

Module catalogue Bachelor of Science

Zentralbankwesen/Central Banking degree programme

Updated for starting date: 1 October 2024

Last updated: 31 October 2024



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1 Degree programme concept

Ever since it was founded in 1980, the educational concept of the Deutsche Bundesbank University of Applied Sciences (hereinafter "University") has offered three things that **set it apart**:

- orientation to the Bundesbank (→ focus on the Bundesbank's core business areas);
- dual studies (→ dovetailing of theoretical studies and practical experience);
- dual qualification (→ students obtain a university degree and simultaneously qualify for a career in the Upper Intermediate Service at the Bundesbank).

The Bachelor's degree programme essentially follows these guiding principles, but places even greater emphasis on the role of the Bundesbank in the Eurosystem and on providing students with methodological expertise rather than just transferring knowledge. In addition, students are offered **options** for shaping their course of study, meaning that although they gain an overview of all core business areas of a central bank, they can also acquire an in-depth understanding of certain business areas and the key methods in use there.

The degree programme culminates in a **Bachelor of Science** degree, as **quantitative business administration methods** form a common thread throughout the programme, representing roughly half of the curriculum. The bilingual title of the degree programme (**Zentralbankwesen/Central Banking**) reflects the fact that the curriculum is largely international in nature due to the Bundesbank being part of the ESCB and therefore selected classes are held in **English**. Opportunities to take optional English courses as well as participate in summer schools or attend the International Week with students from partner universities help students hone their English skills and improve their ability to navigate the international environment.

Besides the quantitative and English-language content of the curriculum, the degree programme comprises a host of modules that focus closely on the application and interpretation of laws and regulations. Given that the Bundesbank has the status of a supreme federal authority with a wide range of responsibilities, **legal knowledge** is also needed in order to be able to perform tasks in the Upper Intermediate Service. With the exception of a few modules that deal exclusively with legal topics, legal themes – in keeping with the interdisciplinary approach of the degree programme – are taught together with banking operations and financial mathematics content.

The **dual concept** of the Bachelor's programme ensures a high degree of **practical relevance** through constant alternation between theoretical and practical modules, with the material covered by these modules being coordinated in parallel by the University. Students complete a total of seven different internships and are familiar with the corporate culture in the business units of the Bundesbank/their recruiting authority (e.g. the Federal Financial Supervisory Authority (*Bundesanstalt für Finanzdienstleistungsaufsicht* – BaFin)) at the end of their studies. Both the **Bachelor's thesis, with its strong practical focus**, and a final five-month internship ensure a seamless transition into employment.

The degree programme follows a fixed structure (see also Sections 1.1 and 1.2), meaning that modules have to be completed by students in a set order, taking into account their specialisations/choice of elective modules. The modules fit together and build on each other thematically. As a result, students do not need to consider how their modules tie in with each other and what previous knowledge they require, as the programme ensures this by design. Students do not need to register for individual modules; this is done automatically. The degree programme is a three-year programme and must be completed by students within the prescribed period. This period may only be extended, or study stages repeated, under mitigating circumstances judged on a case-by-case basis.

The qualifications awarded in this degree programme are based on the qualifications framework for German higher education qualifications established by the Standing Conference of the Ministers of Education and Cultural Affairs from Germany's federal states. In addition to broadening and deepening their knowledge of a subject, the goal is to teach students the ability to apply this knowledge to

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professional activities and problems using academic methods. This includes empowering students to generate new knowledge independently.

The abilities required to this end can be broken down into four categories: specialist expertise, methodological expertise, interpersonal skills and intrapersonal skills. Specialist expertise comprises all the knowledge and skills needed to successfully cope with the tasks and problems that are part and parcel of a particular professional line of work and to overcome any new challenges that may arise. In particular, it covers basic knowledge of all economic, legal and public finances disciplines, including the methods used in each, and language proficiency.

Methodological expertise refers to the ability to use appropriate methods and strategies to structure one's own activities and to make decisions, but also to plan, do and check. This also includes self-organisation, in particular the ability to set priorities, use one's time efficiently and effectively, and obtain information. Methodological expertise also includes the use of general academic working methods, the ability to independently obtain and evaluate information and to solve problems using analytical means, as well as responding flexibly to societal shifts, the use of modern information and communication technologies, mastery of organisational, planning and decision-making techniques and mastery of presentation and moderation techniques.

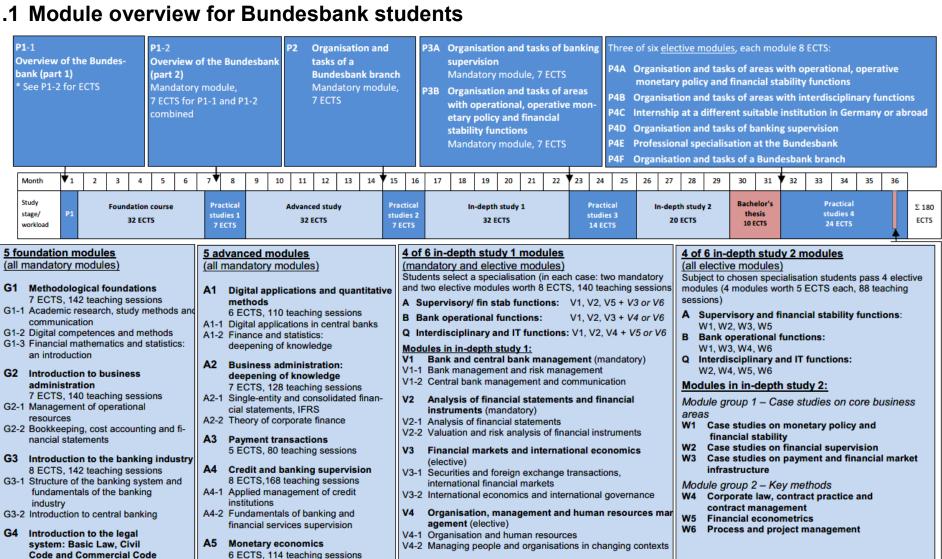
Interpersonal skills relate to the development and shaping of social and professional relationships, with the ability and willingness to behave in an appropriate, cooperative and goal-oriented manner during social interactions. Amongst other things, these skills cover the ability to work in a team, take criticism, handle conflicts, communicate, work with others, manage staff and empathise. Intercultural skills, which are cultivated during English language training, for example, are also a subset of interpersonal skills.

Finally, intrapersonal skills concern how people treat themselves and use their skills and actively apply themselves in their professional work. These skills include, amongst other things, the ability to adequately and critically self-reflect and self-assess, as well as the willingness to create conditions for further professional development. In addition, they are about how people deal with stress, their perseverance and work motivation, their ability and willingness to assume responsibility, as well as their ability to communicate appropriately. Intrapersonal skills include, in particular, the ability to practise self-criticism, willingness to assume responsibility, self-confidence, determination and assertiveness, resilience, the ability to cope with stress, self-organisation and self-motivation, the ability to innovate, adaptability to changing work requirements and appropriate communication with the social environment.

