

Module Catalogue for the Module studies (Bachelor)

Quantum Technology

Examination regulations version: 2021 Responsible: Faculty of Physics and Astronomy

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MB|k29|-|-|H|2021



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Abbreviations used

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

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

15-May-2019 (2019-36) 27-Jun-2019 (2019-41) 14-Nov-2019 (2019-52) 22-Jan-2020 (2020-13) 06-May-2020 (2020-39) 22-Jul-2020 (2020-57) 17-Dec-2020 (2020-110) 10-Mar-2021 (2021-17)

Quantum Technology (2021)

09-Jun-2021 (2021-58) 22-Dec-2021 (2021-85) 05-Jul-2022 (2022-52) 31-Jan-2023 (2022-86) 15-Jun-2023 (2023-58) 13-Dec-2023 (2023-107) 07-Aug-2024 (2024-82) 22-Jan-2025 (2025-1)

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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.



Winter Term 2021

(ECTS credits)

Module title					Abbreviation
Current Topics in Physics				11-BXP8-152-m01	
Module coordinator				Module offered by	1
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
	•	of Experimental and The versity or study abroad.	oretical Physics. Acc	redited academic ac	hievements, e.g. in case of
Intend	ed learı	ning outcomes			
Theore subdis	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead t of asse nation	examin or pres tten exa ake the ssmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). o method of assessme tion of one candidate r must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Physics				11-BXP6-152-m01	
Module coordinator				Module offered by	1
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
	•	of Experimental and The versity or study abroad.	oretical Physics. Acc	redited academic ac	hievements, e.g. in case of
Intende	ed learı	ning outcomes			
Theore subdise	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead t of asse nation	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). o method of assessme tion of one candidate r must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
-					
Workload					
180 h					
Teachi	ıg cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics Physics					11-BXP5-152-m01
Module coordinator				Module offered b	y
chairp	erson o	f examination committe	e	Faculty of Physics	s and Astronomy
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	e required.
Conter	nts				
		of Experimental and Th versity or study abroad.	eoretical Physics. Acc	redited academic a	achievements, e.g. in case of
Intend	ed lear	ning outcomes			
Theore subdis knowle	etical Ph scipline edge. Th	ysics of the Bachelor's p of Physics and understa ney are able to classify t	programme of Nanosti and the measuring and he subject-specific co	ructure Technology I/or calculation m ntexts and know th	s of a module of Experimental or y. They have knowledge of a current ethods necessary to acquire this ne application areas.
	_	number of weekly contact hours,	language — if other than Ger	rman)	
V (2) +	R (2)				
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examir or pres tten exa take the essmen date at	aation in groups (groups sentation/talk (approx. g amination was chosen a e form of an oral examina	of 2, approx. 30 minu 30 minutes). 5 method of assessme ation of one candidate r must inform student	tes per candidate) ent, this may be ch e each or an oral ea	andidate each (approx. 30 minutes) or project report (approx. 8 to 10 nanged and assessment may in- kamination in groups. If the methoc ur weeks prior to the original exami-
	tion of		<u>, et 2</u>		
Additio	onal inf	ormation			
Worklo	bad		_		
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)	

Module	Module title Abbreviation						
Curren	t Topic	s in Quantum Technology	1		11-BXN5-212-m01		
Module	e coord	inator		Module offered by	,		
Manag	Managing Director of the Institute of Applied Physics Fa			Faculty of Physics a	and Astronomy		
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	undergraduate					
Conten	Its						
Current study a		in experimental physics.	. Credited academic	achievements, e.g. i	n case of change of university or		
Intende	ed lear	ning outcomes					
comma and eva the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sh	es and insight into the measuring he is able to classify and to link		
V (2) +							
Metho	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if n	ot every semester, information on whether		
b) oral c) oral d) repo e) pres lf a writ stead t of asse nation Langua	examir examin ort on p entatio tten exa cake the essmen date at age of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	or Inged and assessment may in- amination in groups. If the method weeks prior to the original exami-		
Allocat	ion of _l	olaces					
Additional information							
	-	examination committee	required.				
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	ammes)			

Module title Abbreviation					
Current	t Topic	s in Quantum Technology	1		11-BXN6-212-m01
Module	e coord	inator		Module offered by	·
Managi	Managing Director of the Institute of Applied Physics			Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Contents					
Current study a		in experimental physics.	. Credited academic a	achievements, e.g. i	n case of change of university or
Intende	ed lear	ning outcomes			
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V (3) +		,	0.0		
Method	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
b) oral c) oral c d) repo e) preso If a writ stead ta of asse nation Langua	examir examin rt on p entatio tten exa ake the ssmen date at ge of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessme tion of one candidate 7 must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	nged and assessment may in- imination in groups. If the method weeks prior to the original exami-
Allocat	ion of _l	olaces			
Additional information					
		examination committee	required.		
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Curren	t Topics	s in Quantum Technology	/		11-BXN8-212-m01
Module coordinator				Module offered by	
Manag	Managing Director of the Institute of Applied Physics			Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 semester undergraduate					
Conter	Its				
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea Course V (4) + Metho	ands kn aluatio rnt. He, s (type, r R (2) d of ass	n methods which are nec /She knows about fields number of weekly contact hours, l	d in Quantum Techno eessary to acquire this of application. anguage – if other than Ger	s knowledge. He/Sh man)	es and insight into the measuring le is able to classify and to link ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups or presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	candidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	ion of p	olaces			
		ormation			
Approval from examination committee required.					
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					Abbreviation
Select	ed Topi	cs in Energy and Materi	al Science		11-CSEM6-152-m01
Module coordinator				Module offered by	,
chairp	erson o	f examination committe	e	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	required.
Conter	nts				
Select	ed topic	s of energy and materia	als research.		
Intend	ed lear	ning outcomes			
tion m know t	ethods he app	necessary to acquire th lication areas.	is knowledge. They are	e able to classify the	stand the measuring and evalua- e subject-specific contexts and
	_	number of weekly contact hours	, language — if other than Ge	rman)	
V (3) +	R (1)				
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if r	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa take the essmen date at	ation in groups (groups entation/talk (approx. amination was chosen a form of an oral examin	s of 2, approx. 30 minu 30 minutes). as method of assessm ation of one candidate er must inform student	tes per candidate) ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami
Alloca	tion of p	olaces			
	_				
Additio	onal inf	ormation			
Workload					
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	immes)	

Module title					Abbreviation
Select	Selected Topics in Solid State Physics				11-CSF6-152-m01
Module coordinator				Module offered by	/
chairp	erson o	f examination committee	9	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Durati	on	Module level	Other prerequisites	i	
1 seme	ester	undergraduate	Approval from exam	nination committee	required.
Conter	nts				
Select	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
and ev	aluatio				and understand the measuring classify the subject-specific con-
Course	es (type, r	number of weekly contact hours,	language — if other than Ge	rman)	
V (3) +	R (1)				
		sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if i	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa take the essmen date at	ation in groups (groups entation/talk (approx. 3 amination was chosen a form of an oral examina	of 2, approx. 30 minu o minutes). s method of assessm ation of one candidate r must inform student	ites per candidate) ent, this may be chi e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the methoo r weeks prior to the original exami
Alloca	tion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	ed to in	LPOI (examination regulation	is for teaching-degree progra	ammes)	

