These degree programme and examination regulations have been worded carefully to be up to date; however, errors cannot be completely excluded. The official German text available at the Examinations Office is the version that is legally binding.

# Degree Programme and Examination Regulations for the Bachelor's Degree Programme in Chemistry and the Master's Degree Programme in Chemistry at the Faculty of Sciences at Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) – FPO BAMA Chemie – Dated 6 August 2020

Based on Section 13 (1)(2), Section 43 (5)(2), Section 58 (1) and Section 61 (2)(1) of the Bavarian Higher Education Act (Bayerisches Hochschulgesetz, BayHSchG), FAU enacts the following degree programme and examination regulations:

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#### Part I: General Provisions

#### Section 40 Scope

The degree programme and examination regulations for the Bachelor's degree programme in Chemistry (BSc Chemistry) and the consecutive Master's degree programme in Chemistry (MSc Chemistry) supplement the current version of the General Degree Programme and Examination Regulations for Bachelor's and Master's Degree Programmes at the Faculty of Sciences at FAU (**ABMPO/NatFak**).

# Section 41 Bachelor's Degree Programme, Related Degrees

(1) <sup>1</sup>The Bachelor's degree programme in Chemistry consists of modules worth 180 ECTS credits distributed over six semesters. <sup>2</sup>This includes the period for working on the Bachelor's thesis.

(2) The following Bachelor's degree programmes are considered subject-related degree programmes as defined in Section 28 (1) (2)(2) **ABMPO/NatFak**: Bachelor's degree programmes in Chemistry and Molecular Science or degree programmes with predominantly chemistry-related content accounting for at least 70 % of the total ECTS credits acquired.

#### Section 42 Master's Degree Programme, Teaching and Examination Language, Related Degrees

(1) <sup>1</sup>The Master's degree programme in Chemistry builds on the content of the Bachelor's degree programme in Chemistry. <sup>2</sup>It consists of modules worth 120 ECTS credits including the Master's thesis, distributed over four semesters.

(2) Section 4 (4) **ABMPO/NatFak** applies with the proviso that the teaching and examination language is English and that individual teaching units and examinations may be held in German; otherwise, Section 4 (4) **ABMPO/NatFak** shall remain unaffected.

(3) Master's degree programmes in which content from the core disciplines of chemistry accounts for at least 80 % of the total number of ECTS credits obtained in the degree shall be considered subject-related degree programmes as defined in Section 35 (2)(2) **ABMPO/NatFak**.

# Section 43 Examinations Committee

<sup>1</sup>The joint Examinations Committee for the Bachelor's degree programmes in Chemistry and Molecular Science and the Master's degree programmes in Chemistry and Molecular Science shall consist of six members. <sup>2</sup>The chairperson, their deputy and the further members of the Examinations Committee shall be professors at the Faculty of Sciences and appointed by the Faculty Council of the Faculty of Sciences based on the recommendation of the Department of Chemistry and Pharmacy.

# Part II: Special Provisions

# 1. Bachelor's Examination

#### Section 44 Structure of the Bachelor's Degree Programme

(1) <sup>1</sup>The Bachelor's degree programme in Chemistry consists of a foundation phase and an orientation phase. <sup>2</sup>All modules in the foundation phase are compulsory. <sup>3</sup>The orientation phase consists of compulsory modules, compulsory elective modules and an elective module in 'key qualifications'. <sup>4</sup>Details are set forth hereinafter and in **Ap-pendix 1**.

(2) Modules no. 1 to 25, 29 and 31 in **Appendix 1** are compulsory.

(3) <sup>1</sup>Modules no. 26 to 28 in **Appendix 1** are compulsory elective modules. <sup>2</sup>Further details are stipulated in Section 46.

(4) The module in key qualifications (no. 30 in **Appendix 1**) is an elective module.

# Section 45 Grundlagen- und Orientierungsprüfung (GOP)

In order to pass the Grundlagen- und Orientierungsprüfung (GOP), students must acquire at least 30 ECTS credits from modules nos. 1 and 5 - 11 in **Appendix 1** no later than the end of the third subject semester.

