

Subdivided 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



Abbreviations used

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

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

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

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

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

Conventions

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

Notes

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

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

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

In accordance with

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

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)

o6-May-2020 (2020-39)

22-Jul-2020 (2020-57)

17-Dec-2020 (2020-110)

10-Mar-2021 (2021-17)



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o9-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.



The subject is divided into

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rrent Topics Physics		NUM		
	5		10	
rrent Topics in Quantum Technology		NUM	9	
	5	NUM	6	
11-BXN6-212-mo1 Current Topics in Quantum Technology				
11-BXN8-212-mo1 Current Topics in Quantum Technology				
CSEM6-152-mo1 Selected Topics in Energy and Material Science				
152-mo1 Selected Topics in Solid State Physics			13	
elected Topics in Quantum Technology	6	NUM	14	
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rrent Topics in Physics	8	NUM	11	
rrent Topics in Physics	6	NUM	10	
rrent Topics Physics	5	NUM	9	
rrent Topics in Quantum Technology	5	NUM	6	
2 2		NUM	7	
rrent Topics in Quantum Technology	8	NUM	8	
elected Topics in Energy and Material Science	6	NUM	12	
elected Topics in Solid State Physics	6	NUM	13	
elected Topics in Quantum Technology	6	NUM	14	
rrent Topics in Quantum Technology	5	NUM	6	
rrent Topics in Quantum Technology	6	NUM	7	
rrent Topics in Quantum Technology	8	NUM	8	
rrent Topics Physics	5	NUM	9	
rrent Topics in Physics	6	NUM	10	
rrent Topics in Physics	8	NUM	11	
elected Topics in Quantum Technology	6	NUM	14	
elected Topics in Energy and Material Science	6	NUM	12	
elected Topics in Solid State Physics	6	NUM	13	
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11-BXP6-152-m01	6	NUM	10		
11-BXP5-152-m01	-BXP5-152-mo1 Current Topics Physics				
11-BXN5-212-m01	Current Topics in Quantum Technology	5	NUM	6	
11-BXN6-212-m01	Current Topics in Quantum Technology	6	NUM	7	
11-BXN8-212-m01	Current Topics in Quantum Technology	8	NUM	8	
11-CSN6-212-m01	Selected Topics in Quantum Technology	6	NUM	14	
11-CSEM6-152-m01	Selected Topics in Energy and Material Science	6	NUM	12	
11-CSF6-152-m01	Selected Topics in Solid State Physics	6	NUM	13	
Summer Term 2024	•				
11-BXP8-152-m01	Current Topics in Physics	8	NUM	11	
11-BXP6-152-m01	Current Topics in Physics	6	NUM	10	
11-BXP5-152-m01	Current Topics Physics	5	NUM	9	
11-BXN5-212-m01	Current Topics in Quantum Technology	5	NUM	6	
11-BXN6-212-m01	Current Topics in Quantum Technology	6	NUM	7	
11-BXN8-212-m01	Current Topics in Quantum Technology	8	NUM	8	
11-CSN6-212-m01	11-CSN6-212-mo1 Selected Topics in Quantum Technology			14	
11-CSEM6-152-m01	Selected Topics in Energy and Material Science	6	NUM	12	
11-CSF6-152-m01	Selected Topics in Solid State Physics	6	NUM	13	
Winter Term 2024		•			
11-BXP8-152-m01	Current Topics in Physics	8	NUM	11	
11-BXP6-152-m01	Current Topics in Physics	6	NUM	10	
11-BXP5-152-m01	Current Topics Physics	5	NUM	9	
11-BXN5-212-m01	Current Topics in Quantum Technology	5	NUM	6	
11-BXN6-212-m01	Current Topics in Quantum Technology	6	NUM	7	
11-BXN8-212-m01	Current Topics in Quantum Technology	8	NUM	8	
11-CSEM6-152-m01	Selected Topics in Energy and Material Science	6	NUM	12	
11-CSF6-152-m01	Selected Topics in Solid State Physics	6	NUM	13	
11-CSN6-212-m01	Selected Topics in Quantum Technology	6	NUM	14	
Summer Term 2025	•	•	•	•	
11-BXP8-152-m01	Current Topics in Physics	8	NUM	11	
11-BXP6-152-m01	Current Topics in Physics	6	NUM	10	
11-BXP5-152-m01	Current Topics Physics	5	NUM	9	
11-BXN5-212-m01	Current Topics in Quantum Technology	5	NUM	6	
11-BXN6-212-m01	Current Topics in Quantum Technology	6	NUM	7	
11-BXN8-212-m01	Current Topics in Quantum Technology	8	NUM	8	
11-CSEM6-152-m01	Selected Topics in Energy and Material Science	6	NUM	12	
11-CSF6-152-m01	Selected Topics in Solid State Physics	6	NUM	13	
11-CSN6-212-m01	Selected Topics in Quantum Technology	6	NUM	14	