Modul	e title				Abbreviation
Select	ed Topi	cs in Quantum Technolog	gy		11-CSN6-212-m01
Modul	e coord	inator		Module offered by	
Manag	Managing Director of the Institute of Applied Physics			Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 semester undergraduate					
Conter	nts		• •		
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea	ands kn aluatio Irnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring le is able to classify and to link
V (3) +	_				
Metho	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Approval from examination committee required.					
Workload					
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	



Summer Term 2022

(ECTS credits)

Module title Abbreviation					Abbreviation
Current Topics in Physics					11-BXP8-152-m01
Module	coord	inator		Module offered by	
chairpe	erson of	f examination committee	1	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	required.
Conten	ts				
	•	of Experimental and The versity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdise	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this application areas.
Courses	S (type, n	number of weekly contact hours,	language — if other than Ger	man)	
V (4) + I	R (2)				
		sessment (type, scope, langua le for bonus)	age — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups entation/talk (approx. 3) amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate r must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	Workload				
240 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Physics					11-BXP6-152-m01
Module	coord	inator		Module offered by	
chairpe	rson of	f examination committee	!	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	equired.
Content	ts				
	•	of Experimental and The /ersity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdisc	ical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ucture Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) + F	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachin	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics Physics					11-BXP5-152-m01
Module coordinator				Module offered b	y y
chairp	erson o	f examination committe	e	Faculty of Physics	s and Astronomy
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	e required.
Conter	nts				
		of Experimental and Th versity or study abroad.	eoretical Physics. Acc	redited academic	achievements, e.g. in case of
Intend	ed lear	ning outcomes			
Theore subdis knowle	etical Ph scipline edge. Th	ysics of the Bachelor's p of Physics and understa ney are able to classify t	programme of Nanosti and the measuring and he subject-specific co	ructure Technology d/or calculation m ntexts and know th	s of a module of Experimental or y. They have knowledge of a current ethods necessary to acquire this he application areas.
Course	es (type, r	number of weekly contact hours,	language — if other than Ger	rman)	
V (2) +	R (2)				
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if	f not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examir or pres tten exa take the essmen date at	aation in groups (groups sentation/talk (approx. g amination was chosen a e form of an oral examina	of 2, approx. 30 minu 30 minutes). 5 method of assessmo ation of one candidate er must inform student	tes per candidate) ent, this may be ch e each or an oral e:	andidate each (approx. 30 minutes)) or project report (approx. 8 to 10 nanged and assessment may in- xamination in groups. If the methoc ur weeks prior to the original exami
	tion of		<u>,</u> 0		
Additi	onal inf	ormation	_		
Worklo	bad				
150 h					
Teachi	ng cycl	e			
Referr	ed to in	LPO I (examination regulation	ns for teaching-degree progra	immes)	

Module title Abbreviation					
Current	t Topic	s in Quantum Technology	/		11-BXN5-212-m01
Module coordinator Module offered by					
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy
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	undergraduate			
Conten	ts				
Current study a		in experimental physics	. Credited academic	achievements, e.g. i	n case of change of university or
Intende	ed lear	ning outcomes			
comma and eva the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link
V (2) +			anguage — n other than de	liliali)	
Metho	d of ass	Sessment (type, scope, langua	ge — if other than German,	examination offered — if n	ot every semester, information on whether
b) oral c) oral d d) repo e) press lf a writ stead t of asse nation Langua	examir examin ort on p entatio tten exa ake the essmen date at age of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and	ach (approx. 30 minu of 2, approx. 30 minu 3 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	or Inged and assessment may in- Imination in groups. If the method Weeks prior to the original exami-
Allocat	ion of _l	olaces			
		ormation			
		examination committee	required.		
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)	

Module title Abbreviation					
Current	t Topic	s in Quantum Technology	/		11-BXN6-212-m01
Module coordinator Module offered by					
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Current study a		in experimental physics	. Credited academic	achievements, e.g. i	n case of change of university or
Intende	ed lear	ning outcomes			
comma and eva the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sh	es and insight into the measuring he is able to classify and to link
		number of weekly contact hours, i	anguage — If other than Ge	rman)	
V (3) +		accmont (· · · · · · · · · · · · · · · · · · ·	a har an ann an tar ta fa ma dtar ann a hada an
		le for bonus)	ge — If other than German,	examination offered — If n	ot every semester, information on whether
b) oral c) oral d d) repo e) press lf a writ stead t of asse nation Langua	examir examin ort on p entatio tten exa ake the essmen date at age of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	or anged and assessment may in- amination in groups. If the method weeks prior to the original exami-
Allocat	ion of _l	olaces			
		ormation			
		examination committee	required.		
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ummes)	

Module title Abbreviation					
Current Topics in Quantum Technology					11-BXN8-212-m01
Module coordinator				Module offered by	
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conter	Its				
	t topics abroad.	in experimental physics	. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed learı	ning outcomes			
comma and ev the lea	ands kn aluatior rnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link
V (4) +	-			many	
module i	s creditab	le for bonus)			ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa ake the essmen date at	ation in groups (groups or resentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	adidate each (approx. 30 minutes) on practical course (approx. 8 to nged and assessment may in- mination in groups. If the methoc weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
		examination committee	required.		
Worklo	ad				
240 h					
Teachi	ng cycl	е			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation	
Selected Topics in Energy and Material Science					11-CSEM6-152-m01	
Module coordinator				Module offered by	ц. ,	
chairp	erson o	f examination committe	e	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	undergraduate	Approval from exam	ination committee	required.	
Conter	nts					
Selecte	ed topic	s of energy and materia	als research.			
Intend	ed lear	ning outcomes				
tion m know t	ethods he app	necessary to acquire the ication areas.	is knowledge. They are	e able to classify the	stand the measuring and evalua- e subject-specific contexts and	
Course	es (type, r	umber of weekly contact hours	, language — if other than Ge	rman)		
V (3) +	R (1)					
		essment (type, scope, langule for bonus)	uage — if other than German,	examination offered — if n	ot every semester, information on whether	
or oral pages) If a wri stead t of asse nation	examin or pres tten exa take the essmen date at	ation in groups (groups entation/talk (approx. amination was chosen a form of an oral examin	s of 2, approx. 30 minu 30 minutes). Is method of assessme ation of one candidate er must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	oad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulatio	ns for teaching-degree progra	immes)		
			-			

Module title					Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	Its					
Selecte	ed topic	s of Solid-State Physics.				
Intend	ed lear	ning outcomes				
and ev	aluatio				nd understand the measuring classify the subject-specific con-	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (3) +	R (1)					
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	е				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title					Abbreviation
Selected Topics in Quantum Technology					11-CSN6-212-m01
Module coordinator				Module offered by	/
Manag	ging Dire	ector of the Institute of A	pplied Physics	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts				
	t topics abroad.		5. Credited academic a	achievements, e.g.	in case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea	ands kn valuatio urnt. He	n methods which are ne /She knows about fields	ld in Quantum Techno cessary to acquire this of application.	s knowledge. He/S	ces and insight into the measuring he is able to classify and to link
		number of weekly contact hours,	language — if other than Ger	man)	
V (3) +	R (1)		_		
		sessment (type, scope, langu Ile for bonus)	age — if other than German,	examination offered — if	not every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examir es) or p tten exa take the essmen date at	nation in groups (groups presentation/talk (appro amination was chosen a e form of an oral examina	of 2, 30 minutes per 6 x. 30 minutes). s method of assessme ation of one candidate r must inform student	candidate) or repor ent, this may be ch e each or an oral ex	ndidate each (approx. 30 minutes t on practical course (approx. 8 to anged and assessment may in- amination in groups. If the metho r weeks prior to the original exami
Allocat	tion of _l	olaces			
Additio	onal inf	ormation			
Approv	al from	examination committee	e required.		
Worklo	oad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)	



