

Subdivided Module Catalogue for the Subject

Exercise Science and Training

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

> Examination regulations version: 2023 Responsible: Faculty of Human Sciences Responsible: Institute of Sport Science



Learning Outcomes

Scientific Qualification

- The students have acquired a deep understanding of fundamental constructs, theories and models, as well as training and diagnostic methods in sport and exercise science. They can identify and analyze various influencing factors on processes related to the development and maintenance of different functional systems through physical activity and/or training in the domains of sports. They are capable of categorizing, discussing, and addressing exercise science questions based on evidence. Furthermore, they are aware of current research questions in sport and exercise science and can present and discuss them in a nuanced manner.
- The students are familiar with and understand various specialized training tools and training methods, and practical concepts for the development and maintenance of different functional systems in various domains of sports. Using the acquired subject-specific and methodological competencies, they can highlight, classify, and compare the different advantages and disadvantages of specific training tools, methods, and action concepts. They can also derive recipient-specific implementations in the practical domains of sports.
- They can independently analyze, address, and present a research question in the field of sport and exercise science from various perspectives and objectives.
- The students acquire advanced methodological skills in scientific working, data set evaluation and data analysis, and scientific communication. They can independently identify and analyze these methods and evaluate and discuss them in the relevant context. They can select, apply, and interpret these methodological skills for specific questions in the field.
- The students are familiar with various valid and reliable diagnostic methods and monitoring technologies in various application areas of sports, and can choose, apply, and evaluate them in a way that is suitable for the intended recipients. They can analyze and interpret the results and derive recommendations for applied sports in different domains. The students develop methodological skills in practical work with various diagnostic procedures.
- The students are capable of independently and systematically conducting empirical studies in the field of sports science according to scientific criteria, evaluating them using the latest methods, and relating the findings to theoretical concepts, models, and theories.

Ability to take up qualified employment

- The students have acquired professional knowledge, serving as the foundation for independent action in various fields within the realm of sports science, including research-oriented institutions, clubs, sports associations, and companies within the sports industry. Furthermore, the competencies gained during the course enable self-directed learning. This process combines personal and social skills with the acquisition of professional knowledge. In addition, fundamental insights and knowledge about institutions and organizations are conveyed. The practical phase also serves the purpose of reflecting on one's own professional self-concept and professional ethics.
- The students have acquired professional knowledge to implement the conceptual development, planning, and dissemination of training processes into practice at the interface between science and practice.

Empowerment for civic engagement

Graduates have developed the willingness and ability to contribute their skills to participatory processes and actively participate in decision-making. They possess extensive knowledge regarding (sports) scientific and societal issues and can substantiate their positions.

Personal development

Graduates are capable of working independently and taking personal responsibility. They can collaboratively work with other individuals or groups. Graduates can convey their conclusions



and the underlying information and motivations clearly, based on the current state of research. They are able to engage in discussions with experts, athletes, and laypersons on information, issues, and solutions at a scientific level.



Abbreviations used

Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\ddot{\mathbf{U}} = \text{exercise}$, $\mathbf{V} = \text{lecture}$

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

ASP02015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

15-Feb-2023 (2023-21)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.



The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page					
Compulsory Courses (80 E	Compulsory Courses (80 ECTS credits)								
06-EST-TAM-232-m01	Theories and Models	5	NUM	23					
06-EST-ATM-232-m01	Advanced Training Methods	5	NUM	7					
06-EST-INF-232-m01	Influencing Factors	5	NUM	10					
06-EST-TAD-232-m01	Advances in Technologies	5	NUM	22					
06-EST-COT-232-m01	Current Trends	5	NUM	8					
06-EST-INM-232-m01	Information Management	5	NUM	11					
06-EST-REM-232-m01	Research Methods	5	NUM	17					
06-EST-DIM-232-m01	Diagnostic Methods	5	NUM	9					
06-EST-MOT-232-m01	Monitoring Technology	5	NUM	13					
06-EST-RPS-232-m01	Research Project Skills	5	NUM	18					
06-EST-ANI-232-m01	Data Analysis and Interpretation	5	NUM	6					
06-EST-SCC-232-m01	Science Communication	5	NUM	20					
06-EST-SAI-232-m01	Interaction of Science and Application	5	NUM	19					
06-EST-SCL-232-m01	Scientific Debate	5	NUM	21					
06-EST-INT-232-m01	Internship	10	B/NB	12					
Compulsory Electives (10	ECTS credits)			,					
o6-EST-PRH-232-mo1	Intervention & Implementation Project - Health	10	B/NB	15					
06-EST-PRT-232-m01	Intervention & Implementation Project - Performance	10	B/NB	16					
Thesis (30 ECTS credits)	Thesis (30 ECTS credits)								
06-EST-MT-232-m01	Master-Thesis	30	NUM	14					