# Section 46 Compulsory Elective Modules

(1) <sup>1</sup>Three module packages referred to as 'Orientation module 1 - 3' each of which accounts for 10 ECTS credits can be chosen as compulsory elective modules as defined in Section 44 (3). <sup>2</sup>The compulsory elective modules are listed in a module catalogue, which is announced in accordance with local practice at the latest one week before the semester begins. <sup>3</sup>The module catalogue can be altered by the Examinations Committee with effect from the next semester. The module catalogue shall be announced in accordance with local practice at the latest one week before the semester.

(2) <sup>1</sup>The learning outcome of the previously mentioned compulsory elective modules is to allow students to specialise in selected disciplines of fundamental chemistry. <sup>2</sup>In addition, students acquire specific practical laboratory skills. <sup>3</sup>The element of choice also allows students to tailor their profile in view of their career plans.

(3) <sup>1</sup>Possible examination achievements in the compulsory elective modules are set out in Section 6 (3) and (4) **ABMPO/NatFak:** 

- 1. Written examination (60 90 min),
- 2. Oral examination (20 30 min),
- 3. Electronic examination (EE, e-examination 30 60 min),
- 4. Practical achievement (PA, series of reports 30 50 pages plus documentation of raw data), or
- 5. Seminar achievement (SA, presentation 20 30 min or report 5 10 pages).

<sup>2</sup>In justified exceptional circumstances pursuant to Section 6 (2)(3) **ABMPO/NatFak**, combinations of the options stated in sentence 1 may also be possible. <sup>3</sup>In particular, it is possible to combine a written or oral examination with achievements as set forth in Section 6 (4) **ABMPO/NatFak**. <sup>4</sup>Further details are stipulated in the module handbook.

(4) <sup>1</sup>Modules generally amount to 5 ECTS credits and usually consist of lectures (2 SWS) and seminars (2 SWS) or tutorials (2 SWS). <sup>2</sup>Any exceptions are detailed in the module handbook.

# Section 47 Bachelor's Thesis

(1) Students are required to have achieved at least 100 ECTS credits in order to be allocated a subject for the Bachelor's thesis.

(2) <sup>1</sup>The Bachelor's thesis module shall be worth a total of 10 ECTS credits. <sup>2</sup>The topic of the Bachelor's thesis ought to be such that it can be completed within a period of eight weeks, with two weeks generally allocated to the writing phase. <sup>3</sup>The deadline for

completing the thesis may be extended by two weeks on the student's request and with the supervisor's approval.

(3) As a rule, the Bachelor's thesis shall be completed in the Department of Chemistry and Pharmacy.

(4) <sup>1</sup>All full-time university lecturers and lecturers who have completed a habilitation who work at the Department of Chemistry and Pharmacy shall be entitled to allocate subjects for Bachelor's theses (supervisors). <sup>2</sup>The Examinations Committee shall have the right to grant exceptions.

(5) <sup>1</sup>At least one of the two examiners pursuant to Section 31 (7) **ABMPO/NatFak** must belong to the Department of Chemistry and Pharmacy. <sup>2</sup>If only one of the examiners belongs to the Department of Chemistry and Pharmacy, then they shall be the principal examiner.

# 2. Master's Examination

Section 48 Admissions Committee for the Master's Degree Programme <sup>1</sup>The admissions committee for the Master's degree programme in Chemistry consists of a professor as the chairperson and two further university lecturers. <sup>2</sup>The members are proposed by the Department of Chemistry and Pharmacy and appointed by the Faculty Council of the Faculty of Sciences.