Winter Term 2022

(ECTS credits)

Module title Abbreviation					Abbreviation
Current Topics in Physics					11-BXP8-152-m01
Module	coord	inator		Module offered by	
chairpe	erson of	f examination committee	1	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	required.
Conten	ts				
	•	of Experimental and The versity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdise	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this application areas.
Courses	S (type, n	number of weekly contact hours,	language — if other than Ger	man)	
V (4) + I	R (2)				
		sessment (type, scope, langua le for bonus)	age — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups entation/talk (approx. 3) amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate r must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	Workload				
240 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Physics					11-BXP6-152-m01
Module	coord	inator		Module offered by	
chairpe	rson of	f examination committee	!	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	equired.
Content	ts				
	•	of Experimental and The /ersity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdisc	ical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ucture Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) + F	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachin	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title				Abbreviation
Current Topics Physics				11-BXP5-152-m01
Module coordinator			Module offered by	/
chairperson	of examination committe	e	Faculty of Physics	and Astronomy
ECTS Met	hod of grading	Only after succ. con	npl. of module(s)	
5 num	erical grade			
Duration	Module level	Other prerequisites		
1 semester	undergraduate	Approval from exam	ination committee	required.
Contents				
	cs of Experimental and Th niversity or study abroad.		redited academic a	chievements, e.g. in case of
Intended lea	arning outcomes			
Theoretical subdisciplir	Physics of the Bachelor's	programme of Nanosti and the measuring and	ructure Technology d/or calculation me	s of a module of Experimental or . They have knowledge of a current thods necessary to acquire this e application areas.
Courses (type	, number of weekly contact hours	s, language — if other than Ger	rman)	
V (2) + R (2)				
Method of a module is credit		uage — if other than German, o	examination offered — if	not every semester, information on whether
or oral exam pages) or pr If a written e stead take t of assessme nation date	ination in groups (groups esentation/talk (approx. xamination was chosen a he form of an oral examin	s of 2, approx. 30 minu 30 minutes). as method of assessme ation of one candidate er must inform student	tes per candidate) ent, this may be ch e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Allocation o		<u></u>		
Additional i	nformation			
Workload				
150 h				
Teaching cy	cle			
Referred to	In LPO I (examination regulation	ons for teaching-degree progra	immes)	
		0 0 1 0		

Module title Abbreviation						
Current Topics in Quantum Technology 11-BXN5-212-mo1						
Module	Module coordinator Module offered by					
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 semester undergraduate						
Conten	ts					
Current study a		in experimental physics	. Credited academic	achievements, e.g. i	n case of change of university or	
Intende	ed lear	ning outcomes				
comma and eva the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link	
V (2) +			anguage — n other than de	liliali)		
Metho	d of ass	Sessment (type, scope, langua	ge — if other than German,	examination offered — if n	ot every semester, information on whether	
 a) Written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) report on practical course (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 						
Allocat	ion of _l	olaces				
Additional information						
Approval from examination committee required.						
Workload						
150 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						

Module title Abbreviation						
Current	Current Topics in Quantum Technology 11-BXN6-212-m01					
Module coordinator Module offered by						
Managi	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duration Module level Other prerequisi			Other prerequisites	i		
1 semester undergraduate						
Conten	ts					
Current study a		in experimental physics.	. Credited academic	achievements, e.g.	in case of change of university or	
Intende	ed lear	ning outcomes				
comma and eva the lear	inds kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sl	es and insight into the measuring he is able to classify and to link	
V (3) +		iumber of weekly contact nours, t	anguage — n other than Ge	illidi)		
		Accment (type scope langua	go if other than Corman	ovamination offered if r	not every semester, information on whether	
		le for bonus)	ge – Il other than German,		iot every semester, information on whether	
 a) Written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) report on practical course (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 						
Allocat	ion of p	olaces				
Additional information						
Approval from examination committee required.						
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						

Module title Abbreviation						
Current Topics in Quantum Technology 11-BXN8-212-mo1						
Module	e coord	inator		Module offered by		
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con			
8	nume	rical grade				
		Other prerequisites	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
	t topics abroad.	in experimental physics	. Credited academic a	achievements, e.g. i	n case of change of university or	
Intend	ed lear	ning outcomes				
Technology on Bachelor's level. He/She commands knowledge in a current field in Quantum Technology or Nanosciences and insight into the measuring and evaluation methods which are necessary to acquire this knowledge. He/She is able to classify and to link the learnt. He/She knows about fields of application. Courses (type, number of weekly contact hours, language – if other than German)						
V (4) +	R (2)					
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if n	ot every semester, information on whether	
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa ake the essmen date at	ation in groups (groups resentation/talk (approx amination was chosen as form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	candidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to inged and assessment may in- amination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Approval from examination committee required.						
Workload						
240 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
		-	· · · ·			

Module title Abbreviation					Abbreviation	
Selected Topics in Energy and Material Science11-CSEM6-152-m01					11-CSEM6-152-m01	
Modul	e coord	inator		Module offered by		
chairperson of examination committee			e	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duration Module level Other prerequis			Other prerequisites	ites		
			Approval from exam	ination committee	required.	
Conter	nts					
Select	ed topic	s of energy and materia	als research.			
Intend	ed lear	ning outcomes				
tion m know t	ethods he app	necessary to acquire th ication areas.	is knowledge. They are	e able to classify th	rstand the measuring and evalua- e subject-specific contexts and	
		umber of weekly contact hours	, language — if other than Ge	rman)		
V (3) +	R (1)					
		essment (type, scope, langule for bonus)	uage — if other than German,	examination offered — if	not every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	tion of _l	olaces				
Additio	onal inf	ormation				
Workload						
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	immes)		

Module title					Abbreviation	
Selected Topics in Solid State Physics11-CSF6-152-m01						
Modul	e coord	inator		Module offered by	y	
chairperson of examination committee			e	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
		Other prerequisites	es			
			Approval from exam	ination committee	required.	
Conter	nts		<u> </u>			
Select	ed topic	s of Solid-State Physics	•			
Intend	ed lear	ning outcomes				
and ev	aluatio				and understand the measuring classify the subject-specific con-	
Course	es (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
V (3) +	R (1)					
		s essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if	not every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Alloca	tion of p	olaces				
Additio	onal inf	ormation				
Workload						
180 h						
Teaching cycle						
Referre	ed to in	LPOI (examination regulation	ns for teaching-degree progra	immes)		

