Double-Degree: Management and Computer Science - 1. Semester in Germany, 2. Semester elective abroad, 3. Semester abroad, 4. Semester Master Thesis

Semester at WHZ

WS	1. Semester	Module	Language	ECTS	Lecturing hours 1 = 45 minutes
		Management and Computer Science – compulsory courses	**E**	**20**	
	PTI90230	**Programming Paradigms**	E	5	3
	WIW64000	**Business Information Systems**	E	5	4
	WIW32090	**Risk Management and Management Control**	E	5	4
	WIW03750	**Training of Language, Research and Intercultural Skills**	E	5	4
		Elective Courses - winter term **Elective Digital Courses - winter term** ***choose courses for 10 ECTS**	**E**	**10**	
		Elective methodologic courses - Computer Science	**E**		
	PTI90300	Science Communication	E	5	2
	PTI90190	Computer Science Project	E	5	2
	PTI90180	Car-to-Car Communication	E	5	3
	PTI90220	Advanced Computer Graphics	E	5	4
		Elective methodologic courses - Business & Information Systems	**E**		
	WIW64010	Digital Business Models	E	5	4
	WIW00390	Change Management	E	5	1.5
		Elective methodologic courses - Management	**E**		
	WIW31500	Managerial Challenges in the Globalized Economy	E	5	4
	WIW65540	International Human Resource Management	E	5	2
	WIW08520	Managing Intercultural Collaboration	E	5	4
		Total		**30**	

Semester at WHZ

SS	2. Semester	Module	Language	ECTS	Lecturing hours 1 = 45 minutes
		Management and Computer Science	**E**	**15**	
PTI90290		**Machine Learning**	E	5	4
WIW64031		**Analytics for Data Driven Decisions**	E	5	4
WIW32530		**Advanced Fields of Management**	E	5	8
		Elective Courses - summer term **Elective Digital Courses - summer term** ***choose courses for 15 ECTS**	E	15	
		Elective methodologic courses - Computer Science	**E**		
PTI90190		Computer Science Project	E	5	2
PTI90300		Science Communication	E	5	2
PTI90080		Large Scale Data Processing	E	5	3
		Elective methodologic courses - Business & Information Systems	**E**		
WIW64021		Internet of Things (Digitale Technologien)	E	5	4
WIW34060		Information & Knowledge Management	E	5	4
WIW30610		Research Project Work I	E	5	4
		Elective methodologic courses - Management	**E**		
WIW32040		Business Monitoring Systems and Internal Audit	E	5	4
WIW67500		Business Cultures	E	5	4
SPR06590		Global Business and Project Communication in English	E	5	4
		Elective Study Abroad - crediting Applied Informatics	**E**	**10**	
		Elective Study Abroad - crediting Business & Information Systems	**E**	**10**	
		Elective Study Abroad - crediting Management	**E**	**10**	
		Total		**30**	

Abroad Semester at one of the partnering institutions

WS	3. Semester	Module	Language	ECTS	Lecturing hours 1 = 45 minutes
		Management and Computer Science **Obligatory Study Abroad Semester**	**E**	**15**	
PTI90310		**Design and Implementation of Software Systems**	**E**	**5**	**4**
WIW34170		**Digital Business Modelling**	**E**	**5**	**4**
WIW35010		**Strategic Management**	**E**	**5**	**4**

		Study Abroad: Elective Subjects			
		*choose courses for 15 ECTS			
	WIW30690	**International Coaching Project**	**E**	**5**	**1**
		Elective Courses - ASUE	**E**	**15**	
		Elective Courses - IBSU	**E**	**15**	
		Elective Courses - INAI.kg	**E**	**15**	
		Elective Courses - KAFU	**E**	**15**	
		Total		**30**	

Elective Abroad Semester at one of the partnering institutions

SS	4. Semester	Module	Language	ECTS	Lecturing hours 1 = 45 minutes
	WIW30650	Master Thesis	E	25	
	WIW34021	Titan Talks	E	5	2
		Summe		**30**	
		Gesamt-ECTS	**120**		

International Black Sea University (IBSU)

Tbilisi, Georgia

Assoc.Prof. Marina Razmadze, PhD - mrazmadze@ibsu.edu.ge

1. Semester	Module Name in Curriculum	Existing Course at IBSU which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
IBSU	**Compulsory Study Abroad at University of Applied Sciences Zwickau - Transcript of Records will be provided from WHZ and accredite by IBSU**		**E**	**30**	

2. Semester	Module Name in Curriculum	Existing Course at IBSU which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		**E**	**15**	
IBSU	**Machine Learning**	**Logic for Computer Science and Artificial Intelligence**	E	5	4
IBSU	**Analytics for Data Driven Decisions**	**Data Mining and Analysis**	E	5	4
IBSU	**Advanced Fields of Management**	**Operations and Supply Chain Management**	E	5	8
	Elective Courses - summer term		**E**	**15**	
	Elective methodologic courses - Computer Science				
IBSU	Models of Computation		E	5	4
IBSU	Advanced Algorithms		E	5	3
IBSU	Computer Networks and Security		E	5	3

