (revenue model innovations). Therefore, existing business models must be deliberately changed in the sense of a business model innovation or others must be created from scratch. In contrast to product or process innovations, business model innovations thus directly address a company's business model. Not only are customer needs better satisfied, but the basic structures and competitive rules of the industry are also called into question.

As part of the module, students work on an international project in teams with students from other universities on a current, real-life practical issue in which a new platform business model (virtualtraveller.com) is to be scrutinized and made more attractive for both end users (young travelers) and advertisers (including FinnAir, Samsung, but also small local providers).

The task will be worked on in defined sub-steps, supported by teaching units on the following topics:

- Working with the Business Model Canvas: analysis, development and evaluation of an own business model.
- Impact of digitalization and other megatrends on business models and organizations
- Platform business
- Basics of the design thinking process
- Understanding user groups and their needs, requirements and problems (developing persona)
- Working with a 360° camera, shooting your own filem
- Brainstorming and creativity techniques
- Evaluating market potential and revenue model

- Business models in practice

Teaching Material / Reading

Kim, W. C./Mauborgne, R.: How to create uncontested market space and make the competition irrelevant. Harvard Business Review, 4. Jahrgang (2005), Nr. 13, 1-2.

Osterwalder, A./Pigneur, Y.: Business model generation: a handbook for visionaries, game changers, and challengers. John Wiley & Sons, 2010.

Robier, J.: UX Redefined. Winning and Keeping Customers with Enhanced Usability and User Experience, Springer 2016.

Internationality (content-related)					
The project takes place in cooperation with the universities Haaga-Helia University of Applied Sciences, Helsinki/Finland and Thomas More Hoge-school, Geel/Belgium.					
Teams are international and	must communicate in English.				
The accompanying lectures v	vill also be held in English.				
The practical question dealt	with is of international relevance.				
Method of Assessment (if	f applicable, notes on multiple choice as form of examination - APO §9a				
Form of Examination ^{*1)}	Type/Scope incl. Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed			
Module work (ModA)	Project work (written + oral) in groups of approx. 6 students each (2 from Weiden, 4 from Finland and/or Belgium) on a business question presented at the beginning of the semester in several phases, which are presented at the project kickoff and are to be worked on successively. Each student has to contribute individually to the common task. The overall results are to be submitted in the form of a pitch video (English) as well as a written summary (approx. 15 pages per German group of 2, language English or German), weighting 50/50.	The group project is used to test the practical learning content and competence profiles, including teamwork and presentation skills.			

Classification	Module ID		Kind of Module		Number of Credits (ECTS)
	3.4		Mandatory		5
					L
Location	Language	Duration of Module	Frequenc	y of Module	Max. Number of Participants
Weiden	English	One Semester	be offered in winter 202 plan provides for the m standard semester, you recommended to switch follow the steps commu and via the notice board	SPO, the module will not 4/25. If your current study odule in the 3rd/4th are strongly to the new SPO. Please nicated to you by email d. In case of doubt, please gramme director Prof. Dr.	60
Prof. Dr. Julia Lloia	Module Conven	or	Dref Dr. Julia II		or / Lecturer
Prof. Dr. Julia Heig	1		Prof. Dr. Julia He	eigi	
Prerequisites*					
None * Note: Please a	lso note the prerec	uisites according to	the examination	regulations in the	respective valid SPO version.
	Usability		Teachin	g Methods	Workload
Digital Technology	and Management ba other programs of th		Lecture, semina guest lecture, pr practical applica software	oject work,	Contact time:6Self-study:9Total workload:150
Learning Outcon Learning Outcomes					
		module, students wil	I have acquired t	he following profe	ssional, methodological and
•	nd competencies:	the impact of digitaliza	tion on markoting a		
	,	the impact of digitalizations, essential terms, o			
•		ition and purchasing bel	•		
		arketing campaigns and			
 Describe world ca 	the digital marketing ses.		evant for B2B comp	panies, to discuss the	em critically and to apply them to real
		in state-of-the-art softw			
Course Content					
The impa	act of digitalization o	n marketing and sales -	strategy, marketing	mix, operations.	
	ions of digital market				
 Planning 	digital marketing car	mpaigns.			
 Custome 	er Journey Mapping.				
website	design; search engin); influencer market	ting; social media ma	nce measurement: e.g. corporate arketing; B2B e-commerce; affiliate
Applicati Teaching Materia	on of artificial intellig	ence in marketing			
2	. 2	(2010), Digital marketi	ng 7th od Doorco	- Harlow England	Now York
 Artun, Ö 					ner Analytics and Big Data. John Wile
Kingsnor	th, S. (2019): Digital	Marketing Strategy: An	Integrated Approa	ch to Online Marketi	ng, 2nd ed., Kogan Page.
 Waite, K 	./Vega, R.P. (2018):	The Essentials of Digital	l Marketing, Global	Management Series.	Goodfellow Publishers, Limited.
	. , -				e Biz-Tech. Pearson Education.
	D./Smith, P. (2017): (content-related)	Digital Marketing Excell	lence: Planning, Op	timizing and Integra	ting Online Marketing. Taylor&Francis
-		d universally relevant ar	nd applicable. Com	panies from around t	he world will serve as example for ca
studies and practic	al examples.	•			
		e, notes on multiple			
Form of Examination		pe/Scope incl. Weigh			ves/Competencies to be Assessed
Module work (Mod	A) Developm	/ork in Groups nent of a digital marketi ve or real-life company	ng concept ar		sed to test the practical learning cont es, including teamwork and presental