#### Section 49 Qualification for a Master's Degree, Certificates and Admission Requirements

(1) <sup>1</sup>A subject-specific degree as defined in Section 34 (1)(1) **ABMPO/NatFak** is a Bachelor's degree or a Diplom degree in the subject Chemistry or Molecular Science. <sup>2</sup>Bachelor's degrees shall be recognised as subject-related degrees as defined in Section 34 (1)(1) **ABMPO/NatFak** if content from the core disciplines of Chemistry accounts for at least 80 % of the total ECTS credits obtained, and at least 25 % of this content is based on sound laboratory skills gained through the student's own independent efforts. <sup>3</sup>Applicants with a subject-related degree as defined in sentence 2 shall only be admitted to the Master's degree programme after passing an oral admission examination. <sup>4</sup>The minimum number of ECTS credits required in the event of a student not having yet completed their Bachelor's degree pursuant to Section 34 (3) **ABMPO/NatFak** is 135 ECTS credits.

(2) The admissions committee shall also consider applicants to be suitable for admission to the degree programme pursuant to (5)(3) **ABMPO/NatFak** if the subject-specific or subject-related qualification pursuant to (1) sentence 1 or 2 has significant differences according to Section 34 (2) **ABMPO/NatFak** but the applicant has successfully completed the Transition Studies Chemistry programme at the Faculty of Sciences at FAU pursuant to the currently valid version of **StuPO/STSC**.

(3) <sup>1</sup>The application for admission to the qualification assessment process according to (2)(2)(3) of the **Appendix ABMPO/NatFak** shall include

1. Proof of English language skills at CEFR (Common European Framework of Reference for Languages) level B2 – Vantage or upper intermediate and

2. In the case of (2), evidence of successfully completing the Transition Studies Chemistry programme at the Faculty of Sciences at FAU pursuant to the currently valid version of the **StuPO/STSC**.

<sup>2</sup>Evidence pursuant to sentence 1 (1) is not required if the applicant's university entrance qualification or undergraduate degree was obtained in English.

(4) <sup>1</sup>Applicants who cannot be admitted directly to the degree programme as a result of the preliminary examination and whose overall grade in the degree programme pursuant to (1)(1) or average grade of achievements to date comes to between 2.6 and 2.9 shall be invited to an oral admission examination. <sup>2</sup>Pursuant to (5)(5) of the **Appendix ABMPO/NatFak**, applicants with a subject-related degree can only be accepted onto the Master's degree programme after passing an oral admission examination pursuant to (5)(6) et seq. of the **Appendix ABMPO/NatFak** in conjunction with (3). The overall grade of the degree pursuant to (1)(2) must be 2.9 or better. <sup>3</sup>Furthermore, (4)(3) of the **Appendix ABMPO/NatFak** shall apply.

(5) <sup>1</sup>The oral admission examination pursuant to (5)(6) et seq. of the **Appendix AB-MPO/NatFak** in conjunction with (4) shall be conducted by two university lecturers from the Department of Chemistry and Pharmacy appointed by the admissions committee. <sup>2</sup>Applicants shall be assessed on the basis of their specialist and methodological skills in the fundamentals of chemistry (80 %) as well as individually chosen specialisations in the area of chemistry/molecular science (20 %).

# Section 50 Scope and Structure of the Master's Degree Programme

(1) <sup>1</sup>The Master's degree programme in Chemistry consists of compulsory, compulsory elective and elective modules. <sup>2</sup>The distribution of the modules is stipulated in **Appendix 2**. <sup>3</sup>To complete the Master's degree, students must pass the module examinations including the Master's thesis module stipulated in **Appendix 2**, amounting to a total of 120 ECTS credits.

(2) Modules no 12 and 13 in **Appendix 2** are compulsory (Master's thesis and research module).

(3) Modules no. 1 - 8 in **Appendix 2** are compulsory elective modules and account for a total of 60 ECTS credits.

(4) Elective modules (nos. 9 - 11) can be chosen on subject-related or non-subject related topics and shall account for a total of 15 ECTS credits pursuant to **Appendix 2**.

#### Section 51 Compulsory Elective Modules

(1) <sup>1</sup>A total of four module packages with a total workload of 60 ECTS credits shall be chosen as compulsory elective modules as stipulated in Section 50 (3). <sup>2</sup>First of all, students choose subject-related compulsory elective modules 1 and 2, each worth 20 ECTS credits, followed by two further module packages Supplementary compulsory elective modules A and B from the area of modern and interdisciplinary research into chemistry, each worth 10 ECTS credits.