Besides imparting specialist and interdisciplinary knowledge through theoretical and practical study units, plenty of time is also dedicated to working on **personal and social skills**. For example, students can attend events focused on drawing up a "student code of conduct", two communication seminars and regular feedback events. In addition, living together on campus, working together on case studies and business games as well preparing for exams in study groups play a key part in the development of their social skills. In the practical modules, students gain hands-on experience of the work routines at the recruiting authorities and have to adapt to a range of working environments and teams of staff. Each student's commitment, social conduct and analytical thinking are also graded as part of the official assessment of the seven practical modules, meaning that they influence the student's final grade.

Students are also encouraged to play an active role in shaping their study experience by making their voices heard at an in-person general meeting on academic life at the University, which is held once or twice a year. In addition, there is a weekly event with student representatives in the student council in which students can express their comments and criticism to university officials, while the academic senate, on which two students sit as voting members, takes positions on all matters of fundamental importance relating to teaching, studying, training and research.

1.1 Module overview for Bundesbank students



V5 Banking, securities and insurance supervision (elective)

V5-1 Basel Capital Accord

V5-2 Securities and insurance supervision

V6 Digital transformation und advanced analytics (elective)

V6-1 Digital transformation

V6-2 Advanced analytics

V6-3 Use cases

Total: 32 ECTS, 560 teaching sessions

G5 Principles of economics

5 ECTS, 88 teaching sessions

5 ECTS, 90 teaching sessions

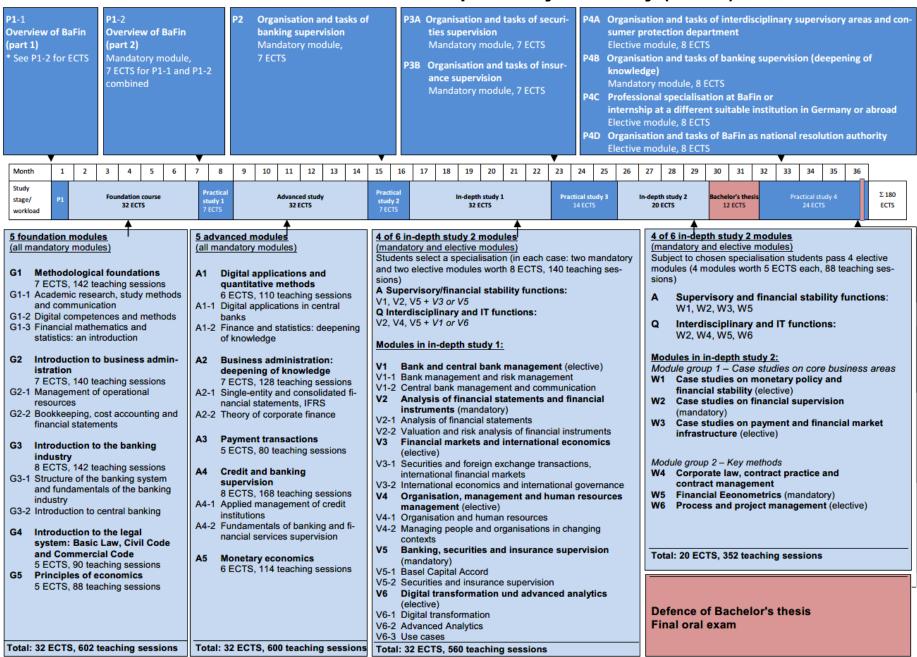
Total: 32 ECTS, 602 teaching sessions

Total: 32 ECTS, 600 teaching sessions

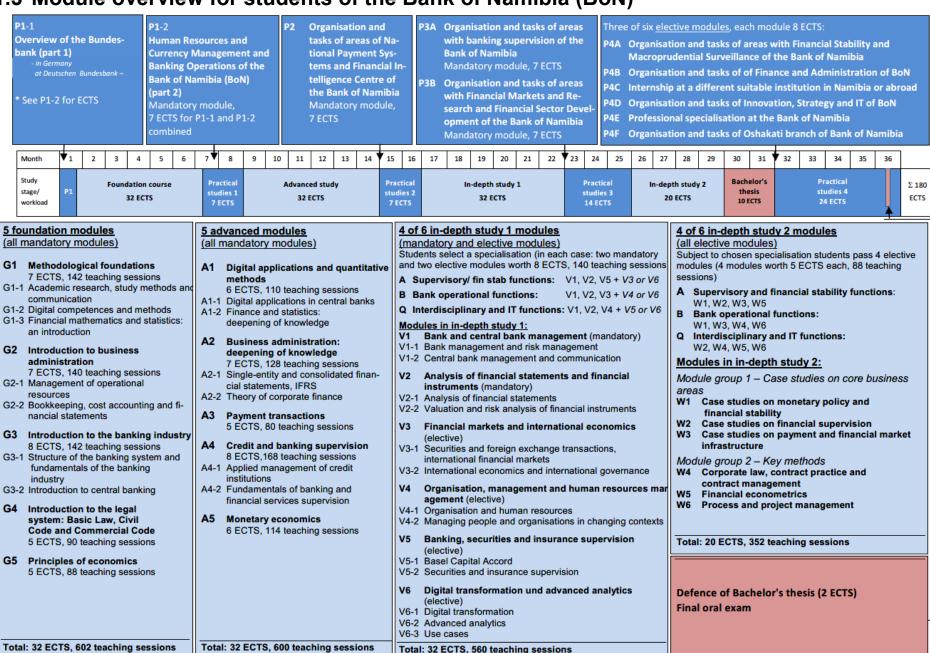
Total: 20 ECTS, 352 teaching sessions

Defence of Bachelor's thesis (2 ECTS) Final oral exam

1.2 Module overview for Federal Financial Supervisory Authority (BaFin) students



1.3 Module overview for students of the Bank of Namibia (BoN)



2 Theoretical studies

The programme's theoretical studies set themselves apart by virtue of the sheer variety of teaching methods they incorporate. These range from in-person/online/hybrid lectures and exercises through to business games and role playing and even to the use of IT tools and game-design teaching elements ("gamification"), all of which involve students working together to complete tasks, solve problems and learn how to act with a goal in mind. In addition, time is built in for self-directed study. While the University gives students a broad introduction to the subject of central banking and methodological foundations using the above-mentioned teaching methods in the first two six-month stages of study, i.e. the foundation course and advanced study, students are able to specialise and choose elective modules in the following two stages of study (as well as in their practical studies; see Chapter 3). At the in-depth study stage, students first decide where they want to focus their area of study by choosing one of the following specialisations offered by the University:

Α	Q	В
Supervisory and	Interdisciplinary	Bank operational
financial stability functions	and IT functions	functions

In line with the specialisation they have selected, students can also choose an elective module to take. The specialisations and elective modules are geared towards the skills and methods that are important in specific areas of a central bank or a banking supervisory authority. In accordance with the study regulations, each recruiting authority may modify the curriculum and structure of degree programme specialisations in agreement with the University. Accordingly, Bundesbank and BaFin students have the following options for specialisation:

Overview 1: Modules¹ for each specialisation and recruiting authority during in-depth study periods

Specialisation Recruiting authority	Supervisory and financial stability functions	Interdisciplinary and IT functions	Bank operational functions					
		udy 1 modules						
(In line with the selected	specialisation, three mandate	pry modules and one elective i	module must be completed)					
Bundesbank Bank of Namibia	V1, V2, V5 and either V3 or V6	V1, V2, V4 and either V5 or V6	V1, V2, V3 and either V4 or V6					
BaFin	V1, V2, V5 and either V3 or V6	V2, V4, V5 and either V1 or V6						
	In-depth st	udy 2 modules						
(In line w		the following modules must b	e completed)					
Bundesbank Bank of Namibia	W1, W2, W3, W5	W2, W4, W5, W6	W1, W3, W4, W6					
BaFin	W1, W2, W3, W5	W2, W4, W5, W6						

