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Module Descriptions

BG-BA-01	Basics in Sports Science	1st-2nd sem.	8 CP		
Module	Basics in Sports Science				
Module code	06-BG-BA-01				
Faculty/Subject/Department	FB 06, Institute of Sports Science				
Associated degree course(s)/Semester taken	BA, 1 st -2 nd semester				
Module coordinator	Cf. German version				
Prerequisites	None				
Learning outcomes	Students will understand the subject matter and main focuses within sports science. They will understand its scientific methods and be able to plan, carry out, and evaluate motor skills tests and present their results. Students will be able to handle relevant computer programs and have basic data processing skills for presenting results.				
Module content	Overview of research topics in sports science. Qualitative and quantitative methods in sports science, literature research, interdisciplinary computer skills. Motor skills tests in sports, descriptive statistics, analysis of variance methods, documentation of research findings, including 30 experiment hours				
Form(s) of instruction	Lecture 50%, Tutorial 50%				
Workload in hours	Total workload	240 hours = 8 ECTS credits			
	Course type and title	A Courses	B	C	
		a	b	Autonomous work	
		Contact hours	Preparation/revision	Examination incl. preparation	
				Total	
	L Lecture: Studying Sports Science	15	30	45	
	L Introduction to Statistics	30	30	60	
T Tutorial for Introduction to Statistics	30	30	15	75	
T Tutorial for lecture (computer skills)	15	30	15	60	
	Total	90	120	30	240
Module examination	Examination requirements	None			
	Method of assessment	Written assignments in statistics tutorial, written assignments in lecture tutorial			
	Contribution to final mark	50% for written assignments in each tutorial			
	Module-component retake examination	30-minute oral examination			
	Module retake examination	30-minute oral examination			
Frequency	Annual	Duration: 2 semesters	Winter semester: lecture and tutorial (computer data processing skills) Summer semester: Statistics seminar and tutorial		
Intake capacity	Lecture: unrestricted; tutorial: 23				
Language of instruction	German				
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue				

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BG-BA-02	Fundamentals of Sports Medicine and Exercise Physiology		1st-2nd sem.	6 CP
Module	Fundamentals of Sports Medicine and Exercise Physiology			
Module code	06-BG-BA-02			
Faculty/Subject/Department	FB 06, Institute of Sports Science			
Associated degree course(s)/Semester taken	BA, 1 st -2 nd semester			
Module coordinator	Cf. German version			
Prerequisites	None			
Learning outcomes	Students will acquire basic knowledge of human anatomy and physiology. By understanding the organism's ability to react and adapt to stress at the organ, cellular, and subcellular levels, students will be able to determine the optimal extent and intensity of physical exercises. Furthermore, students will learn how to optimize athletic performance in a physiological way.			
Module content	The two-hour lecture will demonstrate the structure and functions of the human body. Aspects of the influence of acute and chronic athletic strain will be discussed, and structural/functional adaptations of the organism will be presented. In the one-hour lecture on performance physiology, students will encounter special challenges for the organism and its reactions to training strains and stress from extreme conditions such as heat, height, etc. In the closing one-hour lecture on molecular exercise physiology, students will encounter the molecular processes of adaptation to physical exercises.			
Form(s) of instruction	Lecture 100%			
Workload in hours	Total workload	180 hours = 6 ECTS credits		
	Course type and title	A Courses a Contact hours	b Preparation/revision	B Autonomus work C Examination incl. preparation Total
	L Lecture: Anatomic and Physiological Fundamentals of Sports Medicine	30	30	30 90
	L Lecture: Performance Physiology – Physiology of Extremes	15	15	15 45
	L Lecture: Molecular Exercise Physiology	15	15	15 45
	Total	60	60	60 180
Module examination	Examination requirements	None		
	Method of assessment	L1: written examination (80 minutes), L2: written examination (40 minutes), L3: written examination (40 minutes)		
	Contribution to final mark	50%: examination grade L1, 25% examination grade L2, 25% examination grade L3		
	Module-component retake examination	for L1: 80-minute written examination for L2 and L3: 40-minute written examination		
	Module retake examination	30-minute oral examination		
Frequency	Annual	Duration: 2 semesters	Winter semester:	Summer semester:
Intake capacity	Unrestricted			
Language of instruction	German			
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue			

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BG-BA-03	Functional Anatomy	1st-2nd sem.	9 CP			
Module	Functional Anatomy and Clinical Pictures of the Musculoskeletal System					
Module code	06-BG BA-03					
Faculty/Subject/Department	FB 06, Institute of Sports Science					
Associated degree course(s)/Semester taken	BA, 1 st - 2 nd semester					
Module coordinator	Cf. German version					
Prerequisites	None					
Learning outcomes	<p>Students will understand the functions of the muscles/muscle groups necessary for movement. Special emphasis will be placed on connections with practical units in which specific exercises for certain muscles will be demonstrated. The participants will have an overview of orthopaedic disorders and learn about common injuries and degenerative diseases of the musculoskeletal system and their causes. They will learn about indication-specific and function-specific physiotherapy, as well as dynamic and static muscle training for motor impairments, muscular atrophies, posture problems, muscular imbalances, coordination disorders, etc. Students will gain an understanding of aspects of therapy planning in combination with interdisciplinary methods such as thermo-, hydro-, balneo-, and electrotherapy (compare: internal and neurological sports therapy). They will also learn about common orthopaedic devices.</p>					
Module content	<p>The one-hour lecture will provide an overview of the musculoskeletal system's general and specific anatomy. Muscle groups relevant for posture and movement will be discussed in detail. Special emphasis will be given to connections with practical units in which specific exercises for certain muscles will be demonstrated.</p> <p>The second one-hour lecture will discuss common orthopaedic disorders and their pathomechanisms as well as traumatological research methods and techniques. Strain and resilience in specific types of sports and typical injuries related to specific types of sports will be demonstrated.</p> <p>In the accompanying seminars, practical exercises from the field of functional training will be learned. These exercises have been developed based on applied anatomy and functional kinesiology. Students will gain knowledge of methodological types of teaching as well as about the role of functional training in improving the exercise tolerance and performance of the musculoskeletal system, e.g. back exercises, perineal gymnastics.</p> <p>Furthermore, students will complement the knowledge gained in the lecture by learning and using fundamental manual and physiotherapeutic treatment methods.</p>					
Form(s) of instruction	Lectures 33% Seminar/exercise tutorial 67%					
Workload in hours	Total workload	270 hours = 9 ECTS credits				
	Course type and title	A Courses a Contact hours b Preparation/revision		B Autonomus work C Examination incl. preparation	Total	
	L1	Lecture: Functional Anatomy of Movement	15	30	15	60
	L2	Lecture: Introduction to Sports Orthopaedics and Traumatology	15	30	15	60
	S1	Seminar: Functional Training OR Back Exercises	30	30	15	75
	S2	Seminar: Practical Manual Medicine and Physiotherapy OR Physical Medicine and Orthopaedic Devices	30	30	15	75
		Total	90	120	30	30
Module examination	Examination requirements	None				
	Method of assessment	L1: 40-minute written examination, L2: 40-minute written examination S1: practical demonstrations, S2: presentation with written component				
	Contribution to final mark	30% each for the two examination grades and 20% each for the two seminars; making up modular examinations is in each case only possible between lectures and seminars.				
	Module-component retake examination	L1 and L2: a 40-minute written examination in each S1: practical demonstrations, S2: written report				

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	Module retake examination	30-minute oral examination
Frequency	Annual	Duration: 2 semesters Winter semester: L1 and L2; S1 Summer semester: S2
Intake capacity	Lectures: unrestricted; Seminars 30	
Language of instruction	German	
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue	

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BG-BA-04	Kinesiology	1st sem.	6 CP	
Module	Kinesiology			
Module code	06-BG-BA-04			
Faculty/Subject/Department	FB 06, Institute of Sports Science			
Associated degree course(s)/Semester taken	BA, 1 st semester			
Module coordinator	Cf. German version			
Prerequisites	None			
Learning outcomes	Students will acquire basic knowledge of the topics of kinesiology that are relevant for teaching and learning sports. They will encounter central aspects of motor control and learning and learn about the psychological requirements and effects of athletic activity. This knowledge of kinesiology will be deepened in a practical course in which they will receive training in relevant teaching and learning methods in order to teach motor skills in sports.			
Module content	The introductory lectures offer a systematic overview of topics in kinesiology (postural control, basic motor skills, instruction and feedback, design of learning processes). In the additional practical class, students will learn about and work with subcategories of kinesiology (instruction, feedback, methodological exercise series, mental training, etc.).			
Form(s) of instruction	Lecture 50% Seminar/practical tutorial 50%			
Workload in hours	Total workload	180 hours = 6 ECTS credits		
	Course type and title	a Contact hours	b Preparation/revision	B Autonomous work C Examination incl. preparation Total
	L Lecture: Introduction to Kinesiology	30	30	30 90
	S/T Seminar/tutorial: Motor Skills – Teaching Methods and the Design of Exercises	30	30	30 90
	Total	60	60	30 30 180
Module examination	Examination requirements	None		
	Method of assessment	L: 90-minute written examination, S/T: presentation/group examination		
	Contribution to final mark	66% examination grade, 33% work in seminar		
	Module-component retake examination	If the module or one or more components are failed because of one or more modular examinations, students can take a module-component retake examination, which consists of a) a 90-minute written examination if only the examination was failed b) a written assignment, due within one month, if only the seminar work was failed		
	Module retake examination	90-minute written examination		
Frequency	Annual	Duration: 1 semester	Winter semester:	
Intake capacity	L: unrestricted, S/T: 30			
Language of instruction	German			
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue			