Module title					Abbreviation	
Data A	nalysis	and Interpretation			06-EST-ANI-232-m01	
Module	e coord	inator		Module offered by		
		Chair of Integrative and Ex	xperimental Exercise	Institute of Sport So	cience	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
Basic and advanced methods of statistical evaluation of data (e.g., data management, exploratory data analysis, descriptive statistics, analytical statistics, correlation measures, correlations, regressions, analysis of variance). Aspects of the selection, applicability and evaluation of statistical methods are discussed. Methods for the visual processing of data are discussed.						
Intend	ed learı	ning outcomes				
Intended learning outcomes Students acquire methodological skills in basic and advanced methods of statistical evaluation of data. They know and understand these methods, can evaluate and compare them with other methods. The students can select and apply the appropriate statistical methods for specific questions of the subject and are able to interpret the results.						

 $\textbf{Courses} \ (\textbf{type}, \textbf{number of weekly contact hours, language} \underline{-} \ \textbf{if other than German})$

S (2)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Modul	Module title Abbreviation					
Advanced Training Methods					o6-EST-ATM-232-mo1	
Modul	e coord	linator		Module offered by		
		Chair of Integrative and E	xperimental Exercise	Institute of Sport Se	cience	
		raining				
ECTS		od of grading	Only after succ. com	ıpl. of module(s)		
5		rical grade				
Durati		Module level	Other prerequisites			
1 seme		graduate				
Conte					on in relation to the motor abili-	
snacks	s, unstr		op and maintain diffe	erent functional syst	sed strength training, exercise rems in the fields of health-rela-	
Intend	ed lear	ning outcomes				
tools, alth-re	training lated s		of actions, and can pr , fitness sports and/c	ovide a targeted import competitive sports		
VL (2)		it in: English	, , ,		,	
		sessment (type, scope, la			ation offered — if not every seme-	
		nation (approx. 60 minut ssessment: English	es)			
Alloca	tion of	places				
Additional information						
Worklo	Workload					
150 h						
Teaching cycle						
Teachi	Teaching cycle: once a year					
	5 7					

Referred to in LPO I (examination regulations for teaching-degree programmes)

Master's degree (1 major) Exercise Science and Training (2023)

Module appears in



Curren	e title				Abbreviation		
	Current Trends				06-EST-COT-232-m01		
Modul	e coord	inator		Module offered by			
		Chair of Integrative and	d Experimental Exercise	Institute of Sport Sc	ience		
ECTS	Meth	od of grading	Only after succ. con	ıpl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ester	graduate					
Conter	nts						
system sports,	ns with , and/o				maintaining different functional rts, recreational sports, fitness		
The students know and understand current topics and trends about processes for developing and maintaining different functional systems through physical activity and/or training in the fields of health-related sports, recreational sports, fitness sports, and/or competitive sports. They can analyze, classify, discuss and reflect on various and current topics and trends related to processes for developing and maintaining functional systems							
through physical activity and/or training. Courses (type, number of weekly contact hours, language — if other than German)							
	S (2) Module taught in: English						
Course S (2)			mact nours, language –	IT other than Germa	n)		
Course S (2) Modulo Metho	e taugh	t in: English sessment (type, scope		an German, examina	n) tion offered — if not every seme-		
S (2) Modulo Methoster, in Assess (15 to 3	e taugh d of ass nformat sment g	t in: English sessment (type, scope ion on whether module roup Seminar: a) oral	, language — if other tha e can be chosen to earn	an German, examina a bonus) didate each (approx.	tion offered — if not every seme- 30 minutes) or b) presentation		
Course S (2) Modulo Metho ster, in Assess (15 to 3 Langua	e taugh d of ass nformat sment g	t in: English sessment (type, scope ion on whether module roup Seminar: a) oral ites) with written elaborssessment: English	, language — if other tha e can be chosen to earn examination of one cano	an German, examina a bonus) didate each (approx.	tion offered — if not every seme- 30 minutes) or b) presentation		
Course S (2) Modulo Metho ster, in Assess (15 to 3 Langua	e taugh d of ass nformat sment g 30 minu age of a	t in: English sessment (type, scope ion on whether module roup Seminar: a) oral ites) with written elaborssessment: English	, language — if other tha e can be chosen to earn examination of one cano	an German, examina a bonus) didate each (approx.	tion offered — if not every seme- 30 minutes) or b) presentation		

Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module title					Abbreviation		
Diagnostic Methods					o6-EST-DIM-232-mo1		
Modul	e coord	inator		Module offered by			
		Chair of Integrative and	d Experimental Exercise	Institute of Sport S	cience		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ester	graduate					
Conter	nts						
compe	titive s	ports (e.g., performand		bilities, anthropome	nal sports, fitness sports, and/or etry, body composition, muscle ific diagnostics).		
Intend	ed lear	ning outcomes					
or com	The students know various diagnostic methods in health-related sports, recreational sports, fitness sports, and/or competitive sports and can select, apply and evaluate them appropriately for a target group. Additionally, they can interpret the respective results and provide recommendations for sports practice. The students will be able to develop methodological skills in practical work with different diagnostic procedures.						
Courses (type, number of weekly contact hours, language — if other than German)							
S (2) Module taught in: English							
			, language — if other th		ation offered — if not every seme-		

ster, information on whether module can be chosen to earn a bonus)

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in



Module title					Abbreviation		
Influen	cing Fa	actors			06-EST-INF-232-m01		
Modul	e coord	inator		Module offered by			
		Chair of Integrative and E raining	xperimental Exercise	Institute of Sport So	cience		
ECTS	Metho	od of grading	Only after succ. con	ıpl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ıts						
cesses	for dev		different functional	systems through phy	nencing factors involved in pro- ysical activity and/or training in mpetitive sports.		
Intend	ed lear	ning outcomes					
loping alth-re	The students can describe and understand various influencing factors that are involved in processes for developing and maintaining different functional systems through physical activity and/or training in the fields of health-related sports, recreational sports, fitness sports and/or competitive sports. They can analyze, classify, and evaluate these influencing factors as well as provide targeted recommendations for action.						
Course	s (type	, number of weekly conta	act hours, language –	if other than Germa	ın)		
S (2) Module taught in: English							
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)							

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation

Allocation of places

Language of assessment: English

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

(15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages)

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Module appears in



		(A(y)) -		V,			
Module	e title				Abbreviation		
Inform	ation N	lanagement			06-EST-INM-232-m01		
Module	e coord	inator		Module offered by			
holder	of the	Chair of Integrative and E	xperimental Exercise	Institute of Sport Se	cience		
Scienc							
ECTS		od of grading	Only after succ. com	ipl. of module(s)			
5	L	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	-	graduate					
Conten	ts						
		s of information processins, data aggregation) are			ming skills (e.g., data literacy, da-		
Intend	ed lear	ning outcomes					
		know basic concepts of in Students can apply basi			nology and can describe and or themselves.		
		, number of weekly conta		•			
S (2)		t in: English					
		sessment (type, scope, la			ntion offered — if not every seme-		
(15 to 3	o mini	roup Seminar: a) oral exa ites) with written elabora ssessment: English			. 30 minutes) or b) presentation pages)		
Allocat	ion of	olaces					
Additio	nal inf	ormation					
	-						
Worklo	ad						
150 h	150 h						
Teachi	Teaching cycle						
Teachi	Teaching cycle: once a year						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in						



Module	e title				Abbreviation	
Internship					06-EST-INT-232-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of Integrative and Experimen Science and Training			xperimental Exercise	Institute of Sport So	cience	
ECTS	Meth	od of grading	Only after succ. con	ipl. of module(s)		
10	(not)	successfully completed				
Duration Module level		Other prerequisites				
1 semester graduate						
Conten	Contents					

Eight-week internship in an institution in the fields of health-related sports, recreational sports, fitness sports and/or competitive sports or in a scientific institution. The internship can be completed in Germany or abroad.