IBSU	Numerical Analysis		E	5	3
	Elective methodologic courses - Business & Information Systems				
IBSU	Artificial Intelligence Applications		E	5	3
IBSU	Human-Machine Interaction		E	5	3
IBSU	Deep Reinforcement Learning		E	5	3
	Elective methodologic courses - Management				
IBSU	Research Methods for Business		E	5	4
IBSU	Advanced Project Management		E	5	3

3. Semester	Module Name in Curriculum	Existing Course at IBSU which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		**E**	**15**	
IBSU	**Design and Implementation of Software Systems**	**Distributed Application Development**	E	5	4
		Computer Algebra			
IBSU	**Digital Business Modelling**	**Digital Business Modeling**	E	5	4
IBSU	**Strategic Management**	**Strategic Management**	E	5	4
	Elective Courses - winter term Elective Digital Courses - summer term *choose courses for 15 ECTS		**E**	**15**	
	Elective methodologic courses - Computer Science				

IBSU	Models of Computation		E	5	4
IBSU	Advanced Algorithms		E	5	3
IBSU	Computer Networks and Security		E	5	3
IBSU	Numerical Analysis		E	5	3
Elective methodologic courses - Business & Information Systems					
IBSU	Artificial Intelligence Applications		E	5	3
IBSU	Human-Machine Interaction		E	5	3
IBSU	Deep Reinforcement Learning		E	5	3
Elective methodologic courses - Management					
IBSU	Research Methods for Business		E	5	4
IBSU	Advanced Project Management		E	5	3
IBSU	Leadership Strategies		E	5	3
IBSU	**International Coaching Project**		E	5	1

4. Semester	Module Name in Curriculum	Existing Course at IBSU which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
IBSU	**Master Thesis**		**E**	**25**	
IBSU	**Titan Talks**		**E**	**5**	**2**

Total		
Total-ECTS	120	

Armenian State University of Economics (ASUE)
Yerevan, Armenia
Prof. Sos Khachikyan, PhD - sos.khachikyan@gmail.com

1. Semester	Module Name in Curriculum	Existing Course at ASUE which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
ASUE	**Compulsory Study Abroad at University of Applied Sciences Zwickau**		**E**	**30**	

2. Semester	Module Name in Curriculum	Existing Course at ASUE which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		**E**	**15**	
ASUE	**Machine Learning**	**Machine Learning**	E	5	4
ASUE	**Analytics for Data Driven Decisions**	**Econometrics and Data Analy**	E	5	4
ASUE	**Advanced Fields of Management**	**Entrepreneurship and Startup**	E	5	8
	Elective Courses - summer term **Elective Digital Courses - summer term** ***choose courses for 15 ECTS**		E	15	
	Elective methodologic courses - Computer Science				
ASUE	Python Programming		E	5	4
ASUE	Research Methods in Data Science		E	5	4
	Elective methodologic courses - Business & Information Systems				
ASUE	Neural Networks and Deep Learning		E	5	4
ASUE	Business Statistics		E	5	4
	Elective methodologic courses - Management				
ASUE	Decision Making Process		E	5	6

	Management Theory – Modern Issues		E	5	4
ASUE	Management Theory – Modern Issues		E	5	4

3. Semester	Module Name in Curriculum	Existing Course at ASUE which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		**E**	**15**	
ASUE	**Design and Implementation of Software Systems**	Web Technologies	E	5	4
ASUE	**Digital Business Modelling**	Digital Business Modelling	E	5	4
ASUE	**Strategic Management**	Strategic Management	E	5	4
	Elective Courses - winter term **Elective Digital Courses - summer term** ***choose courses for 15 ECTS**		**E**	**15**	
	Elective methodologic courses - Computer Science				
ASUE	Python Programming		E	5	4
ASUE	Research Methods in Data Science		E	5	4
	Elective methodologic courses - Business & Information Systems				
ASUE	Neural Networks and Deep Learning		E	5	4
ASUE	Business Statistics		E	5	4
	Elective methodologic courses - Management				
ASUE	Digital Marketing		E	5	4
ASUE	Decision Making Process		E	5	6
ASUE	Management Theory – Modern Issues		E	5	4
ASUE	**International Coaching Project**		E	5	1

4. Semester	Module Name in Curriculum	Existing Course at ASUE which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
ASUE	**Master Thesis**		**E**	**25**	
ASUE	**Titan Talks**		**E**	**5**	**2**

Total

Total-ECTS	120

Kyrgyz German INstitute of Applied Informatics (INAI.kg)

Bishkek, Kyrgyzstan

Aida Asanova - aida09@bk.ru ; Prof. Aida Tolognova, PhD - aida.tolognova.7

1. Semester	Module Name in Curriculum	Existing Course at INAI.kg which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
INAI.kg	**Compulsory Study Abroad at University of Applied Sciences Zwickau**		**E**	**30**	