International Marketing

						ber of Credits (ECTS)
	SEM3		Elective			5
Location	Language	Duration of Module	-	cy of Module		Number of Participants
/hb	English	One Semester	Depending on	availablility	Depending	g on availability
	Module Conven				ssor / Lecture	
Prof. Dr. Dirk Holtbrügge (vhb, Friedrich-Alexander-Universität Erlangen-Nürnberg) Prof. Dr. Dirk Holtbrügge (vhb, Friedrich-Alexander-Universität Erla					der-Universität Erlangen-	
Prerequisites*						
		ing and eCommerce				
* Note: Please al	so note the prere Usability	quisites according to the		ng Methods	ne respective	Workload
This module is part		up Basic Electives in the	Depending on		150h	WOIKIOau
		t Bachelor's program.	program			
	h other programs o	f the university has to	-			
	checked individua	lly.				
Learning Outcom	es					
earning Outcomes	completion of the	module, students will	have acquired	the following pro	ofessional, m	ethodological and
	d competencies:			5,00		. .
The participants	acquire detailed exp	pertise in the field of inter	national marketi	ng. Effective interna	ational marketii	ng is increasingly important
for companies du	le to rising internati	onal connectivity betweer	n countries and o	ompanies, and com	panies' need to	o grow by selling their
						ninology of the field and are
	states in a second to a first she as	field of intermetional manual		sinante understand	Ale a classification and a	of international marketing
and can indepen	dently develop solut	ions for problems to ques	stions of standar	lization and differe	ntiation in an ir	nternational context, of
and can indepen international man	dently develop solut ket entry, and of th	ions for problems to ques e design of the marketing	stions of standar g mix in an inter	dization and different ational context. Th	ntiation in an ir ey also unders	nternational context, of tand these aspects with
and can indepen international man regard to differen	dently develop solut rket entry, and of th nt industries (B2B, B	ions for problems to ques e design of the marketing 32C) and different countrie	stions of standar g mix in an interi es Special attent	lization and different ational context. The on is paid to the tra	ntiation in an ir ey also unders ansfer of theor	nternational context, of tand these aspects with etical contents to practical
and can indepen international man regard to differen examples. There	dently develop solut ket entry, and of th nt industries (B2B, I fore, different count	ions for problems to ques e design of the marketing 32C) and different countri- ry and company case stu-	stions of standar g mix in an intern es Special attent dies are included	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen international man regard to differen examples. There with interesting i	dently develop solut ket entry, and of th nt industries (B2B, B fore, different count nsights into the inte	ions for problems to ques e design of the marketing 32C) and different countrie	stions of standar g mix in an intern es Special attent dies are included	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen international man regard to differen examples. There	dently develop solut ket entry, and of th nt industries (B2B, B fore, different count nsights into the inte	ions for problems to ques e design of the marketing 32C) and different countri- ry and company case stu-	stions of standar g mix in an intern es Special attent dies are included	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to differen examples. There with interesting i Metropolitan Are	dently develop solut ket entry, and of th nt industries (B2B, B fore, different count nsights into the inte	ions for problems to ques e design of the marketing 32C) and different countri- ry and company case stu-	stions of standar g mix in an intern es Special attent dies are included	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are	dently develop solut ket entry, and of th nt industries (B2B, B fore, different count nsights into the inte a.	ions for problems to ques e design of the marketing 32C) and different countri- ry and company case stu-	stions of standar g mix in an intern es Special attent dies are included	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four	dently develop solut ket entry, and of the fore, different count nsights into the inter a.	tions for problems to quest e design of the marketing 32C) and different countrie try and company case study trnational marketing activit	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chal	dently develop solut ket entry, and of the fore, different count nsights into the inter a.	tions for problems to quest e design of the marketing 32C) and different countrie try and company case study and c	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra	dently develop solut ket entry, and of the fore, different count nsights into the inter a. Indations Ilenges and Opportur rnational Market Re tegies	tions for problems to quest e design of the marketing 32C) and different countri- try and company case study and c	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and different ational context. The on is paid to the tr in the form of vide	ntiation in an ir ey also unders ansfer of theor to interviews. T	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter a. Indations Ilenges and Opportur rnational Market Re tegies rnational Market En	tions for problems to quest e design of the marketing B2C) and different countri- try and company case study and c	stions of standar g mix in an intern es Special attent dies are included ities of several ir	dization and different ational context. The ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte Star	dently develop solut ket entry, and of the fore, different count nsights into the inter a. Indations Ilenges and Opportur rnational Market Re tegies rnational Market En indardization vs. Diffe	tions for problems to quest e design of the marketing 32C) and different countri- try and company case study and c	stions of standar g mix in an intern es Special attent dies are included ities of several ir	dization and different ational context. The ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte Star Inte	dently develop solut ket entry, and of the nt industries (B2B, B fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- idardization vs. Differ rnational Product Po-	tions for problems to quest e design of the marketing B2C) and different countrie try and company case stue rnational marketing activition inities of International Ma search try Strategies erentiation of International blicy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	dization and different ational context. The ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to differen- examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte Star Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- ndardization vs. Differ rnational Product Per- rnational Product Per- rnational Product Per- rnational Product Per-	tions for problems to quest e design of the marketing B2C) and different countrie try and company case stue rmational marketing activity unities of International Ma search try Strategies erentiation of International blicy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	dization and different ational context. The ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Course Content Four Chai Inte Stra Inte Star Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- idardization vs. Differ rnational Product Per- rnational Product Per- rnational Product Per- rnational Product Per- rnational Product Per- rnational Placement	tions for problems to quest e design of the marketing B2C) and different countrie try and company case stue rmational marketing activity unities of International Ma search try Strategies erentiation of International blicy Y Policy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	dization and different ational context. The ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Course Content Four Chai Inte Stra Inte Star Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- ndardization vs. Differ rnational Product Per- rnational Product Per- rnational Product Per- rnational Product Per-	tions for problems to quest e design of the marketing B2C) and different countrie try