Intended learning outcomes

To gather experience with professional competencies and acquire professional knowledge in the fields of health-related sports, recreational sports, fitness sports and/or competitive sports, or in the scientific field. Acquisition of practical professional and methodological skills as well as social and personal skills during the internship. The students can practice, assess, evaluate and critically reflect practical relevant knowledge from their studies and transfer this knowledge to professional practice.

Courses (type, number of weekly contact hours, language — if other than German)

R (4)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

placement report (approx. 8 pages) Language of assessment: English

Allocation of places

Additional information

Duration of practical course: 8 weeks.

Prior to the placement, approval must be obtained from the placement supervisor.

Workload

300 h

Teaching cycle

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in



Module title					Abbreviation		
Monito	oring Te	echnology			o6-EST-MOT-232-mo1		
Modul	e coord	inator		Module offered by	'		
		Chair of Integrative and E	xperimental Exercise	Institute of Sport So	cience		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)			
5		rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ester	graduate					
Conter	nts						
of mon	itoring nal spo	technologies and develorts, fitness sports, and/	pment of concepts a	nd/or recommendati	n, evaluation, and interpretation ions for health-related sports, re-		
Intended learning outcomes The students know various monitoring technologies in health-related sports, recreational sports, fitness sports, and/or competitive sports. They can select, apply, evaluate, interpret results and develop concepts and/or recommendations for action in relation to health-related sports, recreational sports, fitness sports, and/or competitive sports.							
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	nn)		
S (2) Module taught in: English							
Method of assessment (type, scope, language $-$ if other than German, examination offered $-$ if not every semester, information on whether module can be chosen to earn a bonus)							

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module	e title	,			Abbreviation	
Master-Thesis				•	06-EST-MT-232-m01	
Module	e coord	inator		Module offered by		
		Chair of Integrative a raining	nd Experimental Exercise	Institute of Sport So	cience	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
30	nume	rical grade				
Duratio	on	Module level	Other prerequisites	Other prerequisites		
1 semester graduate						
Conten	Contents					

Independent preparation of an English-language document (Master thesis) to work on and answer a relevant question from the (sport) scientific field, under consideration of scientific standards. The research question, hypothesis, methods, results, discussion, and practical recommendations should be presented conclusively and comprehensibly and correspond to the international scientific standard.

Intended learning outcomes

Methodological and self-competence in scientific working and writing. Students can plan, structure, execute, evaluate, discuss, and write a scientific thesis, considering scientific standards. Based on the results of the Master thesis, students can derive recommendations for sports practice and future scientific work.

Courses (type, number of weekly contact hours, language — if other than German)

No courses assigned to module Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Master's thesis (approx. 80 pages) Language of assessment: English

Allocation of places

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Additional information

Time to complete: 6 months.

Registration on a continuous basis as agreed upon with supervisor

Workload

900 h

Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module	Module title Abbreviation							
Interve	Intervention & Implementation Project - Health 06-EST-PRH-232-mo1							
Module	coord	inator		Module offered by				
holder Science		Chair of Integrative and Ex	xperimental Exercise	Institute of Sport S	cience			
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)				
10		successfully completed		•				
Duratio	n	Module level	Other prerequisites					
1 seme	ster	graduate						
Conten	ts							
evaluat	tion stu	ıdy, training intervention,	survey, proof of con-	cept) and/or design	ining study, prevention project, ing a conceptual framework for nd health-preserving setting.			
Intende	ed lear	ning outcomes	-					
lations implem	regard entation metho	ing maintaining, improvi on in different target grou	ng or regaining health ps with a health-proi	n) and/or design cor moting and health-p	projects (e.g., for specific popunceptual frameworks for practical preserving setting. The students ic project implementation and			
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	an)			
R (4) Module	e taugh	t in: English						
		sessment (type, scope, la			ation offered — if not every seme-			
(15 to 3	o minu	roup Seminar: a) oral exa ites) with written elabora ssessment: English			. 30 minutes) or b) presentation pages)			
Allocat	ion of p	olaces						
Additio	nal inf	ormation						
Worklo	Workload							
300 h	300 h							
Teachi	Teaching cycle							
Teachi	Teaching cycle: once a year							
	Referred to in LPO I (examination regulations for teaching-degree programmes)							

Master's degree (1 major) Exercise Science and Training (2023)