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BG-BA-05	Sports Sociology and Education		1st-2nd sem.	9 CP			
Module	Sports Sociology and Education						
Module code	06-BG-BA-05						
Faculty/Subject/Department	FB 06, Institute of Sports Science						
Associated degree course(s)/Semester taken	BA, 1 st -2 nd semester						
Module coordinator	Cf. German version						
Prerequisites	None						
Learning outcomes	Students will have an overview of the societal and historical background of modern athletics and the related organizations. They will learn about important theoretical approaches and empirical findings in sports-related research of children and youth. Furthermore, students will gain insights into health-oriented sports pedagogical findings, including some discussion of occupational health services.						
Module content	Students will gain insights into social and societal facts (gender, social status, ethnicity, etc.) and areas (health, media, economy, politics, etc.) which determine the commitment to sports and the status of sports in society. Special attention will be given to sports pedagogical factors which are important for encouraging people to start exercising and stay active for the long term. Cost-benefit analyses for occupational health services will be discussed. The seminar will focus on methodological skills with an eye toward the athletic activity of adolescents and its contribution to health as well as movement-oriented youth cultures. Practical courses will focus on kinds of adventure sports that are ideal for leisure activities for youth.						
Form(s) of instruction	Lecture 33%, Seminar 33%, Practical course 33%						
Workload in hours	Total workload	270 hours = 9 ECTS credits					
	Course type and title	A Courses A Contact hours	b Preparation/revision	B Autonomous work	C Examination incl. preparation	Total	
	L	Lecture: Sociological Fundamentals of Sports	30	30		30	90
	S	Seminar: Children and Teenagers' Commitment to Sports	30	30	30		90
	P	Practical Course, e.g. Adventure Sports	30	30	30		90
	Total	90	90	60	30	270	
Module examination	Examination requirements	Regular participation					
	Method of assessment	Lecture: written examination; seminar: topical presentation and written assignments in class; practical course: practical demonstration with written component					
	Contribution to final mark	40% examination grade; 30% seminar grade; 30% practical course grade					
	Module-component retake examination	The module-component retake examination depends on the type and scope of the component assessment that was not passed: 1. Lecture: 90-minute written examination 2. Seminar: written assignment on a selected topic from the seminar 3. Practical course: write-up of a class demonstration on a selected topic from the course					
	Module retake examination	30-minute oral exam					
Frequency	Annual	Duration: 2 semesters	Winter semester: L and S Summer semester: P				
Intake capacity	L: unrestricted; S: 30; P: 30						
Language of instruction	German						
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue						

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BG-BA-06		Exercise Science			2nd sem.	6 CP	
Module		Exercise Science					
Module code		06-BG-BA-06					
Faculty/Subject/Department		FB 06, Institute of Sports Science					
Associated degree course(s)/Semester taken		BA, 2 nd semester					
Module coordinator		Cf. German version					
Prerequisites		None					
Learning outcomes	Students will have (i) a systematic overview of subjects, methods, and principals as well as of issues and fields in which exercise science may be applied. Students will be familiar with (ii) exercise routines, training parameters, and training protocols for improving specific coordinative performance conditions. They will be able to develop coordination training methods targeted at specific goals.						
Module content	(Theory) Health-oriented exercise; functional models of adapting exercises; assessment of physical performance and training coordination; endurance, strength, coordination, and flexibility training; motor skills training (Practical application) Testing and evaluating various exercise regimes and methods in order to improve major motor skills with a focus on coordination for different groups (participants in health-oriented popular sports, seniors, patients) and goal settings (compensating for coordination deficiencies, complementing physical therapy).						
Form(s) of instruction		Lecture 50% Seminar 50%					
Workload in hours	Total workload		180 hours = 6 ECTS credits				
	Course type and title		A Courses		B	C	
			a	b	Autono	Examina	
			Contact	Preparat	mous	tion incl.	
			hours	ion/revis	work	preparat	Total
	L	Lecture: Introduction to Training Science	30	30		30	90
	S	Seminar: Coordination Training	30	30	30		90
	Total		60	60	30	30	180
Module examination	Examination requirements		None				
	Method of assessment		L: written examination (60 minutes) S: practical demonstration of a training program with written component				
	Contribution to final mark		L: 50% written exam, S : 50%				
	Module-component retake examination		Assessment according to type and scope of the failed assessments				
	Module retake examination		If the module-component retake examination is also failed, the student must pass a 30-minute oral examination that covers all the material learned in the module.				
Frequency		Annual		Duration: 1 semester		Summer semester	
Intake capacity		L: unrestricted; S: 30					
Language of instruction		German					
Additional information		Module guidance and literature: see notice board/Dates: see course catalogue The workload specified under "B: Autonomous Work" can be satisfied by, for example, completing assignments related to the lecture.					

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BG-BA-07		Pathophysiology				3rd-4th sem.	6 CP
Module		Pathophysiology					
Module code		06-BG BA-07					
Faculty/Subject/Department		FB 06, Institute of Sports Science					
Associated degree course(s)/Semester taken		BA, 3 rd -4 th semester					
Module coordinator		Cf. German version					
Prerequisites		Fundamentals of Sports Medicine					
Learning outcomes	Students will acquire basic knowledge concerning the development and progression of diseases and an overview of basic diseases in the field of internal medicine and discuss the International Classification of Diseases (ICD). Students will be able to recognize the possibility of influencing a disease's progression with physical activity, as well as with pharmaceuticals, and/or a combination of the two. The focus here is on pain, including how pain comes about, how it is transmitted, and how it can be affected.						
Module content	The first one-hour lecture will present major diseases in the field of internal medicine, including hypertonia, coronary heart disease, diabetes mellitus, fat metabolism disorders, tumours, etc. Students will be confronted with the symptoms, clinical peculiarities, progression, diagnostics, and therapy for diseases. In the second one-hour lecture, they will learn about the mechanisms of development and the pathophysiological causalities of major chronic diseases. In the final one-hour lecture, the preventive and therapeutic potentials of physical activity in terms of internal diseases will be explained further with an emphasis on pain management.						
Form(s) of instruction		Lecture 100%					
Total workload		180 hours = 6 ECTS credits					
Workload in hours	Course type and title		A Courses		B	C	
			a	b	Autono	Examina	
			Contact	Preparat	mous	tion incl.	
			hours	ion/revis	work	preparat	Total
			ion	ion	work	ion	
L1	Lecture: General Pathology and Fundamentals of Internal Diseases		15	30		15	60
L2	Lecture: Fundamentals of Pharmaceutical Therapy and Pain Management		15	30		15	60
L2	Lecture: Pathophysiology of Internal Diseases		15	30		15	60
Total			45	90		45	180
Module examination	Examination requirements		Passing grade in Fundamentals of Sports Medicine				
	Method of assessment		L1-3: written examination over 40 minutes in each lecture				
	Contribution to final mark		40% L1 exam; 30% L2 exam; 30% L3 exam				
	Module-component retake examination		L1 examination 40 minutes L2 examination 40 minutes L3 examination 40 minutes				
	Module retake examination		30-minute oral exam				
Frequency		Annual	Duration: 2 semesters		Winter semester: L1, L2 Summer semester: L3		
Intake capacity		Unrestricted					
Language of instruction		German					
Additional information		Module guidance and literature: see notice board/Dates: see course catalogue					

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BG-BA-08		Motor Development				3rd-4th sem.	9 CP
Module		Motor Development					
Module code		06-BG-BA-08					
Faculty/Subject/Department		FB 06, Institute of Sports Science					
Associated degree course(s)/Semester taken		BA, 3 rd -4 th semester					
Module coordinator		Cf. German version					
Prerequisites		None					
Learning outcomes	Knowledge of the progression of motor development throughout the lifespan; knowledge of conditions leading to delayed or handicapped motor development; basic knowledge of support possibilities						
Module content	Early childhood development, development in childhood and youth, motor skills in the elderly. Practical application: psychomotor exercises, bodywork/relaxation techniques, improved body awareness.						
Form(s) of instruction		Lecture 33% Tutorial 67%					
Workload in hours	Total workload	270 hours = 9 ECTS credits					
	Course type and title	A Courses	B	C			
		a	b	Autono	Examina	Total	
		Contact	Preparat	mous	tion incl.		
		hours	ion/revis	work	preparat		
		ion	work	ion			
L	Lecture: Psychomotor Development in Childhood and Youth	30	30		30	90	
T	Tutorial: Psychomotor Exercises	30	30	30		90	
T	Tutorial: Bodywork	30	30	30		90	
	Total	90	90	60	30	270	
Module examination	Examination requirements	None					
	Method of assessment	L: 90-minute written exam, T: practical demonstration/report					
	Contribution to final mark	L: 50%, T: 25% each					
	Module-component retake examination	If the module or one or more components are failed because of one or more modular examinations, students can take a module-component retake examination, which consists of a) a 90-minute written examination if only the examination was failed b) a written assignment, due within one month, if only the tutorial work was insufficient					
	Module retake examination	90-minute written exam					
Frequency	Annual					Duration: 2 semesters	
Intake capacity	L: unrestricted; T: 22						
Language of instruction	German						
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue						