and company case stue rmational marketing activity unities of International Ma search try Strategies erentiation of International blicy Y Policy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	dization and different ational context. The ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte Star Inte Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- idardization vs. Differ rnational Product Per- rnational Per- rnationa	tions for problems to quest e design of the marketing B2C) and different countrie ry and company case stue rnational marketing activity unities of International Ma search try Strategies erentiation of Internationa blicy Y Policy Policy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and differe lational context. Th ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte Star Inte Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- idardization vs. Differ rnational Product Per- rnational Per- rnationa	tions for problems to quest e design of the marketing B2C) and different countrie try and company case stue rmational marketing activity unities of International Ma search try Strategies erentiation of International blicy Y Policy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and differe lational context. Th ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international mar regard to different examples. There with interesting i Metropolitan Are Course Content Four Chai Inte Stra Inte Star Inte Inte Inte Inte Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportu- rnational Market Re- tegies rnational Market En- idardization vs. Differ rnational Product Per- rnational Per- rnationa	tions for problems to quest e design of the marketing B2C) and different countrie ry and company case stue rnational marketing activity unities of International Ma search try Strategies erentiation of Internationa blicy Y Policy Policy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and differe lational context. Th ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international mar regard to differen- examples. There with interesting i Metropolitan Are Course Content Foun Chai Inte Stra Inte Star Inte Inte Inte Inte Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations Ilenges and Opportur rnational Market En- tegies rnational Market En- tedardization vs. Differ rnational Product Per rnational Per rn	tions for problems to quest e design of the marketing B2C) and different countrie ry and company case stue rnational marketing activity unities of International Ma search try Strategies erentiation of Internationa blicy Y Policy Policy	stions of standar g mix in an intern es Special attent dies are included ities of several ir	lization and differe lational context. Th ion is paid to the tr in the form of vide ternational compan	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte	nternational context, of tand these aspects with etical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international man regard to different examples. There with interesting i Metropolitan Are Course Content Foun Chai Inte Stra Inte Stra Inte Inte Inte Inte Inte Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportur rnational Market En- rnational Market En- rnational Market En- rnational Product Price Police rnational Product Price Police rnational Product Price rnational Price Police rnational Product Price rnational Product Price rnational Product Price rnational Price rnational Product Price rnational Product Price rnational Price rnational Product Price rnational Price rnational Product Price rnational Product Price rnational Price rnation	tions for problems to quest e design of the marketing B2C) and different countrie ry and company case stue rnational marketing activity unities of International Ma search try Strategies erentiation of Internationa blicy Y Policy Policy	stions of standar g mix in an interness Special attent dies are included ities of several ir arketing Methods al Marketing Polici n/kursprogramm	lization and differe lational context. The in is paid to the tra- in the form of vide ternational compar- ies: International N jsp?kDetail=true&d	ntiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte farketing Mix	nternational context, of tand these aspects with etical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international mar regard to differen- examples. There with interesting i Metropolitan Are Course Content Foun Chai Inte Stra Inte Star Inte Inte Inte Inte Inte Inte Inte Inte	dently develop solut ket entry, and of the fore, different count nsights into the inter- a. Indations llenges and Opportur rnational Market Re- tegies rnational Market En- ndardization vs. Differ- rnational Market En- rnational Product Pr rnational Pr rnational	ions for problems to ques e design of the marketing B2C) and different countrie rry and company case stue rnational marketing activition inities of International Ma search try Strategies erentiation of International blicy Y Policy HBPORTAL/kursprogramn	stions of standar g mix in an interness Special attent dies are included ities of several ir arketing Methods al Marketing Policion n/kursprogramm	lization and different ational context. The in is paid to the tra- in the form of vide ternational compare ies: International N jsp?kDetail=true&context of examination - A	APO §9a)	nternational context, of tand these aspects with retical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international mar regard to differen- examples. There with interesting i Metropolitan Are Course Content Foun Chai Inte Star Inte Star Inte Inte Inte Inte Inte Inte Inte Inte	dently develop solut ket entry, and of the het industries (B2B, B fore, different count nsights into the inter- a. Indations Ilenges and Opportur rnational Market Re- tegies rnational Market En- idardization vs. Differ- rnational Product Price Police rnational Promotion I / Reading s://kurse.vhb.org/V (content-related) vant topics sment (if applicab htion*1) Ty	tions for problems to quest e design of the marketing B2C) and different countrie rry and company case stue rrnational marketing activition inities of International Ma search try Strategies erentiation of International blicy Y Policy Policy HBPORTAL/kursprogramn	stions of standar g mix in an internet es Special attent dies are included ities of several ir arketing Methods al Marketing Poli- m/kursprogramm choice as form ing *2)	dization and different ational context. The ion is paid to the tra- in the form of vide ternational compare dies: International N isp?kDetail=true&d of examination - A Learning Object	htiation in an ir ey also unders ansfer of theor to interviews. T ies headquarte farketing Mix COURSEID=140 COURSEID=140 APO §9a) tives/Compe	nternational context, of tand these aspects with retical contents to practical The participants are provide ered in the Nürnberg
and can indepen- international mar regard to differen- examples. There with interesting i Metropolitan Are Course Content Foun Chai Inte Stra Inte Stra Inte Inte Inte Inte Inte Inte Inte	dently develop solut ket entry, and of the het industries (B2B, B fore, different count nsights into the inter- a. Indations Ilenges and Opportur rnational Market Re- tegies rnational Market En- idardization vs. Differ- rnational Product Price Police rnational Promotion I / Reading s://kurse.vhb.org/V (content-related) vant topics sment (if applicab htion*1) Ty	ions for problems to quese e design of the marketing B2C) and different countrierry and company case stur- rry and company case stur- rrnational marketing activition inities of International Ma search try Strategies erentiation of International blicy Y Policy HBPORTAL/kursprogramn	stions of standar g mix in an internet es Special attent dies are included ities of several in arketing Methods al Marketing Poli- m/kursprogramm choice as form ing *2) see vhb	dization and different ational context. The ion is paid to the tra- in the form of vide ternational compare dies: International N dies: International N dies: International N dies: Internation - A dies: Internation - A Learning Object The entire learning	APO §9a) tives/Competitions	nternational context, of tand these aspects with retical contents to practical The participants are provide ered in the Nürnberg