Module title Abbreviation						
Selected Topics in Quantum Technology 11-CSN6-212-mo1						
Modul	e coord	inator		Module offered by		
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duration Module level Oth		Other prerequisites	Other prerequisites			
1 semester undergraduate						
Conter	nts					
	t topics abroad.	in experimental physics	. Credited academic a	achievements, e.g. i	n case of change of university or	
Intend	ed lear	ning outcomes				
Technology on Bachelor's level. He/She commands knowledge in a current field in Quantum Technology or Nanosciences and insight into the measuring and evaluation methods which are necessary to acquire this knowledge. He/She is able to classify and to link the learnt. He/She knows about fields of application. Courses (type, number of weekly contact hours, language – if other than German)						
V (3) +	R (1)					
		eessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa ake the essmen date at	ation in groups (groups resentation/talk (approx amination was chosen as form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to nged and assessment may in- mination in groups. If the methoo weeks prior to the original exami-	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Approval from examination committee required.						
Workload						
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		



Summer Term 2023

Module title					Abbreviation
Current Topics in Quantum Technology 11-BXN5-212-mo1					
Module coordinator Module offered by					
Manag	ing Dir	ector of the Institute of A	pplied Physics	Faculty of Physics	and Astronomy
ECTS	Meth	od of grading	Only after succ. co	mpl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	5	
1 seme	ster	undergraduate			
Conten	ts				
Current study a			. Credited academic	achievements, e.g.	in case of change of university or
Intend	ed lear	ning outcomes			
and ev the lea Course	aluatio rnt. He s (type, r		cessary to acquire th of application.	is knowledge. He/S	ces and insight into the measuring he is able to classify and to link
V (2) +	R (2)				
		Sessment (type, scope, langua ole for bonus)	age — if other than German,	examination offered — if	not every semester, information on whether
b) oral c) oral d) repo e) pres lf a writ stead t of asse nation Langua	examir examir ort on p entatio tten exa ake the essmen date at age of a	e form of an oral examina t is changed, the lecture t he latest. Issessment: German and	each (approx. 30 min of 2, approx. 30 minu 3 to 10 pages) or ces) 5 method of assessm ttion of one candidat r must inform studen	utes per candidate) nent, this may be ch e each or an oral ex	or anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Allocat	ion of	places			
		ormation			
		examination committee	required.		
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progr	ammes)	
			,		

Module title					Abbreviation
Current	t Topic	s in Quantum Technology	/		11-BXN6-212-m01
Module coordinator Module offer					by
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physic	s and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Current study a		in experimental physics	. Credited academic	achievements, e.ş	g. in case of change of university or
Intende	ed lear	ning outcomes			
comma and eva the lea	inds kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/	nces and insight into the measuring She is able to classify and to link
V (3) +				initariy	
Metho	d of ass	sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered —	if not every semester, information on whether
b) oral c) oral d d) repo e) pres If a writ stead t of asse nation	examir examin rt on pr entatio tten exa ake the ssmen date at	e form of an oral examina	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate ent, this may be c e each or an oral e	e) or hanged and assessment may in- examination in groups. If the method our weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Approv	al from	examination committee	required.		
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
			s for teaching-degree progra	ammes)	

Module title Abbreviation					Abbreviation
Current	t Topic	s in Quantum Technology	/		11-BXN8-212-m01
Module coordinator				Module offered by	1
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Current study a		in experimental physics.	. Credited academic a	achievements, e.g. i	n case of change of university or
Intende	ed lear	ning outcomes			
and eva the lea Course V (4) + Method module is Written or oral 10 page	aluatio rnt. He, S (type, r R (2) d of ass s creditab exami examir es) or p	n methods which are nec /She knows about fields number of weekly contact hours, l sessment (type, scope, langua le for bonus) nation (approx. 90 to 120 nation in groups (groups of resentation/talk (approx	essary to acquire this of application. anguage — if other than Ger ge — if other than German, o minutes) or oral exa of 2, 30 minutes per o . 30 minutes).	s knowledge. He/Sh man) examination offered — if no mination of one can candidate) or report	es and insight into the measuring e is able to classify and to link ot every semester, information on whether indidate each (approx. 30 minutes) on practical course (approx. 8 to
stead t of asse nation	ake the ssmen date at	e form of an oral examina	tion of one candidate must inform student	e each or an oral exa	nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of J	olaces			
Additio	nal inf	ormation			
Approv	al from	examination committee	required.		
Worklo	ad				
240 h					
Teachi	ng cycl	е			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title	!			Abbreviation
Current Topics Physics				11-BXP5-152-m01
Module coordinator			Module offered by	/
chairperson	of examination committe	e	Faculty of Physics	and Astronomy
ECTS Met	hod of grading	Only after succ. con	npl. of module(s)	
5 num	erical grade			
Duration	Module level	Other prerequisites		
1 semester	undergraduate	Approval from exam	ination committee	required.
Contents				
	cs of Experimental and Th niversity or study abroad.		redited academic a	chievements, e.g. in case of
Intended lea	arning outcomes			
Theoretical subdisciplir	Physics of the Bachelor's	programme of Nanosti and the measuring and	ructure Technology d/or calculation me	s of a module of Experimental or . They have knowledge of a current thods necessary to acquire this e application areas.
Courses (type	, number of weekly contact hours	s, language — if other than Ger	rman)	
V (2) + R (2)				
Method of a module is credit		uage — if other than German, o	examination offered — if	not every semester, information on whether
or oral exam pages) or pr If a written e stead take t of assessme nation date	ination in groups (groups esentation/talk (approx. xamination was chosen a he form of an oral examin	s of 2, approx. 30 minu 30 minutes). as method of assessme ation of one candidate er must inform student	tes per candidate) ent, this may be ch e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Allocation o		<u></u>		
Additional i	nformation			
Workload				
150 h				
Teaching cy	cle			
Referred to	In LPO I (examination regulation	ons for teaching-degree progra	immes)	
		0 0 1 0		

Module title Ab					Abbreviation
Current Topics in Physics					11-BXP6-152-m01
Module	coord	inator		Module offered by	
chairpe	rson of	f examination committee	!	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	equired.
Content	ts				
	•	of Experimental and The /ersity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdisc	ical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ucture Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) + F	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachin	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Physics					11-BXP8-152-m01
Modul	e coord	inator		Module offered by	
chairp	erson o	f examination committee	2	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	required.
Conter	nts				
		of Experimental and The versity or study abroad.	eoretical Physics. Acc	redited academic ac	chievements, e.g. in case of
Intend	ed lear	ning outcomes			
Theore subdis knowle	tical Ph cipline edge. Th	ysics of the Bachelor's p of Physics and understa ney are able to classify th	programme of Nanosti nd the measuring and ne subject-specific co	ructure Technology. I/or calculation met ntexts and know the	of a module of Experimental or They have knowledge of a current hods necessary to acquire this application areas.
		number of weekly contact hours,	language — if other than Ger	man)	
V (4) +	R (2)				
		sessment (type, scope, langua le for bonus)	age — if other than German, o	examination offered — if n	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups sentation/talk (approx. 3 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). s method of assessme ation of one candidate r must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	ididate each (approx. 30 minutes) or project report (approx. 8 to 10 inged and assessment may in- amination in groups. If the methoc weeks prior to the original exami-
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
240 h					
Teachi	ng cycl	е			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Selected Topics in Quantum Technology					11-CSN6-212-m01
Module coordinator				Module offered by	
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts		• •		
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes	-		
comma and ev the lea	ands kn aluatio Irnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring le is able to classify and to link
V (3) +	_				
Metho	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Approv	/al from	examination committee	required.		
Worklo	bad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Select	ed Topi	cs in Energy and Materi	al Science		11-CSEM6-152-m01
Module coordinator				Module offered by	y
chairp	erson o	f examination committe	e	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	required.
Conter	nts				
Select	ed topic	s of energy and materia	lls research.		
Intend	ed lear	ning outcomes			
tion m know t	ethods he app	necessary to acquire the lication areas.	is knowledge. They are	e able to classify th	rstand the measuring and evalua- e subject-specific contexts and
	_	number of weekly contact hours	, language — if other than Ge	rman)	
V (3) +	R (1)				
		Sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examir or pres tten exa take the essmen date at	aation in groups (groups sentation/talk (approx. amination was chosen a form of an oral examin	of 2, approx. 30 minu 30 minutes). 15 method of assessm ation of one candidate er must inform student	ites per candidate) ent, this may be ch e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Allocat	tion of _l	olaces			
			_		
Additio	onal inf	ormation			
			_		
Worklo	oad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulatio	ns for teaching-degree progra	ammes)	