(2) <sup>1</sup>In the subject-related compulsory elective modules 1 and 2, students acquire skills in scientific methodology for applying chemical, research-oriented methods and for developing strategies to solve chemical problems as well as the ability to carry out academic work independently. <sup>2</sup>The learning outcome has a research focus, with students

learning subject-specific methods of research and exploring their subject in more depth. <sup>3</sup>The element of choice allows students to tailor their profile in view of their career plans.

(3) The learning outcome of the supplementary compulsory elective modules A and B is for students to specifically acquire more in-depth knowledge and skills in modern, interdisciplinary fields of chemistry research.

(4) <sup>1</sup>The compulsory elective modules are listed in a module catalogue, which is announced in accordance with local practice at the latest one week before the semester begins. <sup>2</sup>The module catalogue can be altered by the Examinations Committee with effect from the next semester. The module catalogue shall be announced in accordance with local practice at the latest one week before the semester begins. <sup>3</sup>Students may choose subject-related compulsory elective modules as their supplementary compulsory elective module provided they have not previously selected these modules.

(5) The type and scope of examinations are stipulated in Section 46 (3).

# **Section 52 Elective Modules**

(1) <sup>1</sup>Students shall choose three subject-related or non-subject related elective modules worth 5 ECTS credits each. <sup>2</sup>Supplementary compulsory elective modules that students have not previously chosen (see Section 51 (1)(2) and (3)) may be selected as subject-related elective modules as defined in sentence 1. <sup>3</sup>When selecting non-subject related elective modules according to sentence 1, students may choose from all modules offered as key qualifications at FAU, apart from those that have already been included as a course achievement in their Bachelor's degree programme. <sup>4</sup>The type and scope of teaching units and examinations depend on the specific manner in which the respective module is taught and are regulated by the applicable (degree programme and) examination regulations and/or the module handbook.

(2) <sup>1</sup>The subject-related elective modules are listed in a module catalogue, which is announced in accordance with local practice at the latest one week before the semester begins. <sup>2</sup>The module catalogue can be altered by the Examinations Committee with effect from the next semester. The module catalogue shall be announced in accordance with local practice at the latest one week before the semester begins.

#### Section 53 Research Module

<sup>1</sup>The research module is one of the compulsory modules in the Master's degree programme and aims to prepare students for the Master's thesis. <sup>2</sup>It is split into an 8-week laboratory course on a current research topic (21 SWS), and accompanying main seminars (2 SWS) from one of the specialist disciplines of inorganic chemistry, organic chemistry, physical chemistry or theoretical chemistry. <sup>3</sup>In exceptional cases, students may be permitted to complete the research module in alternative research areas (for example interdisciplinary topics) provided the main focus remains on chemistry. This must, however, be approved by the Examinations Committee and a potential supervisor from the Department of Chemistry and Pharmacy who is an authorised examiner. <sup>4</sup>In particular, the research module can be completed during a stay abroad under the supervision of an external supervisor and an authorised examiner from the Department of Chemistry and Pharmacy who is responsible for grading the examination achievement. <sup>5</sup>The examination shall consist of a graded laboratory report of approximately 25 pages in length plus documentation of raw data.

# Section 54 Master's Thesis

(1) Before commencing work on the Master's thesis, students must have successfully completed the two subject-related compulsory elective modules, the supplementary compulsory elective module and the research module, coming to a total of 75 ECTS credits.

(2) The Master's thesis is intended to show that the student is capable of dealing with a problem from the field of the Master's degree programme in Chemistry independently and according to scientific methods within a set period, presenting the results in accordance with the standards of the field and using the correct language, and putting them in relation to current specialist literature.

(3) <sup>1</sup>The Master's thesis shall focus either on fundamental research or on applicationoriented research. <sup>2</sup>It shall generally be written in English; the Examinations Committee shall decide whether to grant exceptions.