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BG-BA-09		Sports Psychology				2nd sem.	6 CP
Module		Sports Psychology					
Module code		06-BG-BA-09					
Faculty/Subject/Department		FB 06, Institute of Sports Science					
Associated degree course(s)/Semester taken		BA, 2 nd semester					
Module coordinator		Cf. German version					
Prerequisites		None					
Learning outcomes	Students will acquire knowledge of psychological preconditions for and the effects of sports. They will deepen their knowledge in a course dealing with the current state of research in the field of sports and health. Students will acquire basic knowledge about the research methods used in this field of studies that they can use, in particular, to address social/epidemiological questions.						
Module content	The introductory lecture provides a systematic overview of topics in sports psychology (perception, memory, emotion, motivation, group, and teams). In the follow-up seminar, a specific sub-topic of sports psychology will be used as an example to learn about central elements of health psychology in sports. Another important aspect will be the possibilities of sports psychological interventions (psycho-regulative relaxation techniques, autogenic training, goal setting, self-efficacy training, and stress regulation).						
Form(s) of instruction		Lecture 50% Seminar 50%					
Workload in hours	Total workload		180 hours = 6 ECTS credits				
	Course type and title		A Courses		B	C	
			a	b	Autono	Examina	
			Contact	Preparat	mous	tion incl.	
			hours	ion/revis	work	preparat	Total
L Lecture: Introduction to Sports Psychology		30	30		30	90	
S Seminar: Exercise Psychology		30	30	30		90	
Total		60	60	30	30	180	
Module examination	Examination requirements		None				
	Method of assessment		L: 90-minute written exam; S: presentation and group assessment				
	Contribution to final mark		L: 33%, S: 66%				
	Module-component retake examination		If the module or one or more components are failed because of one or more modular examinations, students can take a module-component retake examination, which consists of a) a 90-minute written examination if only the examination was failed b) a written assignment, due within one month, if only the seminar work was insufficient				
	Module retake examination		90-minute written exam				
Frequency		Annual				Duration: 1 semester	
Intake capacity		L: unrestricted S: 30					
Language of instruction		German					
Additional information		Module guidance and literature: see notice board/Dates: see course catalogue					

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BG-BA-10	Sports Therapy			4th sem.	6 CP
Module	Sports Therapy				
Module code	06-BG BA-10				
Faculty/Subject/Department	FB 06, Institute of Sports Science				
Associated degree course(s)/Semester taken	BA, 4 th semester				
Module coordinator	Cf. German version				
Prerequisites	Fundamentals of Sports Medicine; General Pathology and Fundamentals of Internal Diseases (lecture)				
Learning outcomes	Students will acquire basic knowledge of how sports and exercise can have a positive effect in treating many chronic diseases. They will get an overview of how the severity of and prognosis for an illness can be influenced by exercise. Students will learn about integrating sports therapy into a therapy plan overall and about the positive and negative interactions with other forms of therapy (e.g. with drugs or surgery). Finally, they will be introduced to various structures of the health care system (care providers, insurance companies, etc.) and accounting systems.				
Module content	<p>The two-hour lecture will discuss evidence-based applications of athletics. Special emphasis will be placed on differential sports therapy, with which different effects can be obtained depending on dosage, comprehensiveness, and the nature of the physical strain. The structure of various stationary/ambulatory rehabilitation programs and how it can be billed will also be discussed.</p> <p>In the complementary seminar, students will develop basic skills and expertise in the practical application of individual therapeutic exercise concepts. Goals include indication-based design of training plans, improving patients' range and ability in terms of performance, concepts for encouraging weight loss, minimizing functional deficits, optimising cardiac function and motion sequences, and improving breathing efficiency and general performance.</p> <p>Special attention will be given to the development of teaching skills needed to demonstrate exercises and to determining physical strain and training for specific target groups, e.g. tumour patients, cardiology patients, patients with diabetes etc.</p>				
Form(s) of instruction	Lecture 50% Seminar 50%				
Workload in hours	Total workload	180 hours = 6 ECTS credits			
	Course type and title	A Courses a Contact hours	b Preparation/revision	B Autonomous work	C Examination incl. preparation Total
	L Lecture: Sports Therapy for Diseases of the Internal Organs and Musculoskeletal System	30	30		30 90
	S Seminar: Internal Sports Therapy OR Movement Therapy for Diseases of the Musculoskeletal System	30	30	30	90
	Total	60	60	30	30 180
Module examination	Examination requirements	Passing grade in Fundamentals of Sports Medicine			
	Method of assessment	L: 80-minute written examination; S: presentation and written assignment			
	Contribution to final mark	60% exam, 20% presentation, 20% written report. It is not possible to make up modular examinations.			
	Module-component retake examination	If the module or one or more components are failed because of one or more modular examinations, students can take a module-component retake examination, which consists of a) an 80-minute written examination in the lecture b) a written assignment, due within one month, in the seminar			
	Module retake examination	30-minute oral examination			
Frequency	Annual	Duration: 1 semester	Summer semester:		
Intake capacity	L: unrestricted, S: 30				
Language of instruction	German				
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue				

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BG-BA-11	Diagnostics in Sport			3rd-4th sem.	12 CP	
Module	Diagnostics in Sport					
Module code	06-BG-BA-11					
Faculty/Subject/Department	FB 06, Institute of Sports Science					
Associated degree course(s)/Semester taken	BA, 3 rd -4 th semester					
Module coordinator	Cf. German version					
Prerequisites	BG-BA-01, BG-BA-04, BG-BA-06					
Learning outcomes	Students will be able to assess diagnostic procedures within the realm of health and exercise for appropriateness, implement them correctly, and, if necessary, independently develop them (further). They should be familiar with common procedures for evaluating the main forms of physical demand: endurance, strength, speed, agility, and coordination. They will understand specific problems as well as possible solutions. Students should be able to interpret the data they collect and identify steps to be taken as a result.					
Module content	Methods of evaluating cardiovascular functions and capacity (e.g. ergospirometry, lactate diagnostics), field experiments to evaluate endurance and condition, isometric testing of maximum strength, functional tests for evaluating agility and strength, testing of (basic) coordinative and psychomotor skills, data collection and evaluation, application of statistical methods, reports					
Form(s) of instruction	Lecture 25%, Seminars 75%					
Workload in hours	Total workload	360 hours = 12 ECTS credits				
	Course type and title	a Contact hours	b Preparation/revision	B Autonomous work	C Examination incl. preparation Total	
	L	Lecture: Fundamentals of Diagnostics in Sports	30	30	30	90
	S1	Diagnostics in Sports Medicine	30	30	30	90
	S2	Diagnostics in Kinesiology	30	30	30	90
	S3	Diagnostics in Exercise Science	30	30	30	90
	Total	120	120	120	360	
Module examination	Examination requirements	None				
	Method of assessment	S1: presentation with written component (45 minutes) in Diagnostics in Sports Medicine S2+3: presentation/report on a selected topic in diagnostics in each seminar Diagnostics in Kinesiology and Diagnostics in Exercise Science				
	Contribution to final mark	½ report/written component in Diagnostics in Sports Medicine ½ presentation/report in Diagnostics in Kinesiology ½ presentation/report in Diagnostics in Exercise Science				
	Module-component retake examination	Examination according to type and scope of the failed examinations.				
	Module retake examination	If the module-component retake examination is failed, the student must pass a 90 -minute written examination that covers all material learned in the module.				
Frequency	Annual	Duration: 2 semesters	Winter semester: L, S1 Summer semester: S2, S3			
Intake capacity	L: unrestricted; S: 30					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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BG-BA-12	Resistance Training	3rd sem.	6 CP		
Module	Resistance Training				
Module code	06-BG-BA-12				
Faculty/Subject/Department	FB 06, Institute of Sports Science				
Associated degree course(s)/Semester taken	BA, 3 rd /4 th semester				
Module coordinator	Cf. German version				
Prerequisites	BG-BA-06				
Learning outcomes	Students will be able to plan, carry out, and evaluate strength training for various target groups based on relevant theories. They will understand important adaptation processes and corresponding training methods. Furthermore, they will be able to critically evaluate strength training programs available on the market, especially for use by patients with various diseases of varying degrees of severity.				
Module content	<p>Lecture: strength as a motor ability morphological factors and training adaptations, neuronal factors and training adaptations, biomechanical aspects of producing strength, strength training methods, regulating physical strain in strength training, strength diagnostics, periodization models, strength training in fitness and leisure sports, preventive strength training, strength training with children and adolescents.</p> <p>Seminar: testing and evaluation of different strength exercises, training parameters and program design, strength training with machines, strength training with small devices and free weights.</p>				
Form(s) of instruction	Lecture 50% Seminar 50%				
Workload in hours	Total workload	180 hours = 6 ECTS credits			
	Course type and title	A Courses	B	C	
		a	b	Autono	
		Contact	Preparat	mous	
		hours	ion/revis	work	
		ion	Examina	Total	
		ion	tion incl.		
		Total	preparat		
	L	30	30	30	90
	S	30	30	30	90
	Total	60	60	30	30
					180
Module examination	Examination requirements	None			
	Method of assessment	L: written examination (60 minutes) S: (I) presentation; (ii) exercise analyses; (iii) assessment of demonstration (15 minutes)			
	Contribution to final mark	Written examination 40%; (i) presentation 10%, (ii) written report 20%, (iii) assessment of demonstration 30%			
	Module-component retake examination	Examination according to type and scope of the failed examinations.			
	Module retake examination	If the module-component retake examination is failed, the student must pass a 30-minute oral examination which covers all material learned in the module.			
Frequency	Annual	Duration 1 semester	Winter semester		
Intake capacity	L: unrestricted; S: 30				
Language of instruction	German				
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue Autonomous work can be completed in the form of a tutorial corresponding to the lecture.				