Module title					Abbreviation
Selecte	ed Topi	cs in Solid State Physics			11-CSF6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	Its				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
and ev	aluatio				nd understand the measuring classify the subject-specific con-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (3) +	R (1)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



Winter Term 2023

Module title Abbreviation					Abbreviation
Current Topics in Physics					11-BXP8-152-m01
Module	coord	inator		Module offered by	
chairpe	erson of	f examination committee	1	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	required.
Conten	ts				
	•	of Experimental and The versity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdise	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this application areas.
Courses	S (type, n	number of weekly contact hours,	language — if other than Ger	man)	
V (4) + I	R (2)				
		sessment (type, scope, langua le for bonus)	age — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups entation/talk (approx. 3) amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate r must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Physics					11-BXP6-152-m01
Module	coord	inator		Module offered by	1
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
	•	of Experimental and The versity or study abroad.	oretical Physics. Acc	redited academic ac	hievements, e.g. in case of
Intende	ed learı	ning outcomes			
Theore subdise	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead t of asse nation	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). o method of assessme tion of one candidate r must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ıg cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics Physics					11-BXP5-152-m01
Module coordinator				Module offered by	1
chairpe	erson o	f examination committee	2	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee	required.
Conten	Its				
		of Experimental and The versity or study abroad.	eoretical Physics. Acci	redited academic a	chievements, e.g. in case of
Intend	ed lear	ning outcomes			
Theore subdis	tical Ph cipline	ysics of the Bachelor's p	programme of Nanostr nd the measuring and	ucture Technology. I/or calculation me	of a module of Experimental or They have knowledge of a current thods necessary to acquire this e application areas.
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	man)	
V (2) +	R (2)				
		essment (type, scope, langua le for bonus)	age — if other than German, e	examination offered — if r	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups sentation/talk (approx. 3 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). s method of assessme tion of one candidate r must inform student	tes per candidate) ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation							
Current	t Topic	s in Quantum Technology	/		11-BXN5-212-m01		
Module	Module coordinator Module offered by						
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy		
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	undergraduate					
Conten	ts						
Current study a		in experimental physics	. Credited academic	achievements, e.g. i	n case of change of university or		
Intende	ed lear	ning outcomes					
comma and eva the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link		
V (2) +			anguage — n other than de	liliali)			
Metho	d of ass	Sessment (type, scope, langua	ge — if other than German,	examination offered — if n	ot every semester, information on whether		
b) oral c) oral d d) repo e) press lf a writ stead t of asse nation Langua	examir examin ort on p entatio tten exa ake the essmen date at age of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and	ach (approx. 30 minu of 2, approx. 30 minu 3 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	or Inged and assessment may in- Imination in groups. If the method Weeks prior to the original exami-		
Allocat	ion of _l	olaces					
		ormation					
		examination committee	required.				
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)			

Module title Abbreviation						
Current	t Topic	s in Quantum Technology	1		11-BXN6-212-m01	
Module coordinator Module offered by						
Managi	ing Dire	ector of the Institute of Ap	plied Physics	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites	i		
1 seme	ster	undergraduate				
Conten						
Current study a		in experimental physics.	. Credited academic	achievements, e.g.	in case of change of university or	
Intende	ed lear	ning outcomes				
comma and eva the lear	inds kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/S	ces and insight into the measuring he is able to classify and to link	
V (3) +						
Method	d of ass	s essment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if	not every semester, information on whether	
b) oral c c) oral c d) repo e) preso If a writ stead ta of asse nation Langua	examir examin rt on pr entatio ten exa ake the ssmen date at ge of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) method of assessm tion of one candidate must inform student	tes per candidate) ent, this may be ch e each or an oral ex	or anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-	
Allocat	ion of p	olaces				
		ormation				
		examination committee	required.			
Worklo	ad					
180 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	ammes)		

Module title					Abbreviation
Current Topics in Quantum Technology					11-BXN8-212-m01
Modul	e coord	inator		Module offered by	
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conter	Its				
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea Course V (4) + Metho	ands kn aluatio rnt. He, s (type, r R (2) d of ass	n methods which are nec /She knows about fields number of weekly contact hours, l	d in Quantum Techno eessary to acquire this of application. anguage – if other than Ger	s knowledge. He/Sh man)	es and insight into the measuring le is able to classify and to link ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups or presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	candidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	ion of p	olaces			
		ormation			
Approv	al from	examination committee	required.		
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					
Selected Topics in Quantum Technology 11-CSN6-212-mo1					11-CSN6-212-m01
Module coordinator				Module offered by	
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts		• •		
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes	-		
comma and ev the lea	ands kn aluatio Irnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring le is able to classify and to link
V (3) +	_				
Metho	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Approv	/al from	examination committee	required.		
Worklo	bad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					
Select	ed Topi	cs in Energy and Materi	al Science		11-CSEM6-152-m01
Module coordinator				Module offered by	ц. ,
chairp	erson o	f examination committe	e	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	required.
Conter	nts				
Selecte	ed topic	s of energy and materia	als research.		
Intend	ed lear	ning outcomes			
tion m know t	ethods he app	necessary to acquire the ication areas.	is knowledge. They are	e able to classify the	stand the measuring and evalua- e subject-specific contexts and
Course	es (type, r	umber of weekly contact hours	, language — if other than Ge	rman)	
V (3) +	R (1)				
		essment (type, scope, langule for bonus)	uage — if other than German,	examination offered — if n	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa take the essmen date at	ation in groups (groups entation/talk (approx. amination was chosen a form of an oral examin	s of 2, approx. 30 minu 30 minutes). Is method of assessme ation of one candidate er must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Worklo	oad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulatio	ns for teaching-degree progra	immes)	
			-		

Module title Abbreviation					Abbreviation
Selecte	ed Topi	cs in Solid State Physics			11-CSF6-152-m01
Module coordinator Modul				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	Its				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
and ev	aluatio				nd understand the measuring classify the subject-specific con-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (3) +	R (1)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



