

<b>Course Timetable - Specialization Application Development - Trimester 1 - 9</b>
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### 1. English Language

Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		ECTS	Responsible lecturer of Module
				Contact Hours	Independent Study		
English I	1	Written or oral examination	Presentation / Tests	144	66	7	Neil Turley
Course 1							
Course 2							
English II	2	Portfolio	Tests	144	66	7	Neil Turley
Course 1							
Course 2							
English III	3	Written examination	Tests	144	66	7	Neil Turley
Course 1							
Course 2							
English IV	4	Written or oral examination	Presentation / Test	48	12	2	Neil Turley
Course 1							
Course 2							
English V	5	Written or oral examination	Presentation / Tests	48	12	2	Neil Turley
Course 1							
Course 2							
English VI	6	Portfolio	Tests	48	12	2	Neil Turley
Course 1							
Course 2							
sum				576	234	27	

## 2. Islamic Studies

Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		ECTS	Responsible lecturer of Module
				Contact Hours	Independent Study		
Islamic Studies I	1	Written or oral examination	Presentation / Tests	36	24	2	Dr. Al-Hoshan
Course 1							
Course 2							
Islamic Studies II	8	Portfolio	Tests	36	24	2	Dr. Al-Hoshan
Course 1							
Course 2							
sum				72	48	4	

## 3. Vocational Pedagogy

Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		ECTS	Responsible lecturer of Module
				Contact Hours	Independent Study		
Key Competences for Academic Studies	1-3	Portfolio Examination		72	108	6	Ivan Kuzio
Basic Study and IT Skills	1		Portfolio Deliverables (e.g. Work Plan, Mind Map, Internet Communication)				
Advanced IT Skills	2		Portfolio Deliverables (e.g. Word File, Spreadsheet, Presentation)				
Skills for Academic Studies	3		Portfolio Deliverables (e.g. Mini Thesis)				

Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		ECTS	Responsible lecturer of Module
Fundamentals of Learning and Teaching	4	Trial Run Teaching Session (TRTS)		96	114	7	Lars Fiechel
Fundamentals of the Learning Process			Deliverables (e.g. Essay, Communication Profile, Learn Letter)				
Lesson Planning			Lesson Plan Deliverables (e.g. Learn Letter)				
Teaching Practice 1			Deliverables (e.g. Learn Letter, Observation Sheets)				
Didactics, Learning Technologies and Teaching Practice	5	Written Examination / Trial Run Teaching Session (TRTS)		96	114	7	Mohamed Arifin
Didactics			Deliverables (e.g. Reports, Lesson Plan)				
Teaching Practice 2			Deliverables (e.g. Observation Sheets)				
Learning Technology			Deliverables (e.g. Essays, BL-Website)				
Subject Didactics and Teaching Practice	6	Portfolio Examination / Trial Run Teaching Session (TRTS)		96	114	7	Dr. Chokri Guellali
Subject Didactics			Deliverables (e.g. Lesson Plan)				
Teaching Practice 3			Deliverables (e.g. Observation Sheets)				
TVET in the Kingdom of Saudi Arabia	7	Written Examination / Project		48	72	4	Dr. Volker Paul
The TVET System in Saudi Arabia			Deliverables (e.g. Questionnaire Catalogue)				
Vocational Field							

Practice							
Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		ECTS	Responsible lecturer of Module
Complex Teaching-Learning Arrangements and Teaching Practice	7	Portfolio Examination / Trial Run Teaching Session (TRTS)		72	78	5	Dr. Rainer Gerke
Complex Teaching-Learning-Arrangements			Deliverables (e.g. Educational Project Plan, Lesson Plan)				
Teaching Practice 4			Deliverables (e.g. Observation Report)				
Planning Education Processes	8	Education Process Plan		48	72	4	Dr. Rainer Gerke
Planning Assessment Processes			Deliverables (e.g. Written Test Design, Practical Test Design)				
Planning Teaching Units			Deliverables (e.g. Teaching Unit Plan)				
Advanced Teaching Practice	8	Portfolio Examination / TRTS		72	78	5	Andreas Reinholtz
Differentiation and Classroom Management			Deliverables (e.g. Assignments)				
Teaching Practice 5			Deliverables (e.g. Lesson Plan, Learning Diary)				
<b>sum</b>				600	750	45	