¹ Key: Overview of in-depth study modules

In-depth study 1:	In-depth study 2:
 V1: Bank and central bank management V2: Analysis of financial statements and financial instruments V3: Financial markets and international economics V4: Organisation, management and human resources management V5: Banking, securities and insurance supervision V6: Digital transformation and advanced analytics 	 W1: Case studies on monetary policy and financial stability W2: Case studies on financial supervision W3: Case studies on payment transactions and financial market infrastructure W4: Corporate law, contract practice and contract management W5: Financial econometrics W6: Process and project management

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Once students reach the in-depth study stage, there is a greater focus on self-directed study. For instance, the topics they cover in reports, seminar papers and presentations and then in the Bachelor's thesis they write during in-depth study 2, where they are free to choose their own supervisors and topic, are based on their choice of modules and areas of expertise.

To help students to prepare for the above-mentioned active learning-based forms of examination that have to be taken at the in-depth study stage, the University offers support in the form of compulsory classes and optional extracurricular courses. Lectures on "academic research" (G1-1a, module: Methodological foundations) focus on study and learning methods at the beginning of the students' theoretical studies, i.e. in the foundation course. Later on, at the start of the in-depth study stage, optional events offered across the span of eight teaching sessions focus on academic work in the sense of writing academic texts and preparing presentations. It is primarily during the optional events that students are shown the basics and the process of producing academic work as well as coached on how to produce seminar papers and written work in reports and on how to complete their Bachelor's thesis. Specifically, this comprises planning and organising the writing process before then carrying it out (selecting and evaluating literature, structuring, writing in the narrower sense, presenting findings, etc.). The events also look at the types of literature sources and rankings, an overview of academic approaches and methods (desk research, quantitative and qualitative research methods, focus on structure and presentation of findings), and at fundamental aspects of selecting research methods. In addition, they examine formal aspects of academic work and quality criteria and touch upon the topics of academic integrity and ethical aspects of producing academic work. These courses are rounded off by a 90-minute information event at the Frankfurt Central Office Library, in which students can learn about the research resources available to them among the library's specialist books and media databases as well as in the Bundesbank's press archive.

The learning objectives of these events are, in particular, the following:

- Students have knowledge of the process and methods involved in academic work that are necessary for preparing and writing academic texts.
- In addition, they are able to present academic content and views in a manner that can be understood by others.
- They know how to structure (standardised) introductions, summaries/conclusions and abstracts.
- Students recognise the nature and usefulness of the academic research process and of taking a systematic approach.
- They are able to obtain an overview of the current state of debate on a topic or research area.
- Students are familiar with various research methods and can choose between them to suit their goals.
- They can assess the quality of literature sources and distinguish between good and less suitable sources.
- They are familiar with the formal aspects of academic work.

The following is a list of the main works used to this end (always the latest edition):

- Goldenstein, J. et al.: Wissenschaftliche(s) Arbeiten in den Wirtschaftswissenschaften. Berlin.
- Kornmeier, M: Wissenschaftlich schreiben leicht gemacht (für Bachelor, Master und Dissertation). Stuttgart.
- Stickel-Wolf, C.; Wolf, J.: Wissenschaftliches Arbeiten und Lerntechniken: Erfolgreich studieren gewusst wie! Berlin.
- Theisen, M. R.: Wissenschaftliches Arbeiten. Erfolgreich bei Bachelor- und Masterarbeit. Munich.

Teaching is complemented by the ILIAS learning platform. It provides students with all learning materials and supporting materials for preparation and revision. The learning platform can be accessed via the internet on any end device, at any time and in any place. Students are offered an introduction to the learning portal at the start of their first semester.

Despite the options offered to students and the opportunities they have to play an active role in shaping their study experience, the overall course of study remains general in nature and covers the core business areas of a central bank or banking supervisory authority. The decisions made regarding

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specialisation and elective module provide an indication of the graduates' subsequent area of employment, professional growth and future academic career, but do not prejudice it.

The 180 credits acquired by students under the European Credit Transfer and Accumulation System (ECTS) upon completion of their degree also promote student mobility. According to Section 3(3) of the curriculum, one ECTS credit corresponds to 30 hours' workload. Thanks to the transferability of ECTS grades, it is possible for periods of study and forms of assessment undertaken at this University, as well as the skills and qualifications obtained, to be recognised by other state or state-accredited universities or comparable institutions in Germany or abroad. In addition, the University recognises equivalent periods of study and forms of assessment undertaken at other universities in its Zentralbankwesen/Central Banking degree programme (see Section 29 of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Verordnung über den Vorbereitungsdienst für den gehobenen Bankdienst der Deutschen Bundesbank – GBankDVDV)).

The bilingual title of the degree programme reflects the fact that the curriculum is largely international in nature and therefore selected classes are held in English.

A strong command of written and spoken English is not only an essential prerequisite for handling the academic content of the Zentralbankwesen/Central Banking degree programme – students will also need it if they are to be able to navigate the international environment in which the Bundesbank's Upper Intermediate Service operates. The University therefore sees it as its responsibility to enable students to develop their language skills in the best possible way over the course of their studies.

Given students' lower English-language proficiency in their first year, the University does not focus on teaching in English or assessing students in English during the foundation course – instead, it provides students with an opportunity to work on their language skills. To this end, the University offers optional language courses that are tailored to the syllabus and students' future areas of employment. In order to boost the appeal of these courses and ensure that they can be taken by all, they have fixed weekly morning slots in the lecture timetable to avoid any scheduling conflicts with other activities. This means that students have the chance to work on their language skills based on their individual level of proficiency.

The share of English-language teaching increases steadily starting at the advanced study stage. Owing to the set mandatory modules that students are required to complete, it is not possible for them to switch to German-language modules. Students are also required at this stage to take part of their written exams in English. They thus have extensive opportunities over the course of the advanced study stage to continue honing their language skills and also to build up an additional, specialist vocabulary.

From in-depth study 1, English-language teaching is accompanied by active learning-based English-language exams. These take the form of written papers, presentations and oral exams and further promote the active use of the English language by students. Should students still wish to continue honing their English skills, optional courses can also be organised in individual cases at this stage of the programme. As a result, students refine their English skills over the course of the programme in such a way that they can understand challenging and complex specialist texts and also comprehend implied meaning. Students can also follow specialist discussions on central banking topics. Students will be able to communicate with each other spontaneously and fluently. In addition, the goal is to leave students with a foundation on which they can further develop their English skills so that they can use English effectively and flexibly in their professional lives.

The way in which **the percentage of English-language study content** (classes, independent study and exams) **in students' theoretical studies** is calculated is explained in more detail on the following pages.