Summer Term 2024

Module title Abbrevia					Abbreviation
Current Topics in Physics					11-BXP8-152-m01
Module	e coord	inator		Module offered by	1
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
	•	of Experimental and The versity or study abroad.	oretical Physics. Acc	redited academic ac	hievements, e.g. in case of
Intend	ed learı	ning outcomes			
Theore subdis	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead t of asse nation	examin or pres tten exa ake the ssmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). o method of assessme tion of one candidate r must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					
Current Topics in Physics					11-BXP6-152-m01
Module coordinator				Module offered by	
chairpe	rson of	f examination committee	!	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee r	equired.
Content	ts				
	•	of Experimental and The /ersity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of
Intende	ed learr	ning outcomes			
Theoret subdisc	ical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ucture Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) + F	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachin	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title	!			Abbreviation
Current Top	ics Physics			11-BXP5-152-m01
Module coordinator			Module offered by	/
chairperson	of examination committe	e	Faculty of Physics	and Astronomy
ECTS Met	hod of grading	Only after succ. con	npl. of module(s)	
5 num	erical grade			
Duration	Module level	Other prerequisites		
1 semester	undergraduate	Approval from exam	ination committee	required.
Contents				
	cs of Experimental and Th niversity or study abroad.		redited academic a	chievements, e.g. in case of
Intended lea	arning outcomes			
Theoretical subdisciplir	Physics of the Bachelor's	programme of Nanosti and the measuring and	ructure Technology d/or calculation me	s of a module of Experimental or . They have knowledge of a current thods necessary to acquire this e application areas.
Courses (type	, number of weekly contact hours	s, language — if other than Ger	rman)	
V (2) + R (2)				
Method of a module is credit		uage — if other than German, o	examination offered — if	not every semester, information on whether
or oral exam pages) or pr If a written e stead take t of assessme nation date	ination in groups (groups esentation/talk (approx. xamination was chosen a he form of an oral examin	s of 2, approx. 30 minu 30 minutes). as method of assessme ation of one candidate er must inform student	tes per candidate) ent, this may be ch e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Allocation o		<u></u>		
Additional i	nformation			
Workload				
150 h				
Teaching cy	cle			
Referred to	In LPO I (examination regulation	ons for teaching-degree progra	immes)	
		0 0 1 0		

Module title Abbreviation										
Current	t Topic	s in Quantum Technology	1		11-BXN5-212-m01					
Module coordinator Module offered by										
Managi	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physic	cs and Astronomy					
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)						
5	nume	rical grade								
Duratio	n	Module level	Other prerequisites	i						
1 seme	ster	undergraduate								
Conten	ts									
Current study a		in experimental physics	. Credited academic	achievements, e.s	g. in case of change of university or					
Intende	ed lear	ning outcomes								
comma and eva the lear	nds kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/	nces and insight into the measuring She is able to classify and to link					
V (2) +										
Method	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered —	if not every semester, information on whether					
b) oral c) oral c d) repo e) preso If a writ stead ta of asse nation Langua	examir examin rt on pr entatio ten exa ake the ssmen date at ge of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate ent, this may be c e each or an oral o	e) or changed and assessment may in- examination in groups. If the method our weeks prior to the original exami-					
Allocat	ion of p	olaces								
Additio	nal inf	ormation								
		examination committee	required.							
Worklo	ad									
150 h										
Teachi	ng cycl	e								
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	ammes)	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title Abbreviation							
Current	t Topic	s in Quantum Technology	/		11-BXN6-212-m01		
Module	Module coordinator Module offered by						
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
6	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	undergraduate					
Conten	ts						
Current study a		in experimental physics	. Credited academic	achievements, e.g. i	n case of change of university or		
Intende	ed lear	ning outcomes					
comma and eva the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/Sh	es and insight into the measuring he is able to classify and to link		
		number of weekly contact hours, i	anguage — If other than Ge	rman)			
V (3) +		accmont (· · · · · · · · · · · · · · · · · · ·	a har an ann an tar ta fa ma dtar ann a hada an		
		le for bonus)	ge — If other than German,	examination offered — If n	ot every semester, information on whether		
b) oral c) oral d d) repo e) press lf a writ stead t of asse nation Langua	examir examin ort on p entatio tten exa ake the essmen date at age of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessm tion of one candidate 7 must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	or anged and assessment may in- amination in groups. If the method weeks prior to the original exami-		
Allocat	ion of _l	olaces					
		ormation					
		examination committee	required.				
Worklo	ad						
180 h							
Teachi	ng cycl	e					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ummes)			

Module title Abbreviation					
Curren	t Topics	s in Quantum Technolog	/		11-BXN8-212-m01
Module coordinator				Module offered by	
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts				
	t topics abroad.	in experimental physics	. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring le is able to classify and to link
V (4) +	R (2)				
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa ake the essmen date at	ation in groups (groups resentation/talk (approx amination was chosen as form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to anged and assessment may in- amination in groups. If the methoc weeks prior to the original exami-
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Approv	al from	examination committee	required.		
Worklo	bad				
240 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation						
Selected Topics in Quantum Technology					11-CSN6-212-m01	
Module coordinator				Module offered by		
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites	equisites		
1 seme	ester	undergraduate				
Conter	nts					
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or	
Intend	ed lear	ning outcomes				
comma and ev the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link	
V (3) +	R (1)					
		Sessment (type, scope, langua ile for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa ake the essmen date at	ation in groups (groups presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Approv	al from	examination committee	required.			
Workload						
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
		-	•			

Module title Abbreviation					
Selected Topics in Energy and Material Science					11-CSEM6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committe	e	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee i	required.
Conter	nts				
Selecte	ed topic	s of energy and materia	als research.		
Intend	ed lear	ning outcomes			
tion mo know t	ethods he app	necessary to acquire th lication areas.	is knowledge. They are	e able to classify the	stand the measuring and evalua- subject-specific contexts and
	_	number of weekly contact hours	, language — if other than Ge	rman)	
V (3) +	R (1)				
		Sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if n	ot every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English					
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	immes)	

Module title Abbreviation					
Selected Topics in Solid State Physics					11-CSF6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
and ev	aluatio				nd understand the measuring classify the subject-specific con-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (3) +	R (1)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English					
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	immes)	



Winter Term 2024

Module title					Abbreviation	
Current Topics in Physics					11-BXP8-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee	2	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
8	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	undergraduate	Approval from exam	ination committee r	required.	
Conten	nts					
		of Experimental and The versity or study abroad.	eoretical Physics. Acc	redited academic ac	chievements, e.g. in case of	
Intend	ed lear	ning outcomes				
Theore subdis knowle	tical Ph cipline edge. Th	ysics of the Bachelor's p of Physics and understa ney are able to classify th	programme of Nanostr nd the measuring and ne subject-specific co	ucture Technology. I/or calculation met ntexts and know the	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.	
		number of weekly contact hours,	language — if other than Ger	man)		
V (4) +	R (2)					
		essment (type, scope, langua le for bonus)	age — if other than German, e	examination offered — if n	ot every semester, information on whether	
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups sentation/talk (approx. 3 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). s method of assessme tion of one candidate r must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	ididate each (approx. 30 minutes) or project report (approx. 8 to 10 inged and assessment may in- amination in groups. If the method weeks prior to the original exami-	
	tion of p		<u>.</u>			
Additio	onal inf	ormation				
Worklo	ad					
240 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)		