People Analytics: Data Science for Human Resources Management						
Classification	Module ID	ĸ	Kind of Module		Number of Credits (ECTS)	
	SEM4		Elective		5	
Location	Language	Duration of Module	Frequency of M	odule	Max. Number of Participants	
vhb	English	One Semester	Winter and Summer		Depending on availability	
	Module Convend	r		Professo	or / Lecturer	
Prof. Dr. Sven Laum	her		Prof. Dr. Sven Laumer			
Prerequisites*						
* Note: Please als	so note the prereq	uisites according to t	he examination regula	tions in the	respective valid SPO version.	
	Usability		Teaching Met		Workload	
Digital Technolog	gy and Management	the university has to	Depending on the resp program	ective	150h	
Learning Outcom	es					
and to predict devel In a final project we on independently co Course Content	lopments. ork, various question	s from the application ar	,	re examined a	and complex interrelationships of effects, and practically processed. The focus is	
Part B: 4. Personnel Plannir 5. Sourcing and Acc 6. Onboarding and 7. Well-Being Analy	Data Science tion of People Analyi ng Analytics quisition Analytics Performance Analytic tics					
8. Turnover Analytic Teaching Materia						
	e vhb					
Internationality (content-related)						
internationally relevant topics						
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)						
Form of Examina		e/Scope incl. Weight			ves/Competencies to be Assessed	
Module Work (Mod	A) Project we	ork / Seminar paper			ntents and competence profiles are e aforementioned examination form.	