Overview of percentage of English-language study content (teaching sessions, independent study and exams) in theoretical studies

Calculation of percentage of English-language study content in module (total) = contact hours in module[TS] x percentage of English-language teaching sessions[%] + remaining independent study for exams[TS] x percentage of exam in English[%] according to module catalogue

*1:1 or 1:0.5 depending on the study stage or module (see the explanatory notes on the next page)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	4
				nount of							1216 - 511				Total	1
	t	eachin	ig sess	ions (acc	10 - 22	to mo	dule			A TOLERON	Determin		3333		English	Т
	_	_		catalogi	ie)			_	amour	t of Engli	sh-languag	e independe	ent study		study content	4
		le ng sessions)	le ng sessions)	in module	sessions in contact hours in module sessions)	Percentage of English-language teaching sessions in contact cours.	Number of English-language teaching sessions in contact nours in 45-minute teaching sessions)	ndent study in module (TOTAL), tact hours ig sessions)	study in module to prepare contact hours (%)	r to prepare forfrevise material dule	endent study to prepare hours (in 45-minute teaching during contact hours)	ng independent study for exams, i.e. hours – independent study sessions)	module catalogue	Amount of English-language independent study to prepare for exams (in 45-minute teaching sessions)	confact hours e independent study to revise independent study to prepare for ns)	
Module/name	ECTS	Workload in module (in 60-minute teaching	Workload in module (in 45-minute teaching	Percentage of contact hours (%)		Percentage of Eng hours	Number of English-4 hours (in 45-minute teaching	Amount of independent study i.e. workload – contact hours (in 45-minute teaching sessions)	Percentage of independent for/revise material taught in		Amount of English-language indep forfrevise material taught in contact sessions and according to share of English-language teaching sessions	Amount of remainit workload - contact (in 45-minute training	English-language content in module exams according to (%)	Amount of English-lexams (in 45-minute teaching	Number of English-language + amount of English-language material from contact hours + amount of English-language exams (all in 45-minute teaching session	
31: Methodological foundations	7	210	280	51%	142	0%	0	138	97%	138	0	0	0%	0	0	_
G2: Introduction to business administration	7	210	280	50%	140	4%	6	140	100%	140	6	0	0%	0	12	4
G3: Introduction to the banking industry	8	240	320	44%	142	38%	54	178	100%	142	54	36	30%	11	119	4
G4: Introduction to the legal system: Basic Law, Civil Code and	5	150	200	45%	90	0%	0	110	100%	90	0	20	0%	0	0	1
Commercial Code G5: Principles of economics	5	150	200	44%	88	38%	33	112	100%	88	33	24	50%	12	78	1
Total G modules	32	960	1280	=	602	=	93	678	=	598	93	80	=	23	209	1
A1: Quantitative methods	6	180	240	46%	110	0%	0	130	100%	110	0	20	0%	0	0	٩.
A2: Business administration: deepening of knowledge	7	210	280	46%	128	45%	58	152	100%	128	58	24	50%	12	128	1
A3: Payment transactions	5	150	200	40%	80	5%	4	120	100%	80	4	40	0%	0	8	1
A4: Credit and banking supervision	8	240	320	53%	168	4%	6	152	90%	151	5	1	0%	0	11	1
A5: Monetary economics	6	180	240	48%	114	54%	62	126	100%	114	62	12	60%	7	131	1
fotal A modules	32	960	1280	-	600	=	130	680	=	583	129	97	=	19	279	1
/1: Bank and central bank management	8	240	320	44%	140	4%	6	180	100%	140	6	40	0%	0	12	T
/2: Analysis of financial statements and financial instruments	8	240	320	44%	140	14%	20	180	100%	140	20	40	30%	12	52	1
/3: Financial markets and international economics	8	240	320	44%	140	61%	85	180	50%	70	43	110	40%	44	172	1
/4: Organisation, management and human resources management	8	240	320	44%	140	32%	45	180	50%	70	23	110	40%	44	112	1
/5: Banking, securities and insurance supervision	8	240	320	44%	140	44%	61	180	100%	140	61	40	50%	20	142	1
/6: Digital transformation and advanced analytics	8	240	320	44%	140	30%	42	180	100%	140	42	40	30%	12	96	1
otal V1 modules: 4 out of 6 modules taken	32	960	1920	-	840	=	259	1080	=	700	194	380	=	132	585	1
V1: Case studies on monetary policy and financial stability	5	150	200	44%	88	80%	70	112	50%	44	35	68	100%	68	173	1
V2: Case studies on financial supervision	5	150	200	44%	88	16%	14	112	50%	44	7	68	100%	68	89	1
N3: Case studies on payment and financial market infrastructure	5	150	200	44%	88	10%	9	112	50%	44	5	68	0%	0	14	1
N4: Corporate law, contract practice and contract management	5	150	200	44%	88	10%	9	112	50%	44	5	68	0%	0	14	T
W5: Financial econometrics	5	150	200	44%	88	34%	30	112	100%	88	30	24	30%	7	67	1
N6: Process and project management	5	150	200	44%	88	11%	10	112	50%	44	5	68	0%	0	15	1
Total V2 modules: 4 out of 6 modules taken	20	600	1200		528	-	142	672	-	308	86	364	-	143	371	1
Total (theoretical studies)	_		5680												1444	+

determine the percentage for a particular student, it is ecessary to factor out the indepth study 1 and 2 (V1/V2) modules that, based on their pecialisation/elective module, they do not take.

25,4% English share total

Determining the percentage of English-language study content (including exams): explanatory notes and assumption

1) Assumptions made when calculating the percentage of English-language content in modules with written and oral exams

a) Revision: Students go over what they have been taught during their contact hours at a ratio of 1:1

Students revise more intensively for modules with written exams or an oral exam (G1-G5, A1-A5 and V1, V2 and V5, W5) than they do for modules with active learning-based forms of examination, which require the preparation of seminar papers, presentations or reports. This also has an impact on the percentage of English-language study content that is revised. It is therefore assumed that the time spent on independent study for English-language content is roughly the same as the *percentage of English-language teaching* specified in the module catalogue. This means:

- i. One hour of independent study for one teaching session in German (1:1)
- ii. One hour of independent study for one teaching session in English (1:1)
- b) Preparation for written and oral exams:

The students' remaining workload (workload ./. contact hours ./. independent study) is assumed to be exam preparation. The way in which this preparation time is divided between German and Englishlanguage content is based on the *percentage of the exam that is in English*:

- i. Independent study to revise German-language content -> dependent on percentage of the written exam that is in German
- ii. Independent study to revise English-language content -> dependent on percentage of the written exam that is in English

Assumptions made when calculating the percentage of English in modules with active learningbased forms of examination

a) Students go over what they have been taught during their contact hours at a ratio of 1:0.5

Experience has shown that students spend less time on independent study when revising what they have been taught during contact hours for modules without written exams, as students focus more on preparing seminar papers, presentations or reports. The time spent on independent study of English-language study content is weighted according to the *percentage of English-language lectures* specified in the module catalogue:

- i. $\frac{1}{2}$ hour of independent study for one teaching session in German (0.5:1)
- ii. $\frac{1}{2}$ hour of independent study for one teaching session in English (0.5:1)
- b) Students prepare a seminar paper/presentation or report

The students' remaining workload (workload ./. contact hours ./. independent study) is assumed to be preparation for active-learning based forms of examination. The time spent on English-language study content is determined based on the *percentage of the exam that is in English*:

- i. Preparation time for German-language content -> dependent on percentage of the seminar paper, presentation or written and oral parts of report that is in German
- ii. Preparation time for English-language content -> dependent on percentage of the seminar paper, presentation or written and oral parts of report that is in English

3) Formula for calculating percentage of English-language study

Percentage of English-language study in module (total) =

contact hours in module x percentage of English-language teaching + independent study to revise material taught during contact hours*x percentage of English-language teaching + remaining independent study for exam x percentage of exam in English as listed in module catalogue

^{* 1:1} or 1:0.5 depending on the study stage or module.