Module title Abbreviation					Abbreviation
Current Topics in Physics					11-BXP6-152-m01
Module	coord	inator		Module offered by	1
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
	•	of Experimental and The versity or study abroad.	oretical Physics. Acc	redited academic ac	hievements, e.g. in case of
Intende	ed learı	ning outcomes			
Theore subdise	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English					
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachi	ıg cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title			Abbreviation		
Current Topic	s Physics			11-BXP5-152-m01	
Module coordinator			Module offered by	1	
chairperson o	f examination committee	9	Faculty of Physics	and Astronomy	
ECTS Meth	od of grading	Only after succ. com	npl. of module(s)		
5 nume	rical grade				
Duration	Module level	Other prerequisites			
1 semester	undergraduate	Approval from exam	ination committee	required.	
Contents					
	s of Experimental and The versity or study abroad.	eoretical Physics. Acci	redited academic a	chievements, e.g. in case of	
Intended lear	ning outcomes				
Theoretical Pl subdiscipline	nysics of the Bachelor's p	programme of Nanostr nd the measuring and	ructure Technology I/or calculation me	of a module of Experimental or They have knowledge of a current thods necessary to acquire this e application areas.	
Courses (type,	number of weekly contact hours,	language — if other than Ger	man)		
V (2) + R (2)					
Method of as module is credital		age — if other than German, e	examination offered — if r	not every semester, information on whether	
or oral examin pages) or pres If a written ex stead take the of assessmen nation date a	nation in groups (groups sentation/talk (approx. 3 amination was chosen a e form of an oral examina it is changed, the lecture	of 2, approx. 30 minu o minutes). s method of assessme ation of one candidate r must inform student	tes per candidate) ent, this may be cha e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-	
Allocation of		<u>,</u>			
Additional inf	ormation				
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Referred to in	LPOI (examination regulation	ns for teaching-degree progra	mmes)		

Module title Abbreviation						
Current	Current Topics in Quantum Technology 11-BXN5-212-mo1					
Module	Module coordinator Module offered by					
Managi	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	prerequisites		
1 seme	ster	undergraduate				
Conten	ts					
Current study a		in experimental physics	. Credited academic a	achievements, e.g. i	n case of change of university or	
Intende	ed learı	ning outcomes				
comma and eva the lear	nds kn aluation rnt. He	n methods which are nec /She knows about fields	d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link	
		umber of weekly contact hours, l	anguage — if other than Gei	rman)		
V (2) +						
		s essment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
 a) Written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) report on practical course (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 						
Allocat	ion of p	olaces				
Additional information						
		examination committee	required.			
Worklo	ad					
150 h						
Teachi	ng cycl	9				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title Abbreviation						
Curren	Current Topics in Quantum Technology 11-BXN6-212-mo1					
Module	Module coordinator Module offered by					
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy	
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ester	undergraduate				
Conten	nts					
Current study a		in experimental physics	. Credited academic	achievements, e.g.	in case of change of university or	
Intend	ed lear	ning outcomes				
comma and ev the lea	ands kn aluatio rnt. He,		d in Quantum Techno essary to acquire thi of application.	s knowledge. He/S	ces and insight into the measuring the is able to classify and to link	
V (3) +	_					
Metho	d of ass	sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if	not every semester, information on whether	
a) Written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) report on practical course (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may in- stead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exami- nation date at the latest. Language of assessment: German and/or English						
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Approval from examination committee required.						
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)		

Modul	Abbreviation				
Current Topics in Quantum Technology					11-BXN8-212-m01
Modul	e coord	inator		Module offered by	
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conter	Its				
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea Course V (4) + Metho	ands kn aluatio rnt. He, s (type, r R (2) d of ass	n methods which are nec /She knows about fields number of weekly contact hours, l	d in Quantum Techno essary to acquire this of application. anguage – if other than Ger	s knowledge. He/Sh man)	es and insight into the measuring le is able to classify and to link ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups or presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	candidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	ion of p	olaces			
		ormation			
Approv	al from	examination committee	required.		
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					
Selected Topics in Energy and Material Science 11-					11-CSEM6-152-m01
Module coordinator				Module offered b	y
chairp	erson o	f examination commit	tee	Faculty of Physics	and Astronomy
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	required.
Conter	nts				
Selecte	ed topio	s of energy and mate	rials research.		
Intend	ed lear	ning outcomes			
tion m	ethods				rstand the measuring and evalua- e subject-specific contexts and
Course	S (type, r	number of weekly contact hou	ırs, language — if other than Ge	rman)	
V (3) +	R (1)				
		sessment (type, scope, lar le for bonus)	nguage — if other than German,	examination offered — if	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examir or pres tten exa cake the essmen date at	nation in groups (group sentation/talk (approx amination was choser e form of an oral exam	ps of 2, approx. 30 minu x. 30 minutes). a as method of assessmi ination of one candidate irer must inform student	ites per candidate) ent, this may be ch e each or an oral ex	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- camination in groups. If the method ir weeks prior to the original exami
Allocat	tion of _l	olaces			
	-				
Additio	onal inf	ormation			
Worklo	bad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regula	tions for teaching-degree progra	ummes)	

Module title Abbreviation					
Selected Topics in Solid State Physics					11-CSF6-152-m01
Module coordinator Mo				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	Its				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
and ev	aluatio				nd understand the measuring classify the subject-specific con-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (3) +	R (1)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa ake the essmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					
Selected Topics in Quantum Technology					11-CSN6-212-m01
Modul	e coord	inator		Module offered by	
Manag	ing Dire	ector of the Institute of A	oplied Physics	Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts		• •		
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes	-		
comma and ev the lea	ands kn aluatio Irnt. He,		d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring le is able to classify and to link
V (3) +	_				
Metho	d of ass	Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	andidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Approv	/al from	examination committee	required.		
Worklo	bad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	



Summer Term 2025

(ECTS credits)

Module title Abbreviation					
Current Topics in Physics					11-BXP8-152-m01
Module	e coord	inator		Module offered by	1
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
	•	of Experimental and The versity or study abroad.	oretical Physics. Acc	redited academic ac	hievements, e.g. in case of
Intend	ed learı	ning outcomes			
Theore subdis	tical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ructure Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead t of asse nation	examin or pres tten exa ake the ssmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). o method of assessme tion of one candidate r must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation						
Current Topics in Physics 11-B					11-BXP6-152-m01	
Module	coord	inator		Module offered by		
chairpe	rson of	f examination committee	!	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	undergraduate	Approval from exam	ination committee r	equired.	
Content	ts					
	•	of Experimental and The /ersity or study abroad.	eoretical Physics. Acci	redited academic ac	hievements, e.g. in case of	
Intende	ed learr	ning outcomes				
Theoret subdisc	ical Ph cipline	ysics of the Bachelor's p	rogramme of Nanostr nd the measuring and	ucture Technology. I/or calculation met	of a module of Experimental or They have knowledge of a current hods necessary to acquire this e application areas.	
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) + F	R (1)					
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
or oral e pages) If a writ stead ta of asses nation o	examin or pres ten exa ake the ssmen date at	ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina	of 2, approx. 30 minu o minutes). 5 method of assessme tion of one candidate 7 must inform student	tes per candidate) c ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	Workload					
180 h	180 h					
Teachin	ng cycl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title					Abbreviation
Current Topics Physics					11-BXP5-152-m01
Modul	e coord	inator		Module offered b	y
chairp	erson o	f examination committe	e	Faculty of Physics	s and Astronomy
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Approval from exam	ination committee	e required.
Conter	nts				
		of Experimental and Th versity or study abroad.	eoretical Physics. Acc	redited academic a	achievements, e.g. in case of
Intend	ed lear	ning outcomes			
Theore subdis knowle	etical Ph scipline edge. Th	ysics of the Bachelor's p of Physics and understa ney are able to classify t	programme of Nanosti and the measuring and he subject-specific co	ructure Technology I/or calculation m ntexts and know th	s of a module of Experimental or y. They have knowledge of a current ethods necessary to acquire this ne application areas.
	_	number of weekly contact hours,	language — if other than Ger	rman)	
V (2) +	R (2)				
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if	not every semester, information on whether
or oral pages) If a wri stead t of asse nation	examir or pres tten exa take the essmen date at	aation in groups (groups sentation/talk (approx. g amination was chosen a e form of an oral examina	of 2, approx. 30 minu 30 minutes). 5 method of assessme ation of one candidate r must inform student	tes per candidate) ent, this may be ch e each or an oral ea	andidate each (approx. 30 minutes) or project report (approx. 8 to 10 nanged and assessment may in- kamination in groups. If the methoc ur weeks prior to the original exami-
	tion of		<u>, et 2</u>		
Additio	onal inf	ormation			
Worklo	bad		_		
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)	