Classification	Module ID	K	Kind of Module			edits (ECTS)
	SEM5		Elective		5	;
Location	Language	Duration of Module	Frequenc	y of Module	Max. Number o	of Participants
vhb	English	One Semester	Winter and Sum	mer	Depending on availa	ability
	Module Conven	or		Profes	sor / Lecturer	
Prof. Dr. Markus B	eckmann (provisiona))	Prof. Dr. Markus	Beckmann (provi	sional)	
Prerequisites*						
* Note: Please a	•	quisites according to t		-	•	
This medula is not	Usability	n Basis Electives in the		g Methods	Work	load
Digital Technolo	gy and Management	IP <i>Basic Electives</i> in the Bachelor's program. The university has to Ily.	Depending on the program	ie respective	150h	
Learning Outcom	ies					
from digitalization property and po insights into the entrepreneurshi	on. Focusing on the f rtrays their historic b	ative minds may benefit s undamental basics, this in ackaround. Theory and c	ntroductory course	e provides an over	view of the different type	
<u> </u>		ctual property rights with , and the digital economy	in the business co			tice. Besides
	p, emerging markets	ctual property rights with	in the business co			tice. Besides
 General Informa IP Basics History and Orig Copyrights and I Patents & Co. Trademarks Case Study IPR and the Bus New Trends in I Group Assignm 	p, emerging markets ition ins Designs iness Life PR ient	ctual property rights with	in the business co			tice. Besides
 General Informa IP Basics History and Orig Copyrights and I Patents & Co. Trademarks Case Study IPR and the Bus New Trends in I Group Assignm Teaching Materia 	p, emerging markets ition ins Designs iness Life PR ient al / Reading	ctual property rights with	in the business co			tice. Besides
 General Informa IP Basics History and Orig Copyrights and I Patents & Co. Trademarks Case Study IPR and the Bus New Trends in I Group Assignm Teaching Materia 	p, emerging markets ition ins Designs iness Life PR ient	ctual property rights with	in the business co			tice. Besides
1. General Informa 2. IP Basics 3. History and Orig 4. Copyrights and I 5. Patents & Co. 6. Trademarks 7. Case Study 8. IPR and the Bus 9. New Trends in I 10. Group Assignm Teaching Materia	p, emerging markets ition ins Designs iness Life PR ient al / Reading	ctual property rights with	in the business co			tice. Besides
1. General Informa 2. IP Basics 3. History and Orig 4. Copyrights and I 5. Patents & Co. 6. Trademarks 7. Case Study 8. IPR and the Bus 9. New Trends in I 10. Group Assignm Teaching Materia Se Internationality	p, emerging markets ition ins Designs iness Life PR ent al / Reading e vhb (content-related)	ctual property rights with	in the business co			tice. Besides
1. General Informa 2. IP Basics 3. History and Orig 4. Copyrights and I 5. Patents & Co. 6. Trademarks 7. Case Study 8. IPR and the Bus 9. New Trends in I 10. Group Assignm Teaching Materia Se Internationality	p, emerging markets ition ins Designs iness Life PR ient al / Reading e vhb (content-related) vant topics	ctual property rights with	in the business co	ntext, thematic ex	ccursions will dive into a	tice. Besides
6. Trademarks 7. Case Study 8. IPR and the Bus 9. New Trends in I 10. Group Assignm Teaching Materia Se Internationality internationally rele	p, emerging markets ition ins Designs iness Life PR eent al / Reading e vhb (content-related) vant topics sment (if applicab	ctual property rights with , and the digital economy	hoice as form of	ntext, thematic examination - A	ccursions will dive into a	tice. Besides reas of