Module title					Abbreviation
Current Topics in Quantum Technology					11-BXN5-212-m01
Module coordinator Module offered				Module offered by	
Managing Director of the Institute of Applied Physics			pplied Physics	Faculty of Physics and Astronomy	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Contents					
Current topics in experimental physics. Credited academic achievements, e.g. in case of change of university or study abroad.					

Intended learning outcomes

The student posseses advanced knowledge meeting the requirements of a module in Nanosciences or Quantum 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(2) + R(2)

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

- 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

Allocation of places

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Additional information

Approval from examination committee required.

Workload

150 h

Teaching cycle

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



Module title					Abbreviation
Current Topics in Quantum Technology					11-BXN6-212-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. o	ompl. of module(s)	
6	nume	rical grade			
Duratio	Duration Module level Of		Other prerequisit	Other prerequisites	
1 semester undergraduate					
Contents					

Current topics in experimental physics. Credited academic achievements, e.g. in case of change of university or study abroad.

Intended learning outcomes

The student posseses advanced knowledge meeting the requirements of a module in Nanosciences or Quantum 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 can be chosen to earn a bonus)

- 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

Allocation of places

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Additional information

Approval from examination committee required.

Workload

180 h

Teaching cycle

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



Module title					Abbreviation	
Current Topics in Quantum Technology					11-BXN8-212-m01	
Module coordinator Module offered				Module offered by		
Managing Director of the Institute of Applied Physics			oplied Physics	Faculty of Physics a	Faculty of Physics and Astronomy	
ECTS	Metho	od of grading	Only after succ. co	mpl. of module(s)		
8	nume	rical grade				
Duratio	on	Module level	Other prerequisite	·S		
1 seme	ster	undergraduate				
Contents						
	Current topics in experimental physics. Credited academic achievements, e.g. in case of change of university or study abroad.					

Intended learning outcomes

The student posseses advanced knowledge meeting the requirements of a module in Nanosciences or Quantum 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)

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

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

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Additional information

Approval from examination committee required.

Workload

240 h

Teaching cycle

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



Modul	Module title Abbreviation					
	Current Topics Physics				11-BXP5-152-m01	
Madul	Module coordinator					
				Module offered by		
ECTS		f examination committee	i	Faculty of Physics a	and Astronomy	
5		od of grading rical grade	Only after succ. con	npt. of modute(s)		
Duration		Module level	Other prerequisites	:		
1 seme		undergraduate		ination committee r	eauired.	
Conte	_	<u> </u>	1 1 1 1 1 1 1 1		- 1	
Curren	t topics	of Experimental and The versity or study abroad.	eoretical Physics. Acc	redited academic ac	hievements, e.g. in case of	
Intend	ed lear	ning outcomes				
Theore subdis	The students have advanced competencies corresponding to the requirements of a module of Experimental or Theoretical Physics of the Bachelor's programme of Nanostructure Technology. They have knowledge of a current subdiscipline of Physics and understand the measuring and/or calculation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
V (2) +	R (2)		-			
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
or oral pages) If a wri stead to of asse nation	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	Allocation of places					
Additional information						
Workload						
150 h						
Teachi	Teaching cycle					
Referr	Referred to in LPO I (examination regulations for teaching-degree programmes)					
	25.50					