(4) 30 ECTS credits shall be awarded for the Master's thesis.

(5) Section 47 (4) and (5) shall apply accordingly.

# Part III: Final Provisions

#### Section 55 Legal Validity

(1) <sup>1</sup>These degree programme examination regulations shall come into effect on the day after their publication. <sup>2</sup>They shall apply to all students who start the Bachelor's or Master's degree programme in Chemistry in the winter semester 2020/2021 or later. <sup>3</sup>Notwithstanding sentence 2, the provision stipulated in Section 49 in conjunction with Section 34 and the **Appendix ABMPO/NatFak** shall apply for the first time to applications for admission to the Master's degree programme in summer semester 2021; until then the provisions stipulated in the currently valid version of the degree programme and examination regulations for the Bachelor's degree programme in Chemistry (BSc Chemistry) and the Master's degree programme in Chemistry (MSc Chemistry) at the Faculty of Sciences at FAU – **FPOChem** – dated 25 July 2013 in conjunction with the currently valid version of the general examination regulations for the Bachelor's and Master's degree programmes in Chemistry and Molecular Science at the Faculty of Sciences at FAU – **ABMPOChemMol/NatFak** – dated 25 July 2013 shall apply.

(2) <sup>1</sup>Students who are already studying under the previously valid degree programme and examination regulations for the Bachelor's degree programme in Chemistry (BSc Chemistry) and the Master's degree programme in Chemistry (MSc Chemistry) at the Faculty of Sciences of FAU – **FPOChem** – in the version of 25 July 2013 shall be examined according to those regulations. <sup>2</sup>The degree programme and examination regulations mentioned in sentence 1 shall become invalid as of 30 September 2024. <sup>3</sup>Examinations pursuant to the degree programme and examination regulations stated in sentence 1 will be offered for the last time for the Bachelor's degree programme in summer semester 2024 and for the Master's degree programme in winter semester 2022/2023.

# Appendix 1: Structure of the Bachelor's Degree Programme in Chemistry (BSc)

Compulsory modules: green; compulsory elective modules: red; elective modules: blue

No.	Module name	Teaching unit	SWS	6 (seme	ester h	ours)	ECTS credits	Workload per semester in ECTS credits						Type and scope of the examinations	Grade factor
			L	Т	Р	S		1. sem.	2. sem.	3. sem.	4. sem.	5. sem.	6. sem.		
1	Inorganic chemistry 1	Inorganic chemistry 1	4	1			5	5						EA: Written examina- tion 90 mins	1
2	Physics 1	Experimental physics for scien- tists I	4	1			5	5						EA: Written examina- tion 90 mins	1
3	Mathematics	Mathematics for natural scien- tists	2	2			5	5						EA: Written examina- tion 90 mins	1
5	Qualitative analytical chemistry	Qualitative analytical chemistry	2	1		1	5	5						EA: Written examina- tion 90 mins	1
6	Laboratory course: Qualitative analytical chemistry	Laboratory course: Qualitative analytical chemistry			7		5	5						EA: PA (graded)	1
7	Quantitative analytical chemistry	Quantitative analytical chemistry	2		5		5	2.5	2.5					EA: Written examina- tion 60 mins + CA: PA (graded)	1
8	Inorganic chemistry 2	Inorganic chemistry 2	4	1			5		5					EA: Written examina- tion 90 mins	1
9	Organic chemistry 1	Organic chemistry 1	4	1			5		5					EA: Written examina- tion 90 mins	1
10	Physical chemistry 1	Physical chemistry 1	3	1			5		5					EA: Written examina- tion 90 mins	1
11	Theoretical chemistry 1	Theoretical chemistry 1	2	2			5		5					EA: Written examina- tion 90 mins	1
12	Physics 2	Experimental physics for scien- tists II	4	1			5		5					EA: Written examina- tion 90 mins	1
13	Preparative inorganic chemistry	Inorganic chemistry 3			7	1	5		5					EA: PA (graded)	1
14	Physical chemistry 2	Physical chemistry 2	2	2			5			5				EA: Written examina- tion 90 mins	1
15	Theoretical chemistry 2	Theoretical chemistry 2	2	2			5			5				EA: Written examina- tion 90 mins	1
16	Organic chemistry 2	Organic chemistry 2	3			2	5			5				EA: Written examina- tion 90 mins	1
17	Laboratory: Physical chemistry	Laboratory: Physical chemistry			9	1	10			10				CA: PA + EA: oral (20 mins)	1