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BG-BA-13		Work Placement		4 th & 5 th sem.		12 CP			
Module		Work Placement							
Module code		06-BG-BA-13							
Faculty/Subject/Department		FB 06, Institute of Sports Science							
Associated degree course(s)/Semester taken		BA, 4 th & 5 th semesters							
Module coordinator		Cf. German version							
Prerequisites		BG-BA-01, BG-BA-02, BG-BA-03, BG-BA-04, BG-BA-05, BG-BA-06, BG-BA-09							
Learning outcomes		<ul style="list-style-type: none"> As interns, the students will gain insights and experience in careers related to sports sciences They will make connections between the knowledge they acquired in their studies and practical skills and tasks They will develop a clear idea of their job opportunities (career planning) The experience gained during the work placement can play a role in choosing a topic for the bachelor's dissertation 							
Module content		<ul style="list-style-type: none"> Attendance of an orientation meeting covering organizational issues for the work placement, e.g. requirements, writing the report, assessment criteria, etc. Representatives of the organizations where the work placement will take place will also be present. Observations and practical experience in selected careers related to exercise and health Attendance at a professional event or conference (e.g. German Association for Sports Science health congress, German Psychological Society meeting, etc.) 							
Form(s) of instruction									
Total workload		360 hours = 12 ECTS credits							
Workload in hours				A Work placement		B		C	
		Course type and title		a	b	Autono	Examina		
				Contact	Preparat	mous	tion incl.		
				hours	ion/revis	work	preparat		
					ion		ion	Total	
OR	Orientation for work placement	10						10	
WP	Work Placement	320	15	15				350	
		Total	330	15	15			360	
Module examination		Examination requirements		Attendance at the orientation meeting, approved work placement application, work placement record card (as part of the report)					
		Method of assessment		Work placement report (tasks, acquired knowledge and skills, reflection)					
		Contribution to final mark		This module is graded pass/fail. A student passes the module once the work placement site has submitted the evaluation form, thereby confirming the successful completion of the work placement in writing, and the work placement advisor has accepted the student's work placement report and graded it as "pass".					
		Module-component retake examination		If the report is not given a passing grade, a revised version must be handed in within four weeks.					
		Module retake examination		If the module-component retake examination is failed, the student must pass a one-hour oral retake examination about the tasks carried out during the work placement.					
Frequency		Annual		Duration: 8 weeks full-time or 16 weeks part-time		Winter semester:		Summer semester:	
				Work placement can be split up (at least two weeks at a time)					
Intake capacity		60							
Language of instruction		German							
Additional information		Module guidance and literature: see notice board/Dates: see course catalogue Work placements completed before a student began the degree programme cannot be substituted for this module.							

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BG-BA-14		Sports and Prevention			5th-6th sem.	9 CP																																																																		
Module		Sports and Prevention																																																																						
Module code		06-BG BA-14																																																																						
Faculty/Subject/Department		FB 06, Institute of Sports Science																																																																						
Associated degree course(s)/Semester taken		BA, 5 th -6 th semester																																																																						
Module coordinator		Cf. German version																																																																						
Prerequisites		Fundamentals of Sports Medicine; Pathophysiology; Internal Sports Therapy																																																																						
Learning outcomes	<p>Participants will take a close look at the mental, physical, and social conditions for health and sickness in a society, with an overview of the health care system in both Germany and other countries and a particular focus on policy and economic aspects related to health. Students will also discuss aspects of health services research and the role of prevention in the health care system. Students will learn about aspects of health education related to improving compliance in training programs (health coaching individually or in a group). Finally, they will gain insights into the development of the major motor skills in groups ranging from children and youth to the elderly and cover an overview of the aging process and the physical restrictions resulting from it.</p>																																																																							
Module content	<p>The introductory lecture covers the analysis, evaluation, and organisation of health problems in a population as well as preventing and/or fighting them with appropriate, effective, and economically sensible measures. The second, one-hour lecture deals with the development of major motor skills throughout a person's life.</p> <p>One of the two-hour seminars discusses the importance of physical activity for healthy child development. Students will get information about current problems, such as obesity in children, and possible intervention strategies. The other seminar covers the importance of regular exercise in preventing numerous age-related diseases, with a particular focus on the connection between age-related strain and resilience. Finally, both seminars will discuss the hierarchy levels of prevention and how to account for preventive services.</p> <p>In the additional practical seminar, students will develop skills and insights for using various kinds of physical activity (e. g. dance therapy) in preventing internal diseases, in different target groups, with a particular focus on specific training measures for certain target groups, such as handicapped persons and tumour patients, in order to develop exercise regimes based on available resources. One alternative seminar, Aqua Sports, addresses these topics in the context of water, while another, Health-Oriented Outdoor Exercise, gives students the knowledge and skills they need to design and implement targeted, comprehensive outdoor exercise regimes for various age and target groups. Students will gain scientific and didactic knowledge in various areas of application and put it to use in practical examples.</p>																																																																							
Form(s) of instruction		Lectures 50% Seminar 25% Practical seminar 25%																																																																						
Total workload		270 hours = 9 ECTS credits																																																																						
Workload in hours	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2" rowspan="2">Course type and title</th> <th colspan="2">A Courses</th> <th>B</th> <th>C</th> <th rowspan="2">Total</th> </tr> <tr> <th>a</th> <th>b</th> <th>Autono</th> <th>Examina</th> </tr> <tr> <th colspan="2"></th> <th>Contact</th> <th>Preparat</th> <th>mous</th> <th>tion incl.</th> <th></th> </tr> <tr> <th colspan="2"></th> <th>hours</th> <th>ion/revis</th> <th>work</th> <th>ion</th> <th></th> </tr> <tr> <th colspan="2"></th> <th></th> <th>ion</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>Introduction to Health Sciences</td> <td>30</td> <td>30</td> <td></td> <td>15</td> <td>75</td> </tr> <tr> <td>L2</td> <td>Exercise Throughout Life</td> <td>15</td> <td>30</td> <td></td> <td>15</td> <td>60</td> </tr> <tr> <td>S</td> <td>Seminar: Exercise for the Elderly OR Sports Medicine for Children and Youth</td> <td>30</td> <td>30</td> <td>15</td> <td></td> <td>75</td> </tr> <tr> <td>PS</td> <td>Elective practical seminar: Aqua Sports OR Health-Oriented Outdoor Exercise OR Exercise for Specific Target Groups</td> <td>30</td> <td>15</td> <td>15</td> <td></td> <td>60</td> </tr> <tr> <td colspan="2">Total</td> <td>105</td> <td>105</td> <td>30</td> <td>30</td> <td>270</td> </tr> </tbody> </table>					Course type and title		A Courses		B	C	Total	a	b	Autono	Examina			Contact	Preparat	mous	tion incl.				hours	ion/revis	work	ion					ion				L1	Introduction to Health Sciences	30	30		15	75	L2	Exercise Throughout Life	15	30		15	60	S	Seminar: Exercise for the Elderly OR Sports Medicine for Children and Youth	30	30	15		75	PS	Elective practical seminar: Aqua Sports OR Health-Oriented Outdoor Exercise OR Exercise for Specific Target Groups	30	15	15		60	Total		105	105	30	30	270
Course type and title		A Courses		B	C			Total																																																																
		a	b	Autono	Examina																																																																			
		Contact	Preparat	mous	tion incl.																																																																			
		hours	ion/revis	work	ion																																																																			
			ion																																																																					
L1	Introduction to Health Sciences	30	30		15	75																																																																		
L2	Exercise Throughout Life	15	30		15	60																																																																		
S	Seminar: Exercise for the Elderly OR Sports Medicine for Children and Youth	30	30	15		75																																																																		
PS	Elective practical seminar: Aqua Sports OR Health-Oriented Outdoor Exercise OR Exercise for Specific Target Groups	30	15	15		60																																																																		
Total		105	105	30	30	270																																																																		
Module		Examination requirements				Modules on Pathophysiology and Internal Sports Therapy																																																																		
		Method of assessment				S: presentation and written assignment in each; PS: demonstration																																																																		
		Contribution to final mark				30% L1 examination, 20% L2 examination, 30% presentation with written component, 20% assessment of demonstration; making up modular examinations is in each case only possible once																																																																		