Practical Project						
Classification	Module ID	ĸ	(ind of Modul	e	Number of Credits (ECTS)	
	SEPP		Elective	•	5	
Location	Language	Duration of Module	-	ency of Module	Max. Number of Participants	
tbd	English	One Semester	Depending o	n availablility	30 There is neither a claim to actual realization of the module nor to participation	
	Module Convend	r			ssor / Lecturer	
Prof. Dr. Julia Heigl			respective p	rofessor overseeing th	ne project	
Prerequisites*			1			
Please check AVIS	S-Module in Mood	n advance with the po le for available projec uisites according to tl	ts.		e. he respective valid SPO version.	
	Usability			hing Methods	Workload	
Digital Technolog	y and Management	the university has to	Depending o program	n the respective	150h	
Learning Outcomes	es					
personal skills and	d competencies:	nodule, students will owledge to a pratical pro	-		ofessional, methodological and y and/or management	
Course Content						
Depending on the ty	pe of project					
Teaching Materia	l / Reading					
Will be provided						
Internationality (content-related)						
internationally relevant topics						
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)						
Form of Examina	tion ^{*1)} Typ	e/Scope incl. Weight	ing ^{*2)}	Learning Objec	tives/Competencies to be Assessed	
Module work (ModA	lecturer	ll be provided by the res	pective		contents and competence profiles are the aforementioned examination form.	