Module appears in



Module		Implementation Project		Abbreviation				
interve	Intervention & Implementation Project - Performance 06-EST-PRT-232-mo1							
Module	e coord	inator		Module offered by				
holder	of the	Chair of Integrative and E	xperimental Exercise	Institute of Sport S	cience			
Science	1							
ECTS		od of grading	Only after succ. com	ıpl. of module(s)				
10		successfully completed						
Duratio		Module level	Other prerequisites					
1 seme		graduate						
Conten	ts							
evaluat	tion stu al impl	ıdy, training intervention,	survey, proof of cond	cept) and/or design	ining study, prevention project, ing a conceptual framework for tness sports, or competitive			
Intende	ed lear	ning outcomes						
cal imp studen on and	lemen ts acqu evalua	tation in different target g Jire methodological, soci	groups within recreati al and personal skills	onal sports, fitness in the field of (spor	nceptual frameworks for practi- sports, or competitive sports. The t)scientific project implementati-			
VL (2)	Cippe	, number of weekly conta	et nours, tanguage	ii otilei tilali delille	A11)			
Method		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-			
(15 to 3	o mini	roup Seminar: a) oral exa ites) with written elabora issessment: English			. 30 minutes) or b) presentation pages)			
Allocat	ion of	olaces	,					
Additio	nal inf	ormation						
								
Worklo	Workload							
300 h								
Teachi	Teaching cycle							
Teachi	Teaching cycle: once a year							
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)							

Master's degree (1 major) Exercise Science and Training (2023)

Module appears in



Module title					Abbreviation		
Research Methods					o6-EST-REM-232-mo1		
Modul	e coord	linator		Module offered by			
holder of the Chair of Integrative and Ex Science and Training			nd Experimental Exercise	Institute of Sport S	cience		
ECTS	Meth	od of grading	Only after succ. con	Only after succ. compl. of module(s)			
5	nume	erical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conter	ıts		,				
Intender The stuvantage They can dents of	ds, pubed lear udents es of a an ider can sel	ning outcomes acquire advanced medvanced methods in attify these methods of ect, apply and interp	entific writing). ethodological competenc scientific work and can cl in their own and evaluate ret adequate research me	ies. The students kn assify them and cor and discuss them ir thods for specific qu	now the advantages and disadmare them to other methods. In the respective context. The stuuestions related to the subject.		
Course	s (type	, number of weekly o	ontact hours, language –	- if other than Germa	an)		
S (2) Module taught in: English							
			oe, language — if other th ule can be chosen to earn		ation offered — if not every seme-		
Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English							
Allocat	tion of	places					

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in



Module title					Abbreviation
Research Project Skills					o6-EST-RPS-232-mo1
Modul	e coord	inator		Module offered by	
holder of the Chair of Integrative and Experimental Exercise Science and Training			Experimental Exercise	Institute of Sport Science	
ECTS	Meth	od of grading	Only after succ. con	icc. compl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ıts				
ject pla	anning				The focus lies on general produced project evaluation for (sports)
Intended learning outcomes					
critical and me	ly reflect	cted evaluation within th of (project) managemen	e framework of a scie t in the (sport)scientif	ntific project. The st ic context and can d	I documentation as well as in udents know different theories escribe and compare them with f (project) management in a fu-

ture (sport)scientific project in a situation specific manner and interpret the results. **Courses** (type, number of weekly contact hours, language — if other than German)

S (2)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module title					Abbreviation	
Interaction of Science and Application					06-EST-SAI-232-m01	
Modul	e coord	inator		Module offered by		
holder of the Chair of Integrative and Experin Science and Training			d Experimental Exercise	Institute of Sport Science		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	1		
1 seme	ster	graduate				
Conten	its					
ted. Intend	ed learı	ning outcomes		, 	nentation process can be evalua-	
The stu	udents a	acquire in-depth and e scientific findings in pr	actice. The students ca		skills for the collaborative impleand evaluate essential methods	
		the implementation p	ntact hours, language –	if other than Corne		
S (2)		t in: English	itact flours, tallguage -	- II other than define	dil)	
			, language — if other the can be chosen to earn		ation offered — if not every seme-	
(15 to 3	Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English					
Allocation of places						
Additio	onal inf	ormation				

Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module title Al					Abbreviation	
Science Communication					o6-EST-SCC-232-mo1	
Module	e coord	inator		Module offered by		
		Chair of Integrative and E	xperimental Exercise	Institute of Sport Science		
ECTS	Metho	od of grading	Only after succ. con	c. compl. of module(s)		
5	nume	rical grade		'		
Duratio	on .	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
Presentation of various elements in science communication (e.g., scientific communication and scientific presentation, scientific discussion and argumentation, scientific manuscript preparation, steps of the publication process, third mission). Different possibilities of preparing information and knowledge (e.g., infographics, power point, science in social media) for different target groups in different areas of science communication are addressed and discussed.						
Intended learning outcomes						
quire s	ocial aı	nd personal skills related	l to communication a	nd cooperation in th	science communication. They ac e context of science communica- nunication and can assess and	

Courses (type, number of weekly contact hours, language — if other than German)

can prepare complex knowledge for different target groups.

S (2)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

discuss the respective advantages and disadvantages of these areas based on specific examples. The students

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module title					Abbreviation
Scientific Debate					06-EST-SCL-232-m01
Modul	e coord	inator		Module offered by	
holder of the Chair of Integrative and Experimental Exerci Science and Training			xperimental Exercise	Institute of Sport Science	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	merical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate	-		
Conter	ıts		,		
Research, presentation and discussion of current (sport)scientific research results and —methods for developing and maintaining different human functional systems through physical activity and/or exercise in the fields of health-related sports, recreational sports, fitness sports and/or competitive sports.					
Intended learning outcomes					
The students can identify, understand and critically interpret and discuss scientific publications on (sport)scientific research results and methods. The students can prepare and present (sport)scientific research results in a comprehensible and detailed manner, discuss them critically in the overall context of the topic and derive con-					

Courses (type, number of weekly contact hours, language — if other than German)

P (2)

Module taught in: English

clusions for applied sports and scientific work.

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages) Language of assessment: English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module title					Abbreviation		
Advances in Technologies					06-EST-TAD-232-m01		
Modul	e coord	inator		Module offered by			
holder of the Chair of Integrative and Experimental E Science and Training			xperimental Exercise	Institute of Sport S	cience		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ester	graduate					
Conter	nts						
Technological and digital developments (e.g., apps and wearables, artificial intelligence, training equipment) in relation to processes for developing and maintaining various functional systems through physical activity and/or training in the fields of health-related sports, recreational sports, fitness sports, and/or competitive sports. Intended learning outcomes Students know and understand various technological and digital developments for processes for developing and maintaining different functional systems through physical activity and/or training in the fields of health-related sports, recreational sports, fitness sports, and/or competitive sports. The students can explain, classify, and evaluate these developments. They can apply the technology to provide targeted recommendations for action.							
	Courses (type, number of weekly contact hours, language — if other than German)						
S (2) Module taught in: English							
$\label{lem:method of assessment} \textbf{Method of assessment} \ (type, scope, language-if other than German, examination offered-if not every semester, information on whether module can be chosen to earn a bonus)$							
	Assessment group Seminar: a) oral examination of one candidate each (approx. 30 minutes) or b) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or c) portfolio (15-20 pages)						

Allocation of places

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Additional information

Language of assessment: English

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Workload

150 h

Teaching cycle

Teaching cycle: once a year

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in



Module title					Abbreviation		
Theories and Models					06-EST-TAM-232-m01		
Modul	e coord	inator		Module offered by			
	of the (e and T		xperimental Exercise	se Institute of Sport Science			
ECTS		od of grading	Only after succ. con	ipl. of module(s)			
5		rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conter	nts						
theory, throug and/or	, socio- h physi compe	economic model) in the t cal activity and/or trainir etitive sports.	raining process to de	velop and maintain	model, behavior change, system different functional systems ecreational sports, fitness sports		
	-	ning outcomes			al competences about current		
sports. theorie	. Studei es and r	nts acquire the main met	hods and can theored elds of health-related	ically provide a targ	ness sports and/or competitive geted implementation of current l sports, fitness sports and/or		
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germ	an)		
VL (2) Modul	e taugh	t in: English					
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-		
		nation (approx. 60 minut ssessment: English	es)				
Allocat	Allocation of places						
Additional information							
Workload							
150 h	150 h						
Teaching cycle							
		e: once a year					
		LPO I (examination regu	lations for teaching-o	degree programmes	;)		

Master's degree (1 major) Exercise Science and Training (2023)

Module appears in