

## Dieses Wahlpflichtmodul ist ein Angebot der:

## Fachhochschule Dortmund

**Master Digital Transformation** 

University of Applied Sciences and Arts

## Scientific & Transversal Skills 2

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Fachhochschule Dortmund University of Applied Sciences and Arts







Code Number Workload		Credits	Semester	Frequency	Duration		
	48090/91	180 h	6	2	summer semes	ter 1 Semester	
1	Со	urse Title	Conta	act hours	Self-Study	Planned Group	
	Scientific & Skills 2	Transversal	4 SW	/S / 60 h	120 h	Size 25 students	
2	Course Description						
	intended to more applic compact co selection of	prepare studen cation-oriented p ourses worth 6 E	ts for both a bath with inte CTS in total d based and	scientific path ernships and t on topics rele will be asses	and transversal skills t in in the third and four heses in industry. Stu evant for the further st sed by interviewing th	th semester or for a idents select tudy program. The	
3	Course Structure						
	In the initial set up of the master a selection of 8 compact courses are offered. More can be added according to the analysis of the needs of actual students:						
	1. Compact Course on Business Models and Business Cases						
	<ol> <li>Compact Course on Business Models and Business Cases</li> <li>IT Tools for Projects (Redmine, Jira, Confluence)</li> </ol>						
	3. Mini Projects (Group Projects, with other Master's programmes)						
	4. Research Methods and Tools – part B (RMT-B) (Research Design, Tools, Databases,						
	Publishing) 5 International Negotiation & Conflict Management (English)						
	<ol> <li>International Negotiation &amp; Conflict Management (English)</li> <li>Engineering Communication 1 (German A2, or other foreign language for Germans)</li> </ol>						
4	Application Focus						
	Depending on choice of courses						
5	Scientific Focus						
	Depending on choice of courses						
6	Parameters						
	• ECTS: 6						
	Hours of study in total: 180						
	Weekly hours per semester: 4     Contact hours: 60						
	<ul> <li>Contact hours: 60</li> <li>Self-Study hours: 120</li> </ul>						
	Course characteristics: compulsory						
	<ul> <li>Course frequency: every year – summer semester</li> </ul>						
	Maximal capacity: 25 students						
		urse admittance		es: none			
	<ul> <li>Ski</li> </ul>	Ils trained in this	s course:				

	<ul> <li>Assessment of the course: Depending on choice of courses</li> <li>Teaching staff: Prof. Dr. Rolf Schuster, PhD students of IDiAL for compact courses, external Professor from partner university for "Research Methods and Tools – part B (RMT-B)", language trainers and coaches e.g. from Auslandsgesellschaft</li> </ul>				
7	<ul> <li>Learning outcomes</li> <li>7.1 Knowledge <ul> <li>Knows the foundations of each topic at least up to bachelor knowledge</li> </ul> </li> <li>7.2 Skills</li> </ul>				
	<ul> <li>Can apply the knowledge in the upcoming master courses</li> <li>7.3 Competence – attitude</li> </ul>				
	Can assess the gaps in own knowledge				
	• Can use a variety of tools, online-courses, tutorials to close the gap in own responsibility				
8	Teaching and training methods				
	Compact courses will follow a similar structure:				
	<ul> <li>1 day introduction at the end of the first semester, mini-tests to assess the prior knowledge and to define the gap. Definition of the training need and selection of trainings an exercises</li> </ul>				
	- 0,5 day assessment and tutorial in the week before summer school				
	- Tutorials on each Friday throughout the whole semester				
	- Access to e-learning modules and MOOCs for each topic				
	- Literature recommendations and provision of exercises				
	- Submission of homework for assessment and advice by tutors				
	Language and communication trainings will be done on a weekly basis, e.g. Monday afternoon + evening (in connection with external trainers, e.g. from Auslandsgesellschaft)				
9	Course mapping				
	Input for:				
	Depending on choice of courses				
	Input from:				
	MOD1-05 – Scientific & Transversal Skills 1				
10	References				
	Depending on choice of courses, for example:				
	<ol> <li>Compact Course on Business Models and Business Cases         <ul> <li>The Business Models Handbook: Templates, Theory and Case Studies, Paul Hague, Kogan Page, 2019</li> <li>Business Model Canvas A Complete Guide - 2020 Edition, Gerardus Blokdyk, 5starcooks, 2020</li> </ul> </li> </ol>				
	2. IT Tools for Projects (Redmine, Jira, Confluence)				

<ul> <li>Atlassian Confluence 5 Essentials, 2013</li> <li>Jira 8 Essentials: Effective issue management and project tracking with the latest Jira features, 5th Edition, Packt publishing, 2019</li> <li>Redmine A Complete Guide - 2019 Edition, Gerardus Blokdyk, 5StarCooks,</li> </ul>
2019
Mini Projects (Group Projects, with other Master's programmes)
<ul> <li>Research Methods and Tools – part B (RMT-B) (Research Design, Tools, Databases, Publishing)</li> </ul>
<ul> <li>Research Methods: A Tool for Life, Bernard C. Beins, Cambridge University Press, 4<sup>th</sup> Edition, 2018</li> </ul>
International Negotiation & Conflict Management (English)
Engineering Communication 1 (German A2, or other foreign language for Germans)