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		between lectures and between seminars
	Module-component retake examination	If the module or one or more components are failed because of one or more modular examinations, students can take a module-component retake examination, which consists of a) an 80 or 40-minute written examination b) a written assignment, due within one month c) a written assignment, due within one month, if only the practical demonstration/presentation is failed
	Module retake examination	30-minute oral examination
Frequency	Annual	Duration: 2 semesters Winter semester: L2 + PS Summer semester: L1 + S
Intake capacity	30	
Language of instruction	German	
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue	

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BG-BA-15	Movement Disorders	5th sem.	9 CP	
Module	Movement Disorders			
Module code	06-BG-BA-15			
Faculty/Subject/Department	FB 06, Institute of Sports Science			
Associated degree course(s)/Semester taken	BA, 5 th semester			
Module coordinator	Cf. German version			
Prerequisites	Passing grade in Kinesiology			
Learning outcomes	Students will acquire knowledge and practical skills in the areas of etiology, diagnoses, and intervention in neurological movement disorders.			
Module content	Basic knowledge of kinesiology will be expanded, focusing on methodological aspects of movement analysis. Students will encounter important movement disorders that have a neurological basis (stroke, Parkinson's, cerebral issues). They will acquire knowledge and practical skills in the treatment of movement disorders using sports therapy.			
Form(s) of instruction	Lecture 25% Tutorial 75%			
Workload in hours	Total workload	270 hours = 9 ECTS credits		
	Course type and title	A Courses	B	C
		a	b	Autono
		Contact	Preparat	mous
		hours	ion/revis	work
L	Lecture: Movement Disorders	60	30	60
T	Tutorial: Analysis of Movement	15	30	30
T	Tutorial: Neurological Movement Therapy	30	30	30
	Total	60	90	60
				270
Module examination	Examination requirements	Passing grades in Kinesiology and Motor Development		
	Method of assessment	Final written examination (120 minutes)		
	Contribution to final mark	Examination grade		
	Module-component retake examination	120-minute written examination		
	Module retake examination	120-minute written examination		
Frequency	Annual	Duration: 1 semester		
Intake capacity	L: unrestricted; T (Analysis of Movement): 20; T (Neurological Movement Therapy): 22			
Language of instruction	German			
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue			

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BG-BA-16		Training Assessment			4th-5th sem.	9 CP
Module		Training Assessment				
Module code		06-BG-BA-16				
Faculty/Subject/Department		FB 06, Institute of Sports Science				
Associated degree course(s)/Semester taken		BA, 4 th -5 th semester				
Module coordinator		Cf. German version				
Prerequisites		BG-BA-06, BG-BA-12				
Learning outcomes	Students will learn about the fundamentals and methods used in evaluating different exercise and movement-oriented interventions with respect to effect and efficiency. Students will be familiar with exercise routines, training parameters, and training protocols for reaching specific performance objectives. Students will learn about the requirements for sports therapeutic counselling in companies, taking into consideration company-specific processes, financial aspects, and health management.					
Module content	In the lecture, students will learn about the theoretical and empirical fundamentals of training evaluation, including scientific and formal criteria, explication of objectives and evaluation criteria, evaluators, accompanying and final evaluation, quantification training effects, and measuring effect size. In the seminar accompanying the lecture (S1), evaluation studies will be planned and presented with the help of an instructor. In the seminar on endurance training (S2), students will look into and evaluate different exercise programmes and training methods for improving endurance using types of exercise and movement that are relevant to health (e.g. Nordic walking, jogging, cycling). In the elective (S3), students will develop and apply evaluation concepts for health-oriented training in a variety of areas (leisure activity, gyms, the workplace, prevention, physical therapy, etc.).					
Form(s) of instruction		Lecture 33%, Seminars 67%				
Total workload		270 hours = 9 ECTS credits				
Workload in hours	Course type and title	A Courses a Contact hours	b Preparation/revision	B Autonomous work	C Examination incl. preparation	Total
	L Lecture: Evaluation Based on Training Science Principles	15	30			45
	S1 Seminar accompanying the lecture	15	30			45
	S2 Seminar: Endurance Training	30	30	30		90
	S3 Seminar: Evaluating Health-Related Exercise	30	30	30		90
	Total	90	120	60		270
Module examination	Examination requirements	None				
	Method of assessment	S2: evaluation of an endurance programme; written report (8-10 pages) S3: presentation (15-30 minutes)				
	Contribution to final mark	S2: evaluation, written report 60%; S3: presentation 40%				
	Module-component retake examination	Examination according to type and scope of failed examinations.				
	Module retake examination	30-minute oral examination				
Frequency	Annual	Duration: 2 semesters	Winter semester: S3 Summer semester: L, S1, S2			
Intake capacity	L: unrestricted; S1/S2/S3: 30;					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue As paired courses, the Lecture and Seminar 1 must be taken in the same semester. Autonomous work can be completed in the form of a tutorial for Seminar 1.					

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BG-BA-17		Fundamentals of Natural Sciences			3rd-4th sem.	9 CP
Module		Fundamentals of Natural Sciences				
Module code		06-BG BA-17				
Faculty/Subject/Department		FB 06, Institute of Sports Science				
Associated degree course(s)/Semester taken		BA, 3 rd -4 th semester				
Module coordinator		Cf. German version				
Prerequisites		None				
Learning outcomes	Students will					
	<ul style="list-style-type: none"> know about general and inorganic chemistry, especially atomic structure, redox reactions, acid-base reactions, the law of mass action, complex chemistry, and ion reactions be familiar with simple, technologically relevant reactions from inorganic chemistry know chemical and physical properties of the most important classes of organic substances be able to discuss basic organic reactions and their mechanisms understand the fundamentals of the synthesis and decomposition of nutrients have theoretical knowledge of biochemical metabolic processes understand connections and analogies in assimilation and dissimilation have an overview of the functional basics of how enzymes work 					
Module content	<ul style="list-style-type: none"> Separation of substances, elements, radioactivity Elementary particles, structure of the atom, quantum mechanics Periodic table, characteristics of the major classes Stoichiometry, mass and energy equivalence Lattice energy, Coulomb energy Formal charge, soluble product Hydrogen as a future energy source, oxygen Deterioration of the troposphere, ozone Redox reactions, gas laws Chemical equilibrium Acid-base theory, pH value, buffer Ions, electrochemistry Chemical bonds, molecules, functional groups Alkanes, alkenes, alcohols, ethers, thioethers, aldehydes, ketones Light absorption, mesomerism Carboxylic acids, lipids, aromatic compounds, amines Carbohydrates, amino acids, peptides and proteins Biochemical reactions Enzyme activity and ion milieu Synthesis and functions of ATP Synthesis and functions of NAD(P)H Oxidation and reduction Photosynthesis Synthesis and decomposition of carbohydrates Synthesis and decomposition of lipids Synthesis of bio-membranes Nitrogen assimilation Synthesis and decomposition of amino acids Structure and functions of proteins Nucleic acids Transcription and translation 					
	Form(s) of instruction		Lecture 100%			
Workload in hours	Total workload	270 hours = 9 ECTS credits				
	Course type and title	A Courses		B	C	
		a	b	Autono	Examina	
		Contact	Preparat	mous	tion incl.	
		hours	ion/revis	work	preparat	Total
L	Lecture: General Chemistry	60	60		15	135
L	Lecture: Biochemistry I	60	60		15	135
	Total	120	120		30	270
Module	Examination requirements	None				
	Method of assessment	L1: written examination; L2: written examination				
	Contribution to final mark	50% L1 examination, 50% L2 examination				
	Module-component retake examination	Written examination				

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	Module retake examination	Written examination		
Frequency	Annual	Duration: 2 semesters	Winter semester: L1	Summer semester: L2
Intake capacity	Unrestricted			
Language of instruction	German			
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue			