2.1 Foundation course

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
P1		Fot	ında	ation	ı coı	ırse		P1		Ad	dvan	ced	stud	ly		P2				depti idy 1				ract stud				depi udy			ache r's hesis			actic udy		Pa per / ora I exa m

Module name (5 mandatory modules incl. module units)	ECTS ² credits	Contact hours (45-minute teaching sessions)	Workload (hours)	Form of examination (percentage in English)
G1: Methodological foundations (Mandatory module)	7	142	210	Written exam,
G1-1 Academic research, study methods and communication		32	30	180 minutes
G1-2: Digital competences and methods		54	90	
G1-3: Financial mathematics and statistics: an introduction		56	90	
G2: Introduction to business administration (Mandatory module)	7	140	210	Written exam,
G2-1: Management of operational resources		68	105	180 minutes
G2-2: Bookkeeping, cost accounting and financial statements		72	105	
G3: Fundamentals of the banking industry (Mandatory module)	8	142	240	Written exam,
G3-1: Structure of the banking system and fundamentals of the banking industry		68	120	180 minutes (30)
G3-2: Introduction to central banking		74	120	
G4: Introduction to the legal system: Basic Law, Civil Code and Commercial Code (Mandatory module)	5	90	150	Written exam, 120 minutes
G5: Principles of economics (Mandatory module)	5	88	150	Written exam, 120 minutes (50)
Total	32	602	960	5 module exams

 $^{^2}$ Credits under the European Credit Transfer and Accumulation System. According to Section 3(3) of the curriculum, one ECTS credit corresponds to 30 hours' workload.

Module	Methodological foundations
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G1
Academic level of the	Foundation course
module	
Туре	Mandatory; quantitative content around 67%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
ECTS credits	7 ECTS credits
Academic workload	210 hours, of which 106.5 contact hours (142x45-minute teaching sessions) and 103.5 hours of independent study
Duration of the module	6 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats; lectures, exercises, case studies
Examination date	At the end of the study stage
Form of examination; preparation time (percentage in English)	Written exam covering tasks from module units G1-1, G1-2 and G1-3; 180 minutes
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Study contents	Scientific work and study methodology, communication Creating scientific texts and presentations Legal case resolution in the expert opinion style Basic digital skills and methods, i.e., the ability to navigate and actively shape the digitized corporate world Financial mathematics; introduction to statistics
Qualification objectives	The students become familiar with the scientific learning and working process. In this context, guidance on learning methods is provided and discussed, enabling them to reflect on and improve their individual learning processes. Additionally, skills in presentation techniques as well as team and communication abilities are enhanced. The students are also introduced to the relevant office applications. Furthermore, the students acquire basic knowledge and understanding of digitalization and digital transformation in the areas of "processes," "projects," "analysis," and "innovation," thereby gaining the ability to comprehend and shape changes in these fields. In addition, the students master and understand the fundamentals of financial mathematics as well as the objectives and typical problems of statistics.
Preparation	A bridge course on mathematics at the start of the foundation course (20x45-minute teaching sessions) provides students with the knowledge to successfully participate in and adequately prepare for module G1. To prepare for participation in module G1, students are advised to study the recommended preliminary reading texts for module units G1-1, G1-2 & G1-3.
Prerequisites for participation	None; students are advised to study the recommended preliminary reading texts for module units G1-1, G1-2 and G1-3.
Applicability of the module	The module counts towards other relevant degree programmes. Module A6 builds directly on the content in this module; all modules with quantitative and IT-related content build indirectly on module G1. Furthermore, the knowledge gained is applicable to activities in numerous areas of the Bundesbank, BaFin and other central banks.
Connection to other modules	Module unit G1-3 lays the foundation for modules A1, A2, A3, V1, V2, V5, W5.
(Potentially) followed by	A1 Quantitative methods A2 Business administration: deepening of knowledge W6 Process and Project management

Module unit of G1	Academia receased, study methods and communication
	Academic research, study methods and communication
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G1-1
Academic level of the module	Foundation course
Туре	Module unit; quantitative content 10%, English-language content according to the table on page 12 and the appendix to the module catalogue,legal content 31%
Academic workload	30 hours, of which 24 contact hours (32x45-minute teaching sessions) and 6 hours of independent study
Teaching methods	Classes, exercises, group work, situational tasks, role playing with critical reflection and feedback, video training
Lecturer responsible for the module	Professor Matthias Goeken
Academic objectives	Students are taught about the academic learning and working process. Information on learning methods is provided and discussed so that they are able to reflect on and improve their individual learning processes.
	Students will also be able to use Office applications essential to the preparation of academic papers and presentations. This includes using Microsoft Word to write, edit and publish academic texts and other exam work and using PowerPoint in presentations.
	Mastery of key competencies such as presentation techniques, teamwork and communication skills are vital to business practice. Students will refine these skills and gradually expand them.
	Students will be able to present their legal knowledge in the context of resolving a legal case in the style of a legal opinion.
Preliminary reading	Stickel-Wolf, Chr. / Wolf, J.: Wissenschaftliches Arbeiten und Lerntechniken, latest edition. Theisen, Manuel R.: Wissenschaftliches Arbeiten: Technik – Methodik. Munich, latest edition. Balzert et al.: Wissenschaftliches Arbeiten. Wissenschaft, Quellen, Artefakte,
	Organisation, Präsentation. W3L Herdecke, latest edition. Litzcke, S.M. Et al.: Studieren lernen, latest edition (available online).
	Wienbracke, Juristische Methodenlehre, Heidelberg, latest edition.
G1-1a	Academic research and study methods
Syllabus	Overview of studies
	Working and learning techniques and the learning process
	 Learning strategies and methods (cognitive strategies, resource strategies and metacognitive strategies)
	 Examinations in theoretical and practical studies (written exam, presentation, seminar paper, report, internship report, completion of any other practical tasks typically performed in the Upper Intermediate Service, paper, oral exam)
G1-1b	Communication
Syllabus	Key skills (presentation technique, rhetoric, teamwork and communication skills)
G1-1c	Preparing academic texts and presentations
Syllabus	
Cynabus	 Word (specifically formatting and document templates, field functions, footnotes, layouts, tables of contents)
	PowerPoint (specifically preparing presentations, slide masters, custom
04.41	animation, embedding graphics) and alternatives
G1-1d	Resolving legal cases in the style of legal opinions
Syllabus	Practical application of acquired legal knowledge
	Resolution of practice legal cases
	Analysis of facts and posing questions
	 Legal opinion style (major premise, constituent elements of offence, minor premise, conclusion)