No.	Module name	Teaching unit	SWS (semester hours)				ECTS credits	Workload per semester in ECTS credits						Type and scope of the examinations	Grade factor
			L	Т	Р	S		1. sem.	2. sem.	3. sem.	4. sem.	5. sem.	6. sem.		
18	Toxicology and jurisprudence	Toxicology and jurisprudence	2				5			2.5				EA: Written examina-	1
		Dischemistry (nort 1)	2					2.8	2.5				1		
19	Biochemistry	Biochemistry (part 7)					5			2.0	2.5			EA: Written examina- tion 90 mins *	1
20	Organic chemistry 3	Organic chemistry 3	2	2			5				5			EA: Written examina- tion 90 mins	1
21	Physical chemistry 3	Physical chemistry 3	2	1			5				5			EA: Written examina- tion 90 mins	1
22	Theoretical chemistry 3	Theoretical chemistry 3	2	2			5				5			EA: Written examina- tion 90 mins	1
23	Laboratory: Organic chemistry	Laboratory: Organic chemistry			13	1	10				10			EA: PA (graded)	1
24	Inorganic chemistry 4	Inorganic chemistry 4	2	2			5						5	EA: Written examina- tion 90 mins	1
25	Organic chemistry 4	Organic chemistry 4	2	2			5					5		EA: Written examina- tion 90 mins	1
26	Orientation module 1	see Section 46 (1)	2			2	5					2.5	2.5	EA: pursuant to Sec- tion 46 (3)	1
	Orientation module 1 laboratory	see Section 46 (1)			8	1	5					2.5	2.5	EA: pursuant to Sec- tion 46 (3)	1
27	Orientation module 2	see Section 46 (1)	2			2	5					5 <sup>2)</sup>	0 2)	EA: pursuant to Sec- tion 46 (3)	1
	Orientation module 2 laboratory	see Section 46 (1)			8	1	5					0 2)	5 <sup>2)</sup>	EA: pursuant to Sec- tion 46 (3)	1
28	Orientation module 3	see Section 46 (1)	2			2	5					5 <sup>2)</sup>	0 <sup>2)</sup>	EA: pursuant to Sec- tion 46 (3)	1
	Orientation module 3 laboratory	see Section 46 (1)			8	1	5					0 <sup>2)</sup>	5 <sup>2)</sup>	EA: pursuant to Sec- tion 46 (3)	1
29	Data management	Data management			4	2	5					5		EA: PA (graded)	1
30	Key qualifications <sup>1)</sup>	Key qualifications					5					5		ungraded	0
31	Bachelor's thesis	Bachelor's thesis			13		10						10	Written thesis (approx. 35 pages)	2
		Total (per semester) Total SWS: 180 Total ECTS: 180	58	24	82	17	180	27.5	32.5	30	30	30	30		

Key: L = lecture T = tutorial S = seminar Lab = laboratory course SWS = semester hours ECTS = credits from European Credit Transfer System CA = course achievement EA = examination achievement PA = practical achievement pursuant to Section 6 (4) ABMPO/NatFak SA = seminar achievement pursuant to Section 6 (4) ABMPO/NatFak TA = tutorial achievement pursuant to Section 6 (4) ABMPO/NatFak

\* Please note: Students may choose to obtain the examination of the module B19 either by taking a 90 minute written examination or two partial examinations of 60 minutes each in the individual subject areas (biochemistry 1 and biochemistry 2).