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BG-BA-18	Nutrition Physiology			5th sem.	6 CP	
Module	BKÖ 10 Nutrition Physiology					
Module code	06-BG-BA-18					
Faculty/Subject/Department	FB 09/Animal Nutrition/Institute of Animal Nutrition and Nutrition Physiology					
Associated degree course(s)/Semester taken	BA, 5 th semester					
Module coordinator	Cf. German version					
Prerequisites	None					
Learning outcomes	Students will					
	<ul style="list-style-type: none"> • know the chemical composition of the body and nutrition and how to determine such compositions • be able to explain digestion, transport, metabolic utilization, evaluation of nutrients, and the effect of fibre in nutrition physiology • have basic knowledge concerning energy balance (measuring methods, indicators, factorial model of energy demand, levels and efficiency of the utilization of nutritional energy , thermogenesis) • understand organ-specific metabolic reactions to nutrition, hunger, and fasting • have basic knowledge about important sources of nutrition, bioavailability, levels of supply , and functions and deficiency symptoms of vitamins and minerals • be familiar with methods used in nutrition physiology (balance, kinetic studies, biochemical and cell physiological markers) • be aware of connections between nutrition and health 					
Module content	<ul style="list-style-type: none"> • Components of nutrition and the body • General and methodological concepts of nutrition physiology • Carbohydrates, proteins, nucleic acids and lipids: digestion, influencing factors, absorption, metabolic utilization, physiological effects, evaluation based on nutrition physiology • Energy balance: methodology, determining and influencing factors, levels and efficiency of utilization of nutritional energy, heat balance • Vitamins and minerals (macro- and micronutrients): characteristics, occurrence in food, biological effects, functions and deficiencies, supply diagnosis 					
	Form(s) of instruction					
		Lecture 100%				
Workload in hours	Total workload	180 hours = 6 ECTS credits				
	Course type and title	A Courses		B	C	Total
		a	b	Autono	Examina	
		Contact hours	Preparat ion/revis ion	mous work	tion incl. preparat ion	
L	Lecture: Nutrition Physiology	60	90	30	180	
		Total	60	90	30	180
Module examination	Examination requirements					
	Method of assessment	Written examination				
	Contribution to final mark	100% examination				
	Module-component retake examination					
	Module retake examination					
Frequency	Annual	Duration: 1 semester	Winter semester:			
Intake capacity	Unrestricted					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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BG-BA-19	Human Nutrition		6th sem.	6 CP
Module	BKÖ 13 Human Nutrition			
Module code	06-BG-BA-19			
Faculty/Subject/Department	FB 09/Human Nutrition/Institute of Nutrition Science			
Associated degree course(s)/Semester taken	BA, 6 th semester			
Module coordinator	Cf. German version			
Prerequisites	Chemistry(BKÖ 01), Biochemistry I (BKÖ 06), Anatomic and Physiological Fundamentals of Sports Medicine , Nutrition Physiology (BKÖ 10)			
Learning outcomes	<p>Students should have basic knowledge of</p> <ul style="list-style-type: none"> the importance, functions, and metabolism of nutrients within humans, depending on age and different physiological and pathophysiological conditions; the occurrence and availability of nutrients in food; nutrient intake in the context of nutrition, including different kinds of nutrition; health-related consequences of nutrient deficiency and excess; measuring the state of nutrient supply; analyzing nutrient demand, recommendations for amounts of nutrients, and the fulfilment of demand in a population. <p>Students should also be able to apply their knowledge to different areas in their careers.</p>			
Module content	<ul style="list-style-type: none"> The human body and its components Energy balance and its regulation Energy-supplying nutrients (carbohydrates, fats, proteins) Water balance Minerals and micronutrients Vitamins 			
Form(s) of instruction	Lecture 100%			
Workload in hours	Total workload	180 hours = 6 ECTS credits		
	Course type and title	A Courses a Contact hours	B b Preparation/revision	C Autonomous work Examination incl. preparation
	L Lecture: Human Nutrition	60	90	30
	Total	60	90	30
Module examination	Examination requirements			
	Method of assessment	Written examination		
	Contribution to final mark	100% written examination		
	Module-component retake examination			
	Module retake examination			
Frequency	Annual	Duration : 1 semester	Summer semester:	
Intake capacity	Unrestricted			
Language of instruction	German			
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue			

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BG-BA-23	Bachelor's Thesis			6th sem.	13 CP
Module	Bachelor's Thesis				
Module code	06-BG-BA-23				
Faculty/Subject/Department	FB 06, Institute of Sports Science				
Associated degree course(s)/Semester taken	BA, 6 th semester				
Module coordinator	Cf. German version				
Prerequisites	See § 12 special regulations				
Learning outcomes	<p>Students will demonstrate their ability to</p> <ul style="list-style-type: none"> • work independently on a scientific problem • plan, conduct, and evaluate an empirical study • write an academic dissertation 				
Module content	<p>In writing the dissertation, students prove their ability to work independently on empirical experiments. They apply the technical and methodological knowledge acquired in their course of studies to a scientific experiment they have selected. They learn about the time management required for writing an academic dissertation. Students are supported as they apply their fundamental knowledge of academic work to the specific issues of the selected topic.</p>				
Form(s) of learning	Autonomous work/participation in meetings concerning planning, carrying out, evaluating, and writing the dissertation				
Workload in hours	Total workload	360 hours = 12 ECTS credits			
	Course type and title	A Courses a Contact hours	B b Preparation/revision	C Autonomous work	Examination incl. preparation Total
	Bachelor's dissertation			340	340
	Meetings with advisor	8	12		20
	30 hours of experimental work			30	30
	Total	8	12	370	390
Module examination	Examination requirements	Synopsis of planned dissertation; proof of 30 hours of experimental work submitted with bachelor's dissertation			
	Form(s) of assessment	Timely submission of the dissertation within 90 days			
	Contribution to final mark	Grade on the bachelor's dissertation			
	Module-component retake examination				
Module retake examination	If the dissertation does not receive a passing grade, a new one must be written according to § 34 par.2 clause 2 <i>Allgemeine Bestimmung</i> (General Regulations)				
Frequency	Every winter semester	Duration: 90 days	Students can start writing their dissertation after they have completed the 5 th semester.		
Intake capacity	60 (with limits for each advisor)				
Language of instruction	German				
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue				

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Minors in the “Physical Activity and Health” Degree Programme

Students can choose from among three minors, each with 18 credit points:

- Psychology (three obligatory modules, 6 credit points each)
- Special Needs Education (two obligatory modules, 12 and 6 credit points)
- Economics and Business Studies

Students choose a minor with 18 credit points. If they choose Economics and Business Studies, they have a choice of three “packages”.

Minor: Psychology

R-PSY-BA-PM-03	General Psychology I					6 CP
Module	General Psychology I					
Module code	R-PSY-BA-PM-03					
Faculty/Subject/Department	06/Psychology/Department of General Psychology					
Associated degree course(s)/Semester taken	Bachelor’s in Music Science/Music Education / Semester Bachelor’s in Health and Physical Education/Semester					
Module coordinator	Cf. German version					
Prerequisites	None					
Learning outcomes	Students will learn <ul style="list-style-type: none"> • about important findings and concepts from research in perception, emotion, and motivation • about methods and results in general psychology • how to apply their knowledge of general psychology research and methods to specific research topics (active competencies) 					
Module content	<ul style="list-style-type: none"> • Perception • Emotion • Motivation 					
Form(s) of instruction	Lecture 100%					
Workload in hours	Total workload	180 hours = 6 ECTS credits				
	Course type and title	A Courses	B	C		
		a Contact hours	b Preparati on/revisi on	Autonom ous work	Examinati on incl. preparati on	Total
	L1 Lecture: General Psychology (I)	30	30	0	30	90
L2 Lecture: General Psychology (I)	30	30	0	30	90	
	Total	60	60	0	60	180
Module examination	Examination requirements	Frequent and active participation				
	Method of assessment	L1: written examination (2 hours); L2: written examination (2 hours)				
	Contribution to final mark	Average grade of the two courses				
	Module-component retake examination	If the module is not passed, the student must pass a 30-minute oral examination.				
	Module retake examination	If the module-component retake examination is not passed, the student must pass a 45-minute oral examination covering all material learned in the module.				
Frequency	Annual	Duration: 2 semesters		Winter semester: L1; Summer semester: L2		
Intake capacity	60					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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R-PSY-BA-PM-05		Developmental Psychology				6 CP
Module		Developmental Psychology				
Module code		R-PSY-BA-PM-05				
Faculty/Subject/Department		06/Psychology/Department of Developmental Psychology				
Associated degree course(s)/Semester taken		Bachelor's in Music Science / Music Education/Semester Bachelor's in Health and Physical Education/Semester				
Module coordinator		Cf. German version				
Prerequisites		None				
Learning outcomes	<p>Students will</p> <ul style="list-style-type: none"> acquire basic knowledge of the theories and methods of developmental psychology be able to apply those theories and methods to different areas of developmental psychology learn about applying research from developmental psychology 					
Module content	<ul style="list-style-type: none"> History, basic concepts, and methods of developmental psychology Development of the psychomotor domain, perception, cognition, language, emotion, morals, attachment, gender typing Development in specific age groups: early childhood, adolescence, and old age Importance of family, peers of the same age, and culture for human development 					
Form(s) of instruction		Lecture 100%				
Workload in hours	Total workload	180 hours = 6				
	Course type and title	A Courses		B	C	
		A	b	Autono	Examina	
		Contact	Preparat	mous	tion incl.	
		hours	ion/revis	work	preparat	Total
	L1 Developmental Psychology I	30	30	0	30	90
	L2 Developmental Psychology II	30	30	0	30	90
	Total	60	60	0	60	180
Module examination	Examination requirements	Frequent and active participation				
	Method of assessment	L1: written examination (2 hours) L2: written examination (2 hours)				
	Contribution to final mark	Average grade of the two courses				
	Module-component retake examination	If the module is not passed, students must take a two-hour examination covering all material learned in the module.				
	Module retake examination	If the module-component retake examination is not passed, students must pass 45-minute oral examination covering all material learned in the module.				
Frequency	Annual	Duration: 2 semesters		Winter semester: L1 Summer semester: L2		
Intake capacity	60					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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R-PSY-BA-PM-11		Clinical Psychology				6 CP
Module		Clinical Psychology				
Module code		PSY-BA-PM-11				
Faculty/Subject/Department		06/Psychology and Sports Science/Department of Clinical and Biological Psychology				
Associated degree course(s)/Semester taken		Bachelor's in Health and Physical Education/Semester				
Module coordinator		Cf. German version				
Prerequisites						
Learning outcomes	<p>Students will</p> <ul style="list-style-type: none"> • acquire general knowledge of the different fields within clinical psychology • acquire basic knowledge of research methods used in clinical psychology • learn about the nosology of mental disorders • acquire general knowledge of the major psychotherapeutic techniques and their mechanisms of action 					
Module content	<ul style="list-style-type: none"> • Fields within clinical psychology (behavioural medicine, rehabilitation, prevention, intervention) • Clinical psychology in the context of health care • Research methods of clinical psychology • Classification of mental disorders • Perception of major mental disorders • Psychotherapeutic methods • Psychotherapy research 					
Form(s) of instruction		Lecture 100%				
Workload in hours	Total workload	180 hours = 6 ECTS credits				
	Course type and title	A Courses		B	C	
		a	b	Autonomous work	Examination incl. preparation	Total
		Contact hours	Preparation/revision			
	L1 Lecture: Clinical Psychology I	30	30		30	90
	L2 Lecture: Clinical Psychology II	30	30		30	90
	Total	60	60		60	180
Module examination	Examination requirements	Frequent and active participation and reading the required literature				
	Method of assessment	L1: written examination (2 hours) V2: written examination (2 hours)				
	Contribution to final mark	Average grade of the two courses				
	Module-component retake examination	If the module is not passed, students must take a two-hour written examination covering all material learned in the module.				
	Module retake examination	If the module-component retake examination is not passed, students must pass 45-minute oral examination covering all material learned in the module.				
Frequency	Annual	Duration: 2 semesters	Winter semester: L1 Summer semester: L2			
Intake capacity	45					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