Module unit of G1	Digital competences and methods
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G1-2
Academic level of the module	Foundation course
Туре	Module unit; quantitative content 80%, English-language content according to the table on page 12 and the appendix to the module catalogue,
Academic workload	90 hours, of which 40.5 contact hours (54x45-minute teaching sessions) and 49.5 hours of independent study
Teaching methods	Classes (sometimes using PCs), study group exercises, independent study
Lecturer responsible for the module	Prof. Dr. Matthias Goeken
Academic objectives Preliminary reading	The students learn methods of business informatics that relate to managing processes, projects, and innovations as well as data analysis. The students learn process-oriented work in organizations and are able to model and evaluate processes according to the globally recognized BPMN 2.0 standard. Additionally, the students learn the basics of project management and can navigate the terminology confidently. The students recognize the importance of "Business Analytics" in organizations and understand the activities and tools (spreadsheets and databases) necessary to derive insights from data sets. They can apply these to smaller data analysis projects and case studies. The students understand the importance of innovation and digital transformation for organizations. They comprehend the basic functions and prerequisites of successful innovation processes. Furthermore, they learn selected methods and techniques for idea generation and evaluation. By applying these to practical case studies, they reflect on their own role options in digital transformation. Leimeister, JM.: Einführung in die Wirtschaftsinformatik. Berlin (latest edition) Ernst, D. et al.: Financial Modeling, Stuttgart, latest edition. Seiter, M.: Business Analytics: Wie Sie Daten für die Steuerung von Unternehmen nutzen. München, latest edition Elektronische Bücher und Skripte des HERDT-Verlags, die im Intranet der BBk verfügbar sind (https://intranet.inet.bundesbank.de/wissen/lernen/elearning/it/excel) Schmelzer, H.J. u.a.: Geschäftsprozessmanagement in der Praxis, latest edition. Deutsche Bundesbank: Projektleitfaden Timinger, H., Modernes Projektmanagement (latest edition) Project Management Institute: A Guide to the Project Management Body of Knowledge, latest edition. Deutsche Bundesbank: Dienstbestimmung (DB) 1-15. Hauschildt et al.: Innovationsmanagement, München, latest edition.
	Hennig, P.: Digitalisierung in der öffentlichen Verwaltung erfolgreich gestalten: Ein Praxisleitfaden zur Zielerreichung, latest edition, Freiburg. Keeley, L et al.: Ten Types of Innovation. The Discipline of Building Breakthroughs. Hoboken/NJ, latest edition.
G1-2a	Introduction to Process and Project Management
Syllabus	 Business processes Process modelling with graphical modelling languages (e.g., EPC) Fundamentals of project management (approaches, terms and definitions, project design, stakeholders, as well as opportunity and risk management, project organization, case studies)
G1-2b	Introduction to Business Bnalytics
Syllabus	 Fundamentals, approaches, and standards of data analysis Excel - basics and advanced techniques (functions and formulas, charts, handling tables and large datasets) Creation of evaluations and analyses (data preparation, analysis, evaluation, visualization) – application and case studies Basic concepts of databases (ER model, relational model, normalization; SQL basics, structure of Access as a relational database)
G1-2c	Introduction to Digitalization and Innovation Management
Syllabus	 Innovation in digital transformation as a management task The innovation process: functions, roles, control Dealing with resistance; innovation culture; promoter concept Application of models, methods, and techniques for idea development and innovation-related teamwork

Module unit of G1	Financial mathematics and statistics: an introduction
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G1-3
Academic level of the	Foundation course
module	
Туре	Module unit; quantitative content 100%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
Academic workload	90 hours, of which 42 contact hours (56x45-minute teaching sessions) and 48 hours of independent study
Teaching methods	Classes, exercises, independent study
Lecturer responsible for the module	Professor Annabelle Kehl-Beckmann
Academic objectives	Students will master the fundamentals of financial mathematics and its application in banking operations. Moreover, they will comprehend the objectives of statistics and typical problems associated with statistics. Students will also master the basic methods of descriptive statistics, the fundamentals of probability theory and combinatorics and the use of one-dimensional distribution models.
Preliminary reading	Fahrmeir, Künstler, Pigeot, Tutz: Statistik: Der Weg zur Datenanalyse, Springer, Berlin Heidelberg New York, latest edition. Tietze, J.: Einführung in die Finanzmathematik, latest edition. Geyer, Hanke, Littich, Nettekoven: Grundlagen der Finanzierung: verstehen – berechnen – entscheiden, 5th edition, Linde Verlag 2015. Bamberg, G. et al.: Statistik, latest edition. Supplementary reading: Heidorn, Th.: Finanzmathematik in der Bankpraxis, latest edition. Bosch, K.: Elementare Einführung in die angewandte Statistik, latest edition. Bourier, G.: Beschreibende Statistik, latest edition.
G1-3a	Financial mathematics
Syllabus	 Calculating interest (including intra-year interest and accrued interest) in a banking context Basics of calculating present values Calculating annuities in a banking context Basics of risk measurement (including value-at-risk in the case of a normal distribution hypothesis)
G1-3b	Statistics I
Syllabus	 Basic concepts of statistics Descriptive statistics (including location parameters and dispersion measures of distributions) [almost all modules] Probability theory and combinatorics, discrete random variables and univariate distribution models (including binomial and Poisson distribution) Continuous random variables and univariate distribution models (including uniform and normal distribution)

Module	Introduction to business administration
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G2
Academic level of the	Foundation course
module	
Туре	Mandatory module; quantitative content around 50%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 16%
ECTS credits	7 ECTS credits
Academic workload	210 hours, of which 105 contact hours (140x45-minute teaching sessions) and 105 hours of independent study
Length of the module	6 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats
Examination date	At the end of the study stage
Form of examination; preparation time (percentage in English)	Written exam covering tasks from module units G2-1 and G2-2 180 minutes
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Study contents	Fundamentals of Business Economics Economics in Core Business Functions Introduction to Double-Entry Bookkeeping and Financial Statements Special Features of Accounting in Credit Institutions and the Deutsche Bundesbank
0 115 11	Introduction to Cost and Performance Accounting
Qualification objectives	The students are able to describe and solve problems of operational resource management using business administration terminology. They have an overview of the operational sub-functions, their interrelationships, and the fundamental decision-making problems, and can apply business administration methods to them. Additionally, the tasks of accounting in general and the tasks of bookkeeping in particular are covered. Furthermore, an initial insight into accounting, especially the financial statements, of industrial companies, credit institutions, and the Deutsche Bundesbank is provided. Finally, the students learn about common cost accounting systems.
Preparation	To prepare for participation in module G2, students are advised to study the recommended preliminary reading texts for module units G2-1 and G2-2.
Prerequisites	None; students are advised to study the preliminary reading texts for module units G2-1 and G2-2.
Applicability of the module	The module counts towards other relevant degree programmes. The knowledge acquired is applicable to roles in all areas of the Bundesbank, BaFin and other central banks on account of its focus on business administration. Furthermore, the knowledge gained is particularly applicable in DGs C, B, K and H.
Connection to other modules	Besides the modules that follow it, this module has a particular thematic connection with G1, G3 and G5.
(Potentially) followed by	A2 Business administration: deepening of knowledge V1 Bank and central bank management V2 Analysis of financial statements and financial instruments V4 Organisation, management and human resources management W2 Case studies on financial supervision