Modul	le title			Abbreviation			
Currer	nt Topic	s in Physics			11-BXP6-152-m01		
Modul	le coord	linator		Module offered by	Į.		
chairp	erson o	f examination committe	2	Faculty of Physics a	and Astronomy		
ECTS	Meth	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 r	equired.		
Conte	nts						
		s of Experimental and Th versity or study abroad.	eoretical Physics. Acc	redited academic ac	hievements, e.g. in case of		
Intend	led lear	ning outcomes					
subdis knowl	scipline edge. T	of Physics and understa ney are able to classify t	nd the measuring and ne subject-specific co	d/or calculation met ntexts and know the			
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	an)		
V (3) +	R (1)						
		sessment (type, scope, l ion on whether module o			ation offered — if not every seme-		
or oral pages If a wr stead of ass nation	l examin) or presitten ex take the essmen I date a	nation in groups (groups sentation/talk (approx. g amination was chosen a e form of an oral examina	of 2, approx. 30 minutes). s method of assessmation 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 intended in groups. If the method weeks prior to the original exami-		
Allocation of places							
							
Additional information							
Workload							
180 h							
	ing cycl	e					
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Referred to in LPO I (examination regulations for teaching-degree programmes)



Module				Abbreviation		
Curren	t Topic	s in Physics			11-BXP8-152-m01	
Module	Module coordinator			Module offered by		
chairpe	chairperson of examination committee			Faculty of Physics a	and Astronomy	
ECTS		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	Approval from exam	ination committee r	equired.	
Conten	ts					
1	•	of Experimental and The versity or study abroad.	eoretical Physics. Acc	redited academic ac	hievements, e.g. in case of	
Intend	ed lear	ning outcomes				
Theore subdis	The students have advanced competencies corresponding to the requirements of a module of Experimental or Theoretical Physics of the Bachelor's programme of Nanostructure Technology. They have knowledge of a current subdiscipline of Physics and understand the measuring and/or calculation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
V (4) +	R (2)					
		sessment (type, scope, la on on whether module c	-		ation offered — if not every seme-	
or oral pages) If a writestead to of asset nation	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	Allocation of places					
Additio	Additional information					
Worklo	Workload					
240 h						
	Teaching cycle					
Cacill	s cycl					
	·					

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



Modul	Module title Abbreviation					
Select	Selected Topics in Energy and Material Science				11-CSEM6-152-m01	
Modul	Module coordinator			Module offered by		
chairperson of examination committee			Faculty of Physics a	and Astronomy		
ECTS		od of grading	Only after succ. con		,	
6	nume	rical grade				
Durati	on	Module level	Other prerequisites			
1 seme	ester	undergraduate	Approval from exam	ination committee r	equired.	
Conte	Contents					
Select	Selected topics of energy and materials research.					
Intend	led lear	ning outcomes				
tion m	The students have basic knowledge of energy and material research and understand the measuring and evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)	
V (3) + R (1)						
		sessment (type, scope, la			tion offered — if not every seme-	
or oral pages) If a wri stead of asso nation	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	places				
						
Additional information						
Workload						
180 h						
Teachi	Teaching cycle					
Referr	Referred to in LPO I (examination regulations for teaching-degree programmes)					
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						



Modul	Module title Abbreviation					
Selecte	ed Topi	cs in Solid State Physics		11-CSF6-152-m01		
Module	Module coordinator			Module offered by		
chairperson of examination committee			Faculty of Physics a	and Astronomy		
ECTS		od of grading	Only after succ. com		and ristronomy	
6		rical grade		1 ,,		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	nination committee required.		
Conten	Contents					
Selected topics of Solid-State Physics.						
Intend	ed learı	ning outcomes				
and ev	The students have basic knowledge of a specialist field of Solid-State Physics and understand the measuring and evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	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 can be chosen to earn a bonus)						
or oral pages) If a wri stead t of asse nation	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				
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)		
	(



Modul	e title		Abbreviation			
Select	ed Topi	cs in Quantum Technolo		11-CSN6-212-m01		
Module coordinator				Module offered by	Module offered by	
Managing Director of the Institute of Applied Physics			pplied Physics	Faculty of Physics	Faculty of Physics and Astronomy	
ECTS	Meth	od of grading	Only after succ. compl. of module(s)			
6	nume	rical grade				
Duratio	on	Module level	Other prerequisi	tes		
1 seme	ster	undergraduate				
Contents						
Current topics in experimental physics. Credited academic achievements, e.g. in case of change of university or study abroad.						

Intended learning outcomes

The student posseses advanced knowledge meeting the requirements of a module in Nanosciences or Quantum 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 can be chosen to earn a 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

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Additional information

Approval from examination committee required.

Workload

180 h

Teaching cycle

--

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