2. Semester	Module Name in Curriculum	Existing Course at INAI.kg which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		**E**	**15**	
INAI.kg	**Machine Learning**	**Machine learning**	E	5	4
INAI.kg	**Analytics for Data Driven Decisions**	**Big data management**	E	5	4
INAI.kg	**Advanced Fields of Management**	**Agile Project Management**	E	5	8
	Elective Courses - summer term		E	15	
	Elective methodologic courses - Computer Science				
INAI.kg	Enterprise Application Development		E	5	4
	Elective methodologic courses - Business & Information Systems				
INAI.kg	Legal aspects		E	5	4
INAI.kg	Business processes in software development		E	5	4
	Elective methodologic courses - Management				

INAI.kg	Business plan		E	5	4
INAI.kg	Startup coaching		E	5	4
INAI.kg	Philosophical problems of science		E	5	4
INAI.kg	Advanced Marketing		E	5	4

3. Semester	Module Name in Curriculum	Existing Course at INAI.kg which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		**E**	**10**	
INAI.kg	**Design and Implementation of Software Systems**	**Systems development and maintenance**	E	5	4
INAI.kg	**Digital Business Modelling**	**Technology and business modeling**	E	5	4
INAI.kg	**Strategic Management**	**Strategic Management and Leadership**	E	5	4
	Elective Courses - winter term		**E**	**15**	
	Elective methodologic courses - Computer Science				
INAI.kg	Enterprise Application Development		E	5	4
	Elective methodologic courses - Business & Information Systems				

INAI.kg	Legal aspects		E	5	4
INAI.kg	Business processes in software development		E	5	4
	Elective methodologic courses - Management				
INAI.kg	Business plan		E	5	4
INAI.kg	Startup coaching		E	5	4
INAI.kg	Philosophical problems of science		E	5	4
INAI.kg	Advanced Marketing		E	5	4
INAI.kg	**International Coaching Project (practice or university project)**		E	5	1

4. Semester	Module Name in Curriculum	Existing Course at INAI.kg which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
INAI.kg	**Master Thesis**		**E**	**25**	
INAI.kg	**Titan Talks**		**E**	**5**	**2**

Total	
Total-ECTS	**120**

Kazakh-American Free University (KAFU)

Öskemen, Kazakhstan

Serik Abilov - serikabilov@kafu.kz / Prof. Ilona Bordiyanu, F

1. Semester	Module Name in Curriculum	Existing Course at KAFU which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes
KAFU	**Compulsory Study Abroad at University of Applied Sciences Zwickau**		E	30	

2. Semester	Module Name in Curriculum	rse at KAFU which may needs to	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		E	15/30	
KAFU	Higher education pedagogy		E	5	4
KAFU	Organization and planning of scientific research		E	5	4
KAFU	History and philosophy of science		E	5	4
KAFU	**Machine Learning**	**Machine learning**	E	5	4
KAFU	**Analytics for Data Driven Decisions**	**Big data management**	E	5	4
KAFU	**Advanced Fields of Management**	**Agile Project Management**	E	5	8
	Elective Courses - summer term		E	15	
	Elective methodologic courses - Computer Science				
KAFU	Computing systems and telecommunications networks		E	5	4
	Elective methodologic courses - Business & Information Systems				
KAFU	Architecture of information systems		E	5	4
KAFU	Corporate Governance		E	5	5

	Elective methodologic courses - Management				
KAFU	Strategic Marketing (KAFU)		E	5	4
KAFU	Personnel Management		E	5	4
KAFU	Project Management		E	5	4

3. Semester	Module Name in Curriculum	rse at KAFU which may needs to	Language	ECTS	Lecturing hours 1 = 45 minutes
	Management and Computer Science – compulsory courses		E	10	
KAFU	Design and Implementation of	Modeling and design of	E	5	4
KAFU	Digital Business Modelling	Simulation modeling	E	5	4
KAFU	Strategic Management	Strategic Management	E	5	4
	Elective Courses - winter term		E	15	
	Elective methodologic courses - Computer Science				
KAFU	Computing systems and telecommunications networks		E	5	4
	Elective methodologic courses - Business & Information Systems				
KAFU	Architecture of information systems		E	5	4
KAFU	Corporate governance		E	5	5
	Elective methodologic courses - Management				
KAFU	Strategic Marketing (KAFU)		E	5	4
KAFU	Personnel Management		E	5	4
KAFU	Project Management		E	5	4
KAFU	International Coaching Project (practice or university project)		E	5	1

4. Semester	Module Name in Curriculum	Existing Course at KAFU which may needs to be adjusted	Language	ECTS	Lecturing hours 1 = 45 minutes

KAFU	Master Thesis	E	25	
KAFU	Titan Talks	E	5	2

Total

Total-ECTS	**120**