#### 4. Application Development

Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		CP	Responsible lecturer of Module
				Contact Hours	Independent Study		
<b>Technical Mathematics 1</b>	1	Written Examination		48	42	3	J. Riedel
<b>Fundamentals of Computer Technology</b>	1	Written Examination or Assignment		84	36	4	H. Koehl
Computer Architecture & Hardware		Written Examination or Assignment					
Fundamentals of Digital Systems		Written Examination or Assignment					

<b>Technical Mathematics 2</b>	2	Written Examination		48	42	3	G. O'Regan
<b>Information Systems &amp; Programming 1</b>	2	Written Examination or Assignment		72	18	3	T. Theodorou
Algorithmic Thinking & Programming 1		Written Examination or Assignment					
Introduction to Databases		Written Examination or Assignment					
<b>Data Communication &amp; Networks 1</b>	2	Written Examination or Assignment		48	42	3	Dr. Lepaja
Fundamentals of Telecommunication		Written Examination or Assignment					
Fundamentals of Computer Networks 1		Written Exam. or Assignment					
<b>System Administration</b>	3	Written Exam./ Assignment		60	30	3	R. Idris
Introduction to System Administration		Written Examination or Assignment					
Operating Systems		Written Examination or Assignment					
<b>Information Systems &amp; Programming 2</b>	3	Written Examination or Assignment		72	18	3	T. Theodorou
Algorithmic Thinking & Programming 2		Written Examination or Assignment					
ICT Project Management		Written Exam. Or Assignment					
<b>Data Communication &amp; Networks 2</b>	3	Written Examination or Assignment		36	54	3	Dr. Lepaja
<b>Discrete Mathematics &amp; Logic</b>	4	Written Examination		48	42	3	J. Riedel
Discrete Mathematics							
Introduction to Logic							
<b>Advanced Programming 1</b>	4	Written Examination or		60	60	4	T. Theodorou

		Assignment					
<b>Database Management Systems</b>	4	Written Examination or Assignment		60	60	4	C. Kaldeich
Databases Design							
Databases Programming							
<b>Software Application Design</b>	5	Written Examination or Assignment		36	54	3	C. Kaldeich
<b>Web Design</b>	5	Written Examination or Assignment		60	60	4	G. Violettas
Introduction to Web Design							
Web Content Management Systems							
<b>Advanced Programming 2</b>	5	Written Examination or Assignment		72	48	4	J. Riedel
Data Structures							
Database Programming & Administration							
<b>Web Application Development</b>	6	Written Examination or Assignment		60	60	4	G. Violettas
<b>Software Application Development</b>	6	Written Examination or Assignment		60	60	4	T. Theodorou
User Interface Design and Graphics							
Visual Programming with C#							
<b>Knowledge Based Systems</b>	6	Written Examination or Assignment		48	42	3	J. Niemann
<b>Mobile Software Applications</b>	7	Written Examination		60	30	3	G. Violettas
Mobile Software Applications Principles							
Mobile Software Application Development							
<b>ICT Project in Application Development</b>	7	Written Examination or Assignment		36	114	5	J. Niemann
<b>Embedded Systems</b>	7	Written Examination or Assignment		48	42	3	T. Theodorou

<b>Information Security</b>	8	Written Examination or Assignment		48	42	3	G. Violettas
<b>Elective courses</b>	8	Written Examination or Assignment		60	90	5	H. Koehl
Advanced Database Systems							
Educational Software Development							
E-Learning							
Trends and Issues in Application Development							
<b>sum</b>				1224	1086	77	

## 5. Company Field Practice

Modules and related Courses	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		ECTS	Responsible lecturer of Module
				Contact Hours	Independent Study		
Company Practice I	Field	1,2 or 3	CFP Report		180	6	XY
Company Practice II	Field	8 or 9	CFP Report		180	6	XY
<b>sum</b>					360	12	

## 6. Bachelor Thesis

Modules	Trimester	Assessment Method of Module Examination	If necessary partial study performance	Students Workload		CP	Responsible lecturer of Module
				Contact Hours	Independent Study		
<b>Bachelor Project</b>	9	Thesis			360	12	XY
<b>Bachelor Thesis Seminar</b>	9	Presentation		36	54	3	XY
<b>sum</b>				36	414	12	

<b>sum</b>				2508	2892	180	
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