Practical Phase

Classification Module 10 Kind of Module Number of Credits (ECTS) 2.1 Mandatory 25 Location Language Duration of Module Frequency of Module Max. Number of Participants Location of the company / organization Determined by place and company of the particle phase One Semester Offered each semester Max. Number of Participants Prof. Dr. Julia Heigi Prerequisites* Successful completion of all modules of study section 1 and German level 82.2 * Net Participants Successful completion of the internship semester is a prerequisites or the prerequisites according to the examination regulations in the respective valid SPO version. Effort for internship: Duration 20 work. Successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies: Pactical phase Effort for internship: Duration 20 work. After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies: Pactical phase Effort for internship: Duration 20 work. Students have gained insight into a company's value creation processes through independent work in iplanning, organisation or control tasks or participation in projects. Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic stu	Internship					
Location Language Duration of Module Frequency of Module Max. Number of Participants Location of the company of the Peteral and Company nd Completion of the internship semester is a preculation of the internship semester is a preculation of the internship semester is a preculation for the backelor's thesis. University-wide applicability: The usual in the company for full-time work. Petical phase Effort for internship. Duration 20 weeks in the company of full-time work. Applicability: The usual in the company for full-time work. Petical phase Effort for internship. Duration 20 weeks in the company of full-time work. Applicability: The usual in the company of full-time work. Petical phase Effort for internship. Company of full-time work. Learning Outcomes: Teaming Outcomes: Teaming Outcomes: Environmental and the company's value creation processes through independent work in planning, organisation or control takks or participation in projects. Environmental and conversed in the theoretic studies. Course Content - Independent work on projects and problems, the topics of which are dosely related to the completed studies or represent a valu	Classification		K		e	
Internation of the company / organization Determined by company of the practical phase Offered each senester organization Determined by precision of the Semester company of the practical phase Offered each semester Module convexor Professor / Lecturer Precequisites* Successful completion of all modules of study section 1 and German level B2.2 * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Applicability in the further course of studies: Successful completion of the internship semester is a prerequisite for registration for the bachelor's thesis. Inversity-wide applicability: The successful completion of the internship semester is a precapitability in the study programs must be checked in each individual case. Learning Outcomes Affer successful completion of the internship semester. Affer successful completion of no file internship semester is a precapitability in other study programs must be checked in each individual case. Learning Outcomes Affer successful completion of the internship semester. Affer successful completion of no intermaprices. Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content - - - Independent work on projects and problems, the topics of which are dosely related to the comp		/.1		i landatoi y		23
company / organization prace and company of the practical phase Professor / Lecturer Module Convenor Professor / Lecturer Professor / Lecturer Precequisites* Successful completion of all modules of study section 1 and German level B2.2 * * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Effort for internship: Duration 20 weeks in the company with a working time usual in the company with a working time usual in the company with a working time usual in the company for full-time work. Applicability in other study programs must be checked in each individual case. Pactical phase Effort for internship: Duration 20 weeks in the company with a working time usual in the company for full-time work. After successful completion of the induce, students will have acquired the following professional, methodological and personal skills and competencies: Applicability in to a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. • Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content • Guideline for the practical study senseter for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Course Content • Guideline for the practical study senseter for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Courideline for	Location	Language		Frequ	ency of Module	Max. Number of Participants
Module Convenor Professor / Lecturer Prof. Dr. Julia Heigi Professor / Lecturer Prerequisites* Successful completion of all modules of study section 1 and German level B2.2 * * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Workload Applicability in the further course of studies: Pactical phase Effort for internship: Durstion 20 weeks in the company with a working three usual in the toophelos's thesis. Presultation of the internship senset: Pactical phase Effort for internship: Durstion 20 weeks in the company with a working three usual in the company with a working three usual in the company with a working three usual in the company with a working three usual in the company for full-time work. Note: Blease duration: Marking and three duration of the module, students will have acquired the following professional, methodological and personal skills and completencies: - Students have agained insight into a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. - Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. - Course Content - - Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. - Application and	company /	place and company of the	One Semester	Offered each	i semester	
Prerequisites* Successful completion of all modules of study section 1 and German level B2.2 * Note: Please also note the prerequisites according to the examination regulations in the respective valid SPO version. Applicability in the further course of studies: Successful completion of the internship sensetsr is a prerequisite for registration for the bachelor's thesis. University-wide applicability: The usability in other study programs must be checked in each individual case. Pactical phase Effort for internship: Duration 20 weeks in the company with a working time usual in the company of roll-time work. Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies: • Students have gained insight into a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. • Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content • Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable didition. • Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Teaching Material / Reading • Guideline for the practical semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Training infor the practical			or		Profess	sor / Lecturer
Applicability in the further course of studies: Pactical phase Effort for internship: Duration 20 Successful completion of the internship semester is a prevenuish for registration for the bachelor's thesis. Pactical phase Effort for internship: Duration 20 University-wide applicability: The sublity in other study programs must be checked in each individual case. Pactical phase Effort for internship: Duration 20 Learning Outcomes Example duration of the module, students will have acquired the following professional, methodological and personal skills and competencies: Pactical phase Effort for internship can be compared to a study of the company with a work in planning, organisation or control tasks or participation in projects. • Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Ecurse Content • Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. • Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Eaching Material / Reading • Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Training plan for the practical study semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente <td< th=""><th>Prerequisites* Successful comple</th><th></th><th></th><th></th><th></th><th>e respective valid SPO version.</th></td<>	Prerequisites* Successful comple					e respective valid SPO version.
Successful completion of the internship semester is a prerequisite for registration for the bachelor's thesis. University-wide applicability: The usability in other study programs must be checked in each individual case. Learning Outcomes Learning Outcomes Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content - Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. - Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. - Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health - Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health - Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health - Training plan for the practical semester in the Bachelor's degree programmes of the Fac		Usability	-		-	Workload
Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies: • Students have gained insight into a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. • Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content - Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. - Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Teaching Material / Reading • Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Training plan for the practical study semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examinat	Successful completio prerequisite for regis University-wide appli The usability in othe	orther course of stud on of the internship stration for the bach icability:	semester is a elor's thesis.			weeks in the company with a working time usual in the company for full-time
Learning Outcomes After successful completion of the module, students will have acquired the following professional, methodological and personal skills and competencies: • Students have gained insight into a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. • Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content - Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. - Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Teaching Material / Reading • Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Training plan for the practical study semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examinat	Learning Outcome					
personal skills and competencies: Students have gained insight into a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content Internationality (content-related) Students work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Teaching Material / Reading Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*¹¹ Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report Internship report with the rating "pas	Learning Outcomes					
 Students have gained insight into a company's value creation processes through independent work in planning, organisation or control tasks or participation in projects. Students have applied and reflected on knowledge, methods and procedures which have been taught in the theoretic studies. Course Content Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination^{*1} Type/Scope incl. Weighting ^{*2} Learning Objectives/Competencies to be Assessed Internship report is reviewed by the supervisors of the 			nodule, students will	have acquire	d the following pro	fessional, methodological and
- Independent work on projects and problems, the topics of which are closely related to the completed studies or represent a valuable addition. - Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Teaching Material / Reading • Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report Internship report with the rating "passed" (the report is used to assess the overall learning content and competency profiles.	 Students have a tasks or particip Students have a 	gained insight into a pation in projects.		·	U	
addition. - Application and deepening of knowledge, methods and procedures already gained, which are taught and conveyed in the theoretic studies. Teaching Material / Reading • Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health • Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination *1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report The internship report with the rating "passed" (the report is reviewed by the supervisors of the report is reviewed by the supervisors of the report is not complete.	Course Content					
 Guideline for the practical study semester for the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report with the rating "passed" (the report is reviewed by the supervisors of the 	addition.					·
Training plan for the practical semester in the Bachelor's degree programmes of the Faculty of Industrial Engineering and Health Documents available at: https://www.oth-aw.de/myoth/studiengangsdokumente Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1 Internship report with the rating "passed" (the report is reviewed by the supervisors of the	Teaching Material	/ Reading				
Internationality (content-related) Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report Internship report with the rating "passed" (the report is reviewed by the supervisors of the	Training plan fo	or the practical seme	ester in the Bachelor's de	egree program	mes of the Faculty of I	5 5
Students who have acquired their university entrance qualification outside Germany are recommended to complete the internship in Germany, ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report Internship report with the rating "passed" (the report is reviewed by the supervisors of the	Documents available	at: https://www.ot	n-aw.de/myoth/studieng	Jangsdokumen	le	
ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country. Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a) Form of Examination*1) Type/Scope incl. Weighting *2) Learning Objectives/Competencies to be Assessed Internship report Internship report with the rating "passed" (the report is reviewed by the supervisors of the	Internationality (content-related)					
Form of Examination*1)Type/Scope incl. Weighting *2)Learning Objectives/Competencies to be AssessedInternship reportInternship report with the rating "passed" (the report is reviewed by the supervisors of the content and competency profiles.The internship report is used to assess the overall learning content and competency profiles.	ideally in a company with an international orientation. German students are recommended to complete the internship in a non-German speaking country.					
Internship report Internship report with the rating "passed" (the report is reviewed by the supervisors of the The internship report is used to assess the overall learning content and competency profiles.	method of Assessi		e, notes on multiple c	noice as forn	i of examination - A	ru gyd)
Internship report report is reviewed by the supervisors of the content and competency profiles.	Form of Examinat	tion ^{*1)} Typ	e/Scope incl. Weighti	ing ^{*2)}	Learning Object	tives/Competencies to be Assessed
	Internship report	report is r	eviewed by the supervise			