Minor: Special Education

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NB-HSP-1-BA-BuG	Therapeutic and Special Needs Education I		9 CP
Module	Therapeutic and Special Needs Education I		
Module code	NB-HSP-1-BA-BuG		
Faculty/Subject/Department	FB 03/Education/HSP		
Associated degree course(s)/Semester taken	BA Exercise Studies and Health		
Module coordinator	Cf. German version		
Prerequisites	None		
Learning outcomes	Students will <ul style="list-style-type: none"> • have an overview of topics within integration-focused and special education • be able to reflect on educational and funding institutions with a special needs focus and on special needs education as a profession in a historical and societal context • understand the structure of and basic concepts and topics within the discipline • reflect on concept, model, and theory formation in special education as well as their classification and value 		
Module content	<ul style="list-style-type: none"> • Historical and current development of institutions specialising in special needs and integration-focused education with an eye toward their importance in society throughout history • Analyses of methods in special education with a focus on professional theory • Introduction to the problems of heterogeneous learning groups • Pedagogical concepts for integration in and outside of school • Experiential and behavioural impairments in persons with an intellectual disability • Basic institutional, organisational, and legal conditions for supporting children and youth with learning disabilities 		
Form(s) of instruction	3 lectures		
Total workload	270 hours	Credit points 9 ECTS credits	
consisting of:	A	B	C
A Courses	Lecture in winter semester All HSP I.1	Lecture in winter semester PB I.1	Lecture in winter semester LH I.1
Aa Contact hours	30 hours	30 hours	30 hours
Ab Preparation/revision, LN	30 hours	30 hours	30 hours
B Autonomous work C Examination incl. preparation	90 hours		
Form of assessment and contribution to final mark	Assessment/mark: Written examination in A 33%, written examination in B 33%, written examination in C 33%		
Module-component retake examination	Module-component retake examination: 30-minute oral examination		
Module retake examination	Module retake examination: 45-minute oral examination		
Frequency, duration	Annual, 1 semester		
Intake capacity			
Language of instruction	German		

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NB-HSP-2-BA-BuG	Therapeutic and Special Education II		9 CP
Module	Therapeutic and Special Needs Education II		
Module code	NB-HSP-2-BA-BuG		
Faculty/Subject/Department	FB 03/Education/HSP		
Associated degree course(s)/Semester taken	BA Exercise Studies and Health		
Module coordinator	Cf. German version		
Prerequisites	None		
Learning outcomes	Students will know <ul style="list-style-type: none"> the structure of and concepts and topics in the field of education for children with behavioural disorders topics, objectives, intervention possibilities, and career options in speech therapy topics, objectives, and methods of early diagnosis and early support as concepts within diagnostics and education. 		
Module content	<ul style="list-style-type: none"> Prevalence, epidemiology, causes, factors, and basic conditions for intervention as partial aspects of education for children with behavioural disorders The variety of language, speech, and voice disorders in children and their causes, epiphenomena, and after-effects, as well as phonetic, linguistic, and neuropsychological fundamentals of speech therapy Methods of diagnosing sensorimotor, pre-operational, and operational development with the correlates cognitive, psychomotor, linguistic, and emotional/social development, as well as methods of diagnosing the progression of skills leading to written language acquisition 		
Form(s) of instruction	3 lectures		
Total workload	270 hours	Credit points 9 ECTS credits	
consisting of: A Courses	A Lecture in winter semester EH I.1	B Lecture in winter semester SHP I. 1	C Lecture in summer semester BA BFK Pro 4.1
Aa Contact hours	30 hours	30 hours	30 hours
Ab Preparation/revision, LN	30 hours	30 hours	30 hours
B Autonomous work C Examination incl. preparation	90 hours		
Form of assessment and contribution to final mark Module-component retake examination Module retake examination	Assessment/mark: Written examination in A 33%, written examination in B 33%, written examination in C 33%		
	Module-component retake examination: 30-minute oral examination Module retake examination: 45-minute oral examination		
Frequency, duration	Annual, 2 semesters		
Intake capacity			
Language of instruction	German		

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Minor: Business Administration

Please consult the Special Regulations for Business and Economics as a minor subject:

http://www.uni-giessen.de/cms/mug/7/findex35.html/7_35_NF

Courses for the 18-credit minor in business administration.

Choose from one of the following three packages, each consisting of three modules from the FB 02 bachelor's program:

Package A: Introduction to Business Administration/Organisation and Management/IT Systems

Package B: Introduction to Business Administration/Organisation and Leadership/Introduction to Accounting

Package C: Introduction to Business Administration/Economics for Minor Subject Students I/Economics for Minor Subject Students II

02-BWL:BA-B8-01	Introduction to Business Administration			1st semester	6 CP	
Module	Introduction to Business Administration					
Module code	02-BWL:BA-B8-01					
Faculty/Subject/Department	02/Business Administration/BWL 8					
Associated degree course(s)/Semester taken	BA Business Administration, 1 st semester					
Module coordinator	Cf. German version					
Prerequisites	–					
Learning outcomes	The module provides students with the basics of business administration. Starting with an introduction to the basic conditions, value chain, management, and tools of business administration, students then learn more about medium-sized enterprises and founding companies.					
Module content	<ul style="list-style-type: none"> - Fundamentals and basic conditions: subject matter and related topics - Value chain: procurement, production, sales, and finances - Management: human resources, organisation, and international activity - Tools: accounting and IT and communication systems. - Entrepreneurship: business plans and founding teams - Medium-sized enterprises: business succession and internationalisation 					
Form(s) of instruction	Lecture 50%/tutorial 50%					
Total workload	180 hours = 6 ECTS credits					
consisting of:		A Courses		B Autonomous work	C Examination incl. preparation	Total
		a Contact hours	b Preparation/revision, LN			
	Lecture	30	30	10	20	90
	Tutorial	30	30	10	20	90
	Total	60	60	20	40	180
Method of assessment	Final module examination: 2-hour written final examination					
Contribution to final mark	Written final examination 100%					
Retake examination	Next examination period					
Frequency	Winter semester (lecture and tutorial)		Duration: 1 semester			
Intake capacity	Unrestricted (lecture hall capacity)		Tutorial: unrestricted (lecture hall capacity)			
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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02-BWL:BA-B2-01	Organisation and Management		2nd semester	6 CP		
Module	Organisation and Management					
Module code	02-BWL:BA-B2-01					
Faculty/Subject/Department	02/Business Administration/BWL II: Management and Organisation					
Associated degree course(s)/Semester taken	BA Business Administration, 2 nd semester					
Module coordinator	Cf. German version					
Prerequisites	–					
Learning outcomes	Students learn the conceptual fundamentals of organisation and management. They are introduced to practical organisational concepts and learn how to develop and evaluate them.					
Module content	Theories of organisation and management that are central to business administration. Organisational approaches that focus on structure and logical decision-making. Management tasks, processes, and organisation. Design parameters and forms of organisation. Organisation as a management task. Communication as it relates to organisation and management.					
Form(s) of instruction	Lecture 50%, colloquium 50%					
Total workload	180 hours = 6 ECTS credits					
consisting of:		A Courses a Contact hours	b Preparation/ revision, LN	B Autonomous work	C Examination incl. preparation	Total
	Lecture	30	30	10	20	90
	Colloquium	30	30	10	20	90
	Total	60	60	20	40	180
Method of assessment Contribution to final mark Retake examination	Final module examination: 2-hour written final examination Written final examination 100% Next examination period					
Frequency	Summer semester (lecture and colloquium)		Duration: 1 semester			
Intake capacity	Unrestricted (lecture hall capacity)					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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02-BWL:BA-B6-01	ACT I (Introduction to Accounting)		1st semester	6 CP		
Module	Introduction to Accounting (ACT I)					
Module code	02-BWL:BA-B6-01					
Faculty/Subject/Department	02/ Business Administration/BWL VI					
Associated degree course(s)/Semester taken	BA Economics, 1 st semester/BA Business Administration, 1 st semester					
Module coordinator	Cf. German version					
Prerequisites	–					
Learning outcomes	<p>The goal of the Introduction to Accounting module is to impart basic knowledge of the objectives of external accounting and the technique of bookkeeping. Students will learn basic skills in bookkeeping and knowledge of financial statements. The main objective is to present, in an understandable and practical manner, the basic principles of bookkeeping and of annual accounts in accordance with commercial law.</p> <p>The theoretical fundamentals will be supported with practical information on logging typical business transactions, with a special focus on understanding the methods underlying those transactions. In tutorials, students can deepen the theoretical knowledge acquired in lectures with practical case studies.</p>					
Module content	<ul style="list-style-type: none"> - Purposes and aspects of financial accounting (documentation, information, assessment of profit distribution) - Basics, systems, and techniques of double-entry bookkeeping - Typical accounting cases in commercial and industrial companies (booking of changes in product stock, value added tax, personnel expenses, planned depreciation, depreciation on trade receivables, accruals, deferred items) - General ledger trial balances, preparation of balance sheets and income statements - Profit accounting for selected legal entities (individual enterprises, partnerships, and corporations) 					
Form(s) of instruction	Lecture 50% / tutorial 50%					
Total workload	180 hours = 6 ECTS credits					
consisting of:		A Courses a Contact hours	b Preparation/ revision, LN	B Autonomous work	C Examination incl. preparation	Total
	Lecture	30	30	10	20	90
	Tutorial	15	15	40	20	90
	Total	45	45	50	40	180
Method of assessment Contribution to final mark Retake examination	Final module examination: 2-hour written final examination Written final examination 100% Next examination period					
Frequency	Annually, winter semester		Duration: 1 semester			
Intake capacity	Unrestricted					
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue					