<sup>1)</sup> Modules can be selected from the range of modules in key qualifications offered at FAU. The type and scope of teaching units and examinations depend on the specific manner in which the respective module is taught and are regulated by the applicable (degree programme and) examination regulations and/or the module handbook.

<sup>2)</sup> Teaching units in orientation modules 2 and 3 including laboratory course may also be taken in the 6th or 5th semester for organisational reasons; see the module handbook for details.

# Appendix 2: Structure of the Master's Degree Programme in Chemistry (MSc)

Compulsory modules: green; compulsory elective modules: blue; elective modules: grey.

No.	Module name	Teaching unit	sws	(sem	ester h	ours)	ECTS credits	Wo	orkload   in ECT	oer sem S credit	ester s	Type and scope of the examination	Grade factor
			L T P S			1st sem.	2nd sem.	2nd 3rd 4th sem. sem. sem.					
1	Subject-related compulsory elective module 1	and Section 51 (1)	4			2	10	5	5			see Section 51 (5)	1
2	Subject-related compulsory elective module 1 – laboratory				15		10	5	5			see Section 51 (5)	1
3	Subject-related compulsory elective module 2	coord Coortion E1 (1)	4			2	10	5	5			see Section 51 (5)	1
4	Subject-related compulsory elective module 2 – laboratory	- see Section 51 (1)			15		10	5	5			see Section 51 (5)	1
5	Supplementary compulsory elective module A <sup>1)</sup>	see Section 51 (4)	2			1	5	5				see Section 51 (5)	1
6	Supplementary compulsory elective module B <sup>1)</sup>	see Section 51 (4)	2			1	5		5			see Section 51 (5)	1
7	Supplementary compulsory elective module C <sup>1)2)</sup>	see Section 51 (4)	2			1	5	5				see Section 51 (5)	1
8	Supplementary compulsory elective module (laboratory) <sup>1)</sup>	see Section 51 (4)			7		5		5			see Section 51 (5)	1
9	Elective module 1 <sup>3)</sup>	see Section 52 (1)					5			5		see Section 52 (2)	0
10	Elective module 2 <sup>3)</sup>	see Section 52 (1)					5			5		see Section 52 (2)	0
11	Elective module 3 <sup>3)</sup>	see Section 52 (1)					5			5		see Section 52 (2)	0
12	Research module	see Section 53			21	2	15			15		see Section 53 (5)	1
13	Master's thesis	Master's thesis			35		30				30	EA: written assignment approx. 20,000 words	1
Kovi	Total (per semester) Total SWS: 120 Total ECTS: 120		14		93	9	120	30	30	30	30		

Key: L = lecture

T = tutorial Lab = laboratory course S = seminar SWS = semester hours

ECTS = credits from European Credit Transfer System CA = course achievement

EA = examination achievement PA = practical achievement pursuant to Section 6 (4) **ABMPO/NatFak** 

# SA = seminar achievement pursuant to Section 6 (4) ABMPO/NatFak TA = tutorial achievement pursuant to Section 6 (4) ABMPO/NatFak

 <sup>&</sup>lt;sup>1)</sup> The modules 'supplementary compulsory elective module A', 'supplementary compulsory elective module B' 'supplementary compulsory elective module C' and 'supplementary compulsory elective module (laboratory)' are thematically linked. The semesters in which they are taken may vary. See the module handbook for details.
<sup>2)</sup> The module 'supplementary compulsory elective module C' can upon request be replaced by an additional 'supplementary compulsory elective module (laboratory)' amounting to 7 SWS. See the module handbook for details.
<sup>3)</sup> According to the courses on offer, elective modules can be taken in either the first or the second subject semester.

Published according to the resolution of the University Senate on 22 July 2020 and the authorisation of Vice President Prof. Dr. Bärbel Kopp on 6 August 2020.

Erlangen, 6 August 2020

Prof. Dr. Bärbel Kopp Vice President Education

These regulations were established on 6 August 2020 at the University of Erlangen-Nürnberg and displayed for public inspection at the University of Erlangen-Nürnberg on 6 August 2020. The date of publication is 6 August 2020.