Module unit of G2	Management of operational resources
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G2-1
Academic level of the module	Foundation course
Туре	Module unit; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue,legal content 10%
Academic workload	105 hours, of which 51 contact hours (76x45-minute teaching sessions) and 54 hours of independent study
Teaching methods	Classes, exercises, independent study
Lecturer responsible for the module	Professor Nicole Jung
Academic objectives	Students will be able to describe problems relating to operational resource management using the appropriate terminology and solve such problems. They will gain an overview of operational functions, their interconnections and the underlying issues regarding decision-making and be able to apply business administration methods to them.
Preliminary reading	Wöhe, G. & Döring, U.: Einführung in die allgemeine Betriebswirtschaftslehre, Munich: Vahlen, latest edition. Vahs, D. & Schäfer-Kunz, J.: Einführung in die Betriebswirtschaftslehre, Stuttgart: Schäffer-Poeschel, latest edition. Homburg, C. & Krohmer, H.: Grundlagen des Marketingmanagements, Wiesbaden: Gabler, latest edition. Supplementary reading: Bamberg, G. & Coenenberg, A. G.: Betriebswirtschaftliche Entscheidungslehre, Munich: Vahlen, latest edition. Jung, H.: Allgemeine Betriebswirtschaftslehre, Munich: Oldenbourg, latest edition. Schweitzer, M.: Einleitung: Grundfragen. In: Bea, F. X., Allgemeine Betriebswirtschaftslehre, Volume 1. Stuttgart: Lucius & Lucius, latest edition.
G2-1a	Introduction to business administration
Syllabus	 Introduction to general business administration Operational target systems and strategies Fundamentals of decision-making theory
G2-1b	Business administration in key operational functions
Syllabus	 Decision-making in procurement Decision-making in production Decision-making in marketing

Module unit of G2	Bookkeeping, cost accounting and financial statements		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	G2-2		
Academic level of the module	Foundation course		
Туре	Module unit; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue,legal content 20%		
Academic workload	105 hours, of which 54 contact hours (72x45-minute teaching sessions) and 51 hours of independent study		
Teaching methods	Classes, exercises, independent study		
Lecturer responsible for the module	Professor Anke Lenk		
Academic objectives	This module covers accounting tasks in general and bookkeeping tasks in particular. Students will learn double-entry bookkeeping as well as how to make entries in stock accounts and profit and loss accounts. They will practise and gain a greater understanding of double-entry bookkeeping on the basis of selected transactions by industrial enterprises and credit institutions. Classes will provide an initial insight into the accounting, and in particular the financial statements, of industrial enterprises, credit institutions and the Bundesbank. Students will learn about the commonly used cost accounting systems and will practise and apply their knowledge in a wide range of practical exercises and examples.		
Preliminary reading	Coenenberg et al.: Jahresabschluss und Jahresabschlussanalyse, latest edition. Deutsche Bundesbank: Overview of the Deutsche Bundesbank's accounting policies, latest edition. Schuster, D.: Rechnungswesen und Controlling der Kreditinstitute, latest edition. Weber, J./Weißenberger, B.: Einführung in das Rechnungswesen, latest edition. Wöhe G. et al.: Einführung in die Allgemeine BWL, latest edition. Wüstemann, J.: Buchführung case by case, latest edition.		
G2-2a	Introduction to double-entry bookkeeping and financial statements		
Syllabus	 Introduction to the (legal) basis of bookkeeping and financial statements Inventories and stocktaking Generally accepted accounting principles Fundamentals and techniques of double-entry bookkeeping Booking selected transactions Recognition and measurement of assets 		
G2-2b	Particular features of accounting structures at credit institutions and the Deutsche Bundesbank		
Syllabus	 Introduction to the (legal) basis of bookkeeping and financial statements Inventories and stocktaking Principles of proper accounting Fundamentals and techniques of double-entry bookkeeping Booking selected transactions Recognition and measurement of assets 		
G2-2c	Introduction to cost and performance accounting		
Syllabus	 Fundamentals of cost accounting Cost-type, cost-centre, cost-unit accounting as full-cost accounting Revenue and expenditure accounting 		

Module	Introduction to the banking industry
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G3
Academic level of the module	Foundation course
Туре	Mandatory module; quantitative content around 18%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 20%
ECTS credits	8 ECTS credits
Academic workload	240 hours, of which 106.5 contact hours (142x45-minute teaching sessions) and 133.5 hours of independent study
Length of the module	6 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats; lectures, exercises, case studies
Examination date	At the end of the study stage
Form of examination; preparation time (percentage in English)	Written exam covering tasks from module units G3-1 and G3-2 180 minutes (30)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Qualification objectives	Structure of the Credit System and Fundamentals of Banking Functions of Credit Institutions (CI) in an Economy Lifecycle of CI and Their Business Models Credit Industry in Germany, Europe, and the World Business Administration Transformation Function of CI Customer Relationships of CI; Corporate Governance of CI Regulation and Supervision of CI; Current Challenges (FinTech, Brexit, Climate Risks) Introduction to Central Banking Money and Central Banks: Basic Concepts The Eurosystem Payment Instruments The students understand the fundamentals of the active and passive operations of credit institutions as well as other banking services offered. The module covers the key legal relationships and foundations between customers, credit institutions, and banking supervision. In this context, the students gain an overview of the structure and organization of the banking system as well as the value chain of credit institutions. They also understand the structure and function of the banking sector and deposit insurance in Germany. Additionally, the students learn about the tasks
Preparation	of central banks, as well as the organization, structure, and objectives of the Eurosystem and the ECB, including the main instruments of cash and non-cash payment transactions. To prepare for participation in module G3, students are advised to study the
·	recommended preliminary reading texts for module units G3-1 and G3-2.
Prerequisites	None; students are advised to study the recommended preliminary reading texts for module units G3-1 and G3-2.
Applicability of the module	The module counts towards other relevant degree programmes. Furthermore, the knowledge acquired is applicable to roles in all areas of the Bundesbank, BaFin, other central banks and commercial banks.
Connection to	Besides the modules that follow it, this module has a particular thematic connection
other modules	with G2 and G5.
(Potentially) followed by	A3 Payment transactions A4 Credit and banking supervision A5 Monetary economics V1 Bank and central bank management V5 Banking, securities and insurance supervision W2 Case studies on financial supervision

Module unit of G3	Structure of the banking system and fundamentals of the banking industry
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G3-1
Academic level of the module	Foundation course
Туре	Module unit; quantitative content 15%, English-language content according to the table on page12 and the appendix to the module catalogue,legal content 10%
Academic workload	120 hours, of which 51 contact hours (68x45-minute teaching sessions) and 69 hours of independent study
Teaching methods	Classes, independent study
Lecturer responsible for the module	Professor Markus Rose
Academic objectives	Students will understand the fundamentals of credit institutions' lending and deposit business as well as the other services they offer. The module covers the most important underlying legal relationships and frameworks between customers, credit institutions and banking supervisors. In this context, students will obtain an overview of the set-up and structure of the banking system, the value chains of credit institutions, various business models, account management, deposit business and deposit guarantee schemes, payment transactions, fund and asset investments, lending and cross-border transactions. Moreover, they will gain an overview of the structure and functioning of the banking sector and of deposit guarantee schemes in Germany.
Preliminary reading	Hartmann-Wendels, T. et al.: Bankbetriebslehre, latest edition. Supplementary reading: Büschgen, H. E. et al.: Bankbetriebslehre, latest edition. Cecchetti, S. G. and Schoenholtz, K. L.: Money, Banking and Financial Markets, latest edition. Ettmann, B./Wolff, K./Wurm, G.: Kompaktwissen Bankbetriebslehre, latest edition. Grill, H./Perczynski, H.: Wirtschaftslehre des Kreditwesens, latest edition. Bieg, H./Krämer G./Waschbusch, G./Igl, A.: Bankenaufsicht in Theorie und Praxis, 5th edition. Buchmüller, P./Igl, A./Neus, W.: Einführung in die Bankenregulierung: Darstellung wesentlicher aufsichtsrechtlicher Vorgaben, latest edition.
Syllabus	 Functions of credit institutions in an economy Life cycle of credit institutions and their business models The banking industry in Germany, Europe and the world at large Credit institutions' business administration transformation functions Credit institutions' customer relationships Credit institutions' corporate governance Regulation and supervision of credit institutions Current challenges (fintech firms, Brexit, climate risks)

