

# Official notifications

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**Second regulation amending the examination  
regulations for the study programme Nanoscience  
and Nanotechnology leading to the degree Master of  
Science**

**of the  
University of Siegen**

Dated 12 July 2021

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Nanoscience and Nanotechnology leading to the  
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Based on § 2, paragraph 4 and § 64, paragraph 1 of the Act on the Universities of the State of North Rhine-Westphalia (Higher Education Act – HG) of 16 September 2014 (GV. NRW. p. 547), last amended by law dated 25 March 20121 (GV. NRW. p. 331), the University of Siegen has issued the following amendment regulations:

## Article 1

The examination regulations for the study programme Nanoscience and Nanotechnology leading to the degree Master of Science at the University of Siegen dated 19 April 2017 (Official Notification 32/2017), which were amended by the regulations amending the examination regulations for the study programme Nanoscience and Nanotechnology leading to the degree Master of Science at the University of Siegen dated 8 May 2018 (Official Notification 26/2018), are amended as follows:

1. § 6 is amended as follows:

a) The module overview in paragraph 4 is amended to read as follows:

Module No.	Module title	SL <sup>1</sup>	PL <sup>2</sup>	Rec. Subject semester	SWS	LP	Conditions
1	Solid-state physics		1	1	6	9	-
2	Advanced solid-state physics		1	1	4	6	-
3	Quantum theory		1	1	4	6	-
4	General chemistry for physicists (incl. Lab course)		1	1	10	9	-
5	General chemistry for engineers (incl. Lab course)		1	1	8	6	-
6	Nanotechnology		1	1	4	6	-
7	Nano-research course	1	1	1	6	9	-
8	Nanochemistry		1	2	4	6	-
9	Photonic devices		1	2	4	6	-
10	Physics of nanoelectronic devices		1	2	4	6	-
11	Lab-course Micro and Nanotechnology	1	1	2	4	6	-
12	Lab-course Nanosynthesis, Nanosafety and Nanoanalytics	1	1	2	4	6	-
13	Compulsory elective subject I	(1) <sup>3</sup>	1	3	4	6	-
14	Compulsory elective subject II	(1) <sup>3</sup>	1	3	4	6	-
15	Compulsory elective subject	(1) <sup>3</sup>	1	3	4	6	-
16	Research Lab-course	1	1	3	8	12	Passed modules from previous semesters
17	Master thesis			4		30	Passed modules from previous semesters

b) Paragraph 5 shall be worded as follows:

"(5) Students who have obtained admission based on a completed bachelor's degree in chemistry or a comparable study programme must take modules 1 (Solid-state physics), 3 (Quantum theory), 6 (Nanotechnology) and 7 (Nano-research course) in the first semester.

Students who have been admitted based on a completed bachelor's degree in physics or a comparable study programme must take modules 2 (Advanced solid-state physics), 4 (General chemistry for physicists), 6 (Nanotechnology) and 7 (Nano-research course) in the first semester.

Students who have been admitted based on a completed bachelor's degree in electrical engineering or a comparable study programme must take modules 1 (Solid-state physics), 3 (Quantum theory), 5 (General chemistry for engineers) and 7 (Nano-research course) in the first semester.

Students who have been admitted based on a completed bachelor's degree in a nanoscience

study programme must take modules from the module catalogue for the Nanoscience study programme amounting to 21 LP and module 7 (Nano-research course) in the first semester. The examination board decides on the specific modules to be taken in each case based on the underlying bachelor's degree within the framework of admission to the master's degree programme. The selected modules may not have already been taken in the bachelor's degree programme or subsequently be taken again in the master's degree programme."

2. Appendix 1 shall be worded as follows:

1st semester	Basic module for B. Sc. Physics		Basic module for B. Sc. Chemistry		Basic module for B. Sc. Engineering	
	General chemistry for physicists (incl. Lab course)	9CP	Quantum theory	6CP	Quantum theory	6CP
	Advanced solid-state physics	6CP	Solid-state physics	9CP	Solid-state physics	9CP
	Nanotechnology	6CP	Nanotechnology	6CP	General chemistry for engineers (incl. Lab course)	6CP
	Nano-research course (Seminar + Elective module)					9CP
2nd semester	Nanochemistry					6CP
	Photonic devices					6CP
	Physics of nanoelectronic devices					6CP
	Lab course "Micro and Nanotechnology" (Processing: Litho, PVD, CVD, Etching, FIB, ...)					6CP
	Lab course "Nanosynthesis, nanosafety and nanoanalytics" (Nanostructure synthesis + Analytics: PL, Raman, X-Ray, Light Scattering, REM, TEM, ...)					6CP
3rd semester	(free choice from course catalog)					6CP
	(free choice from course catalog)					6CP
	(free choice from course catalog)					6CP
	Research lab course (thesis prep.)					12CP
4th semester	Master thesis					30CP

	Mandatory course
	Free choice from course catalogue
	Mandatory with free choice of research field

## Article 2

These amendment regulations shall enter into force on the day after their publication and shall apply to students enrolling from the winter semester 2021/2022 onwards. They shall be published in the official gazette "Amtliche Mitteilungen der Universität Siegen" (Official Notifications of the University of Siegen).

Issued based on the resolution of the Faculty Council of Faculty IV – School of Science and Technology of 3 March 2021 and 7 July 2021.

It is pointed out that pursuant to § 12, paragraph 5 of the Higher Education Act of the State of North Rhine-Westphalia (Higher Education Act – HG NRW), a violation of procedural or formal regulations of the Higher Education Act or of the university's regulations or other autonomous law can no longer be asserted after one year has elapsed since this announcement, unless

1. the regulations have not been properly published
2. the Rectorate has previously objected to the resolution of the body adopting the regulations
3. the university has been notified in advance of the formal or procedural defect, indicating the legal provision that has been violated and the fact giving rise to the defect
4. the legal consequence of the exclusion of objection was not pointed out in the public announcement of the regulations

Siegen, 12 July 2021

The Rector

Signed

(University Professor Holger Burckhart)