Bachelor Thesis

Bachelor Thesis							
Classification	Module ID	ŀ	Kind of Module	Number of Credits (ECTS)			
	8.1		Mandatory	10			
Location	Language	Duration of Module	Frequency of Module	Max. Number of Participants			
Not location- bound	English or German	Refer to SER	According to study progress	1			
	Module Conveno	r		essor / Lecturer			
Exam committee cha	air		First and second supervisor or fir	rst reviewer			
Prerequisites*							
Furthermore, the gui must be observed. T	idelines of the Facult 'he current version is o note the prerequ	available on the OTH_	ring and Healthcare "Wissenschaftli Homepage under myOTH. he examination regulations in t	iches Arbeiten: Preparation of a Thesis" the respective valid SPO version. Workload			
Bachelor Thesis in th	Usability he study program Di	ogital Technology and	Teaching Methods Bachelor Thesis	300 h			
Management. The u		dy programs must be		500 11			
Learning Outcome	S						
Learning Outcomes							
personal skills andIndependent med	competencies:	n of a practice-relevant,		rofessional, methodological and programme-related environment and written			
Course Content							
Depending on the ta	sk						
Teaching Material	/ Reading						
Own research							
Internationality (c	content-related)						
choice of an internationally relevant topic and/or company							
Method of Assessment (if applicable, notes on multiple choice as form of examination - APO §9a)							
Form of Examinat	ion ^{*1)}	Type/Scope inc	l. Weighting ^{*2)}	Learning Objectives/Competencies to be Assessed			
Bachelor Thesis	the first ex Regulation examination regulations and Health	kaminer. As for processing are cor on regulations as well as s. The guidelines of the incare "Scientific work: P The current version is p	ter individual consultation with ntained in the study program and s in the general examination Faculty of Industrial Engineering Preparation of a Thesis" must be provided on the OTH homepage	Depending on the specific task, the above- mentioned competencies are tested via the bachelor thesis.			