Module title Abbreviation						
Curren	Current Topics in Quantum Technology 11-BXN5-212-mo1					
Module coordinator Module offered by						
Manag	ing Dir	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy	
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ster	undergraduate				
Conten	ts					
Current study a			. Credited academic	achievements, e.g.	in case of change of university or	
Intend	ed lear	ning outcomes				
and ev the lea	aluatio rnt. He		essary to acquire thi of application.	s knowledge. He/Sl	es and insight into the measuring he is able to classify and to link	
V (2) +	R (2)					
		s essment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if r	not every semester, information on whether	
b) oral c) oral d) repo e) pres lf a writ stead t of asse nation Langua	examir examir ort on p entatio tten exa ake the essmen date at age of a	e form of an oral examina t is changed, the lecturer the latest. ssessment: German and	ach (approx. 30 minu of 2, approx. 30 minu 8 to 10 pages) or es) 5 method of assessm tion of one candidate r must inform student	tes per candidate) ent, this may be cha e each or an oral ex	or anged and assessment may in- amination in groups. If the method r weeks prior to the original exami	
Allocat	ion of	places				
		ormation				
		examination committee	required.			
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)		

Module title Abbreviation							
Current	Current Topics in Quantum Technology 11-BXN6-212-mo1						
Module	Module coordinator Module offered by						
Managi	ng Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics a	and Astronomy		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
6	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	undergraduate					
Conten	ts						
Current study a		in experimental physics	. Credited academic a	achievements, e.g. i	n case of change of university or		
Intende	ed lear	ning outcomes					
comma and eva the lear	nds kn aluatio rnt. He,	n methods which are nec /She knows about fields	d in Quantum Techno essary to acquire this of application.	s knowledge. He/Sh	es and insight into the measuring e is able to classify and to link		
		umber of weekly contact hours, l	anguage — if other than Ger	rman)			
V (3) +							
		s essment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether		
b) oral e c) oral e d) repo e) preso lf a writ stead ta of asse nation Langua	 a) Written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) report on practical course (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 						
Allocat	ion of p	olaces					
		ormation					
		examination committee	required.				
Worklo	ad						
180 h							
Teachir	ıg cycl	9					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	immes)			

Modul	Abbreviation				
Current Topics in Quantum Technology					11-BXN8-212-m01
Modul	e coord	inator		Module offered by	
Manag	ing Dire	ector of the Institute of Ap	oplied Physics	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
8	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conter	Its				
	t topics abroad.		. Credited academic a	achievements, e.g. i	n case of change of university or
Intend	ed lear	ning outcomes			
comma and ev the lea Course V (4) + Metho	ands kn aluatio rnt. He, s (type, r R (2) d of ass	n methods which are nec /She knows about fields number of weekly contact hours, l	d in Quantum Techno eessary to acquire this of application. anguage – if other than Ger	s knowledge. He/Sh man)	es and insight into the measuring le is able to classify and to link ot every semester, information on whether
or oral 10 pag If a wri stead t of asse nation	examin es) or p tten exa take the essmen date at	nation in groups (groups or presentation/talk (approx amination was chosen as e form of an oral examina	of 2, 30 minutes per 6 . 30 minutes). 5 method of assessme tion of one candidate 7 must inform student	candidate) or report ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes on practical course (approx. 8 to anged and assessment may in- amination in groups. If the method weeks prior to the original exami
Allocat	ion of p	olaces			
		ormation			
Approv	al from	examination committee	required.		
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Selected Topics in Energy and Material Science					11-CSEM6-152-m01
Modul	e coord	inator		Module offered by	,
chairp	erson o	f examination committe	e	Faculty of Physics	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Durati	on	Module level	Other prerequisites	i	
1 seme	ester	undergraduate	Approval from exam	nination committee	required.
Conter	nts				
Select	ed topic	s of energy and materia	als research.		
Intend	ed lear	ning outcomes			
tion m	ethods				stand the measuring and evalua- e subject-specific contexts and
Course	es (type, r	number of weekly contact hours	, language — if other than Ge	rman)	
V (3) +	R (1)				
		sessment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if n	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa take the essmen date at	ation in groups (groups entation/talk (approx. amination was chosen a form of an oral examin	s of 2, approx. 30 minu 30 minutes). as method of assessm ation of one candidate er must inform student	ites per candidate) (ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may in- amination in groups. If the method r weeks prior to the original exami-
Alloca	tion of p	olaces			
Additi	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)	

Module title Abbreviation					
Selected Topics in Solid State Physics					11-CSF6-152-m01
Module coordinator Mo				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	Its				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
and ev	aluatio				nd understand the measuring classify the subject-specific con-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (3) +	R (1)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
or oral pages) If a wri stead t of asse nation	examin or pres tten exa take the essmen date at	ation in groups (groups of centation/talk (approx. 3) amination was chosen as a form of an oral examina	of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student	tes per candidate) o ent, this may be cha e each or an oral exa	didate each (approx. 30 minutes) or project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Selected Topics in Quantum Technology					11-CSN6-212-m01
Module coordinator				Module offered by	
Managing Director of the Institute of Ap			oplied Physics	Faculty of Physics and Astronomy	
ECTS	Metho	od of grading	Only after succ. compl. of module(s)		
6	numerical grade				
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Conter	nts				
Current topics in experimental physics. Credited academic achievements, e.g. in case of change of university or study abroad.					
Intended learning outcomes					
Technology on Bachelor's level. He/She commands knowledge in a current field in Quantum Technology or Nanosciences and insight into the measuring and evaluation methods which are necessary to acquire this knowledge. He/She is able to classify and to link the learnt. He/She knows about fields of application. Courses (type, number of weekly contact hours, language – if other than German)					
V(3) + R(1)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
Written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, 30 minutes per candidate) or report on practical course (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English					
Allocation of places					
Additional information					
Approval from examination committee required.					
Workload					
180 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					