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02-BWL:BA-B9-01	IT Systems			3rd semester	6 CP				
Module	IT Systems								
Module code	02-BWL:BA-B9-01								
Faculty/Subject/Department	02/ Business Informatics/Business Administration and Business Informatics								
Associated degree course(s)/Semester taken	BA Economics, 3 rd sem./BA Business Administration, 3 rd sem.								
Module coordinator	Cf. German version								
Prerequisites	Experience with personal computers, the internet, and Office software								
Learning outcomes	Students will acquire basic knowledge of business informatics as an important field within application-oriented business administration: <ul style="list-style-type: none"> - configuration and functionality of IT systems - how and where to use IT in companies - using spreadsheets and database software to solve typical business problems - how and where to use e-business applications in companies 								
Module content	<ul style="list-style-type: none"> - IT systems: terminology, elements, landscapes - Hardware: structure, categories, peripherals - Software: operating systems and applications - Data: modelling and databases - Networks: wide and local area networks - Using spreadsheets for business administration - Using databases for business administration - Using the internet for business administration 								
Form(s) of instruction	Lecture (2 hours/week) 50%, tutorial (2 hours/week) 50%								
Total workload	180 hours = 6 ECTS credits								
consisting of:		A Courses		B Autonomous work	C Examination incl. preparation	Total			
		a Contact hours	b Preparation/revision, LN						
	Lecture	30	30				10	20	90
	Tutorial	30	30				10	20	90
	Total	60	60	20	40	180			
Method of assessment	Final module examination: 2-hour written final examination								
Contribution to final mark	Written final examination 100%								
Retake examination	Next examination period								
Frequency	Winter semester (lecture and tutorial)			Duration 1: semester					
Intake capacity	Lecture: unrestricted (lecture hall capacity)			Tutorial: unrestricted (lecture hall capacity)					
Language of instruction	German								
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue In this module and module BA-B9-02 (IT Management), a total of 25 students per semester can submit a written assignment (dissertation prerequisite).								

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02-VWL:BA-GN-01	Economics for Minor Subject Students I (Macroeconomics)		3rd sem.	6 ECTS credits		
Module	Macroeconomics					
Module code	02-VWL:Ba-GN-01					
Faculty/Subject/Department	02/ – Transition and Integration Economics					
Associated degree course(s)/Semester taken	Minor in Economics					
Module coordinator	Cf. German version					
Prerequisites	None					
Learning outcomes	Minor subject students will learn about the functioning of the macroeconomic cycle in its ex post relations (the definition and accounting systems) and its ex ante relations (macroeconomic theory). Analyses of real economic and monetary theory are linked to the basic macro-political options in the context of applied economics. Students will thus be able to discuss the main macroeconomic stability problems in a structured way. This module also serves as the basis for other modules in the department that can be chosen as minor subject modules under the current regulations governing minor subjects.					
Module content	An introduction to macroeconomic ex post analysis focuses on national accounting, money supply, and balance of payments. The ex ante analysis takes into account classical and Keynesian income and employment theory, inflation theory, growth theory approaches, and the monetary theory of foreign trade. Respective fundamental consequences of economic policy are discussed. Tutorials will be conducted in groups following along with the lecture with a focus on exercises featuring macroeconomic theory and practice as examination preparation. The model structures of cycle analysis and the equilibrium approach of static and dynamic macroeconomics will be discussed parallel to the lecture.					
Form(s) of instruction	Lecture 50%/tutorial 50%					
Total workload	180 hours = 6 ECTS credits					
consisting of:		A Courses a Contact hours	b Preparation/ revision, LN	B Autonomous work	C Examination incl. preparation	Total
	Lecture	30	30	10	20	90
	Tutorial	30	30	10	20	90
	Total	60	60	20	40	180
Method of assessment Contribution to final mark Retake examination	Final module examination: 2-hour written final examination Written final examination 100% Next examination period					
Frequency	Winter semester (lecture and tutorial)		Duration: 1 semester			
Intake capacity	Lecture: unrestricted (lecture hall capacity)		Tutorial: unrestricted (possible parallel classes)			
Language of instruction	German					
Additional information	Module guidance and literature: see notice board/Dates: see course catalogue In this module and module BA-B9-02 (IT Management), a total of 25 students per semester can submit a written assignment (dissertation prerequisite).					

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02-VWL:Ba-GN-02	Economics for Minor Subject Students II (Microeconomics)		3rd sem.	6 ECTS credits		
Module	Microeconomics					
Module code	02-VWL:Ba-GN-02					
Faculty/Subject/Department	02/ – Transition and Integration Economics					
Associated degree course(s)/Semester taken	Minor in Economics					
Module coordinator	Cf. German version					
Prerequisites	None					
Learning outcomes	<p>The course will help minor subject students understand the complexity of an economy's market and pricing systems. The microeconomic view is based on representations of the decision-making processes of consumers, producers, and government agencies, all of whom encounter each other within the system of goods, capital, and job markets and make decentralised coordination solutions possible in a principally market-based economy. At the same time, there are a number of disruptive factors, such as market failure conditions and alternative forms of coordination. Students will understand the microcosm of price-driven processes and, in turn, the ways micro-politics can influence policies related to competition, taxes, and the environment. As a foundational lecture, the course also gives students access to more advanced courses from the optional minor subject modules in accordance with the minor subject regulations in effect for FB 02.</p>					
Module content	<p>Theories regarding private households and private businesses provide the foundation for an analysis of pricing on various types of markets (perfect and imperfect competition). Allocation efficiency on product and factor markets will be discussed and connected to concentration and distribution problems in theory and policy. Theoretical approaches to explanation and political consequences (for environmental policy, competition policy, etc.) can be formulated based on market failure conditions (such as problems related to external effects, public goods, etc.). The tutorial is conducted in groups and corresponds to the lecture. Tasks and solutions from cases included in the examination are discussed and applications of theory are presented in accordance with the lecture schedule. Processes of market coordination and market failure will be discussed with a focus on the lessons that can be drawn from them.</p>					
Form(s) of instruction	Lecture 50% / tutorial 50%					
Total workload	180 hours = 6 ECTS credits					
consisting of:		A Courses		B Autonomous work	C Examination incl. preparation	Total
		a Contact hours	b Preparation/revision			
	Lecture	30	30	10	20	90
	Tutorial	30	30	10	20	90
	Total	60	60	20	40	180
Method of assessment	Final module examination: 2-hour written final examination					
Contribution to final mark	Written final examination 100%					
Module retake examination	Next examination period					
Frequency	Summer semester (lecture and tutorial)		Duration: 1 semester			
Intake capacity	Lecture: unrestricted (lecture hall capacity)		Tutorial: unrestricted (lecture hall capacity)			
Language of instruction	German					
Additional information	<p>Module guidance and literature: see notice board/Dates: see course catalogue In this module and module BA-B9-02 (IT Management), a total of 25 students per semester can submit a written assignment (dissertation prerequisite).</p>					