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Module unit of G3	Introduction to central banking		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	G3-2		
Academic level of the	Foundation course		
module			
Туре	Module unit; quantitative content 20%, English-language content according to the		
176-	table on page12 and the appendix to the module catalogue, legal content 30%		
Academic workload	120 hours, of which 55.5 contact hours (74x45-minute teaching sessions) and 64.5		
7100001111011110010	hours of independent study		
Teaching methods	Classes, seminars, independent study		
Lecturer responsible for	Uwe Schollmeyer		
the module	Owe ocnowneyer		
	Ctudents will learn shout the tasks of central banks as well as the argenization		
Academic objectives	Students will learn about the tasks of central banks as well as the organisation,		
	structure and objectives of the Eurosystem and the ECB. They will be able to		
	explain the money creation of central and commercial banks in the balance sheet		
	context. Students will learn the key instruments involved in cash payments and		
	cashless payments, and will be able to classify and explain basic logistical concepts		
	related to cash. They will acquire detailed knowledge of the Eurosystem and the		
	business activities of the Bundesbank. The main language of instruction and		
	examination of this course is English.		
Preliminary reading	Berndsen, R. J.: Financial Market Infrastructures and Payments, Veghel, 2018.		
	Herger, N.: Wie funktionieren Zentralbanken?, Springer Gabler, latest edition.		
	Gudehus, T.: Logistik 1 – Grundlagen, Verfahren und Strategien, Springer Vieweg,		
	latest edition.		
	Mishkin, F./Matthews, K./Giuliodori, M.: The Economics of Money, Banking &		
	Financial Markets, European Edition, 2013.		
	Verbeck, D.: Einführung in die Bargeldökonomie der Bundesrepublik Deutschland,		
	Stuttgart, 2017.		
	Wienbracke, M.: Grundwissen Europarecht, Munich, latest edition.		
G3-2a	Money and central banks: basic concepts		
Syllabus	Fundamentals of money and central banking		
	Money creation in the modern economy		
	The central bank as a bank		
	The central bank's balance sheet		
	The central bank a balance shock		
G3-2b	The Eurosystem		
Syllabus	·		
Syllabus	Introduction to EU law and governance Figure 2009, the EOOR and the Figure 2004 are		
	- Euro area, the ECB, the ESCB and the Eurosystem		
	The role of national central banks in the Eurosystem		
	Independence and accountability		
	 The Deutsche Bundesbank: History, role, organisation and functions 		
G3-2c	Payment instruments		
Syllabus	Definition of cash and cashless payments		
_	Legal basis of cash and cashless transactions		
	Key concepts of logistics, particularly cash logistics		
	Cash cycle, automation of cash processing		
	Cash cycle, automation of cash processing Cash planning and supply		
	Credit transfers and direct debits, debit and credit cards		
	Payment behaviour in Germany and Europe Business activities of the Daytoche Bundachenk's branches		
	Business activities of the Deutsche Bundesbank's branches		

Module	Introduction to the legal system: Basic Law, Civil Code and Commercial Code
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	G4
Academic level of the module	Foundation course
Туре	Mandatory module; quantitative content 0%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 100%
ECTS credits	5 ECTS credits
Academic workload	150 hours, of which 67.5 contact hours (90x45-minute teaching sessions) and 82.5 hours of independent study
Length of the module	6 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats
Teaching methods	Classes, group work, exercises, independent study
Lecturer responsible for the module	Professor Urs Lendermann
Examination date	At the end of the study stage
Form of examination; preparation time (percentage in English)	Written exam (120 minutes)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at Rektorat Hochschule der Deutschen Bundesbank (hochschule-bundesbank.de)
Frequency	The mandatory module is generally offered twice a year.
Preparation	To prepare for participation in module G4, students are also referred to the recommended preliminary reading list.
Prerequisites	None; students are advised to study the recommended preliminary reading texts.
Applicability of the module	The module counts towards other relevant degree programmes. The acquired legal knowledge and application skills are essential for a role in a government authority. They are particularly applicable in DGs B, Z, R, P, Rv and Ve of the Bundesbank, in most business units of BaFin and in other central banks.
Connection to	Besides the modules that follow it, this module has a particular thematic
other modules	connection with A4 and W4.
(Potentially) followed by	A3 Payment transactions A4 Credit and banking supervision V3 Securities market and capital market law, European governance V4 Organisation, management and human resources management W4 Corporate law, contract practice and contract management
Academic objectives Preliminary reading	Students will understand the fundamentals of the German and European legal systems. They will have knowledge of legal sources and be able to develop criteria to determine whether these pertain to public or private law. They will be able to describe the protective effects of the Basic Law, the national objectives and government bodies anchored therein, as well as their mandate and functioning; they will also be able to distinguish between a state and other types of society. Moreover, they will understand the opportunities for citizens to play a role in various regional or local authorities. In addition, students will understand the fundamentals of the Civil Code, the Commercial Code and company law. They will have the ability to analyse problems relating in particular to contract law and company law, develop solutions to case studies and present these. They will know how to defend their solutions against criticism using legal arguments and be able to develop alternative solutions. Students will be capable of using the available textbooks to acquire knowledge independently. Brox/Walker: Allgemeiner Teil des BGB, latest edition.
	Jellinek, Georg: Allgemeine Staatslehre, 3rd edition, Berlin 1914. Kallwass, W. and. Abels, P.: Privatrecht, Munich, latest edition. Katz, A.: Staatsrecht: Grundkurs im öffentlichen Recht (Jurathek Studium), latest edition.

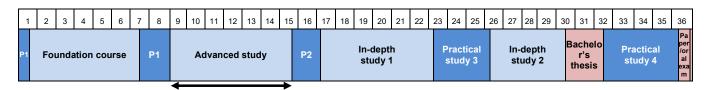
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	Müssig: Wirtschaftsprivatrecht, Heidelberg, latest edition. Wienbracke: Einführung in die Grundrechte, Wiesbaden, latest edition.		
G4a	Fundamentals of political science and German constitutional law		
Syllabus	 Legal sources Concept, features and types of state Fundamental rights and organisation of the state pursuant to the Basic Law 		
G4b	Fundamentals of civil law		
Syllabus	 Introduction to the German legal system Introduction to civil law (contract law, legal obligations and property law) 		
G4c	Fundamentals of commercial and company law		
Syllabus	 Introduction to commercial law (commercial undertakings, Commercial Register) Introduction to company law (definition of company, partnership, corporation and cooperatives) 		

Module	Principles of economics		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	G5		
Academic level of the module	Foundation course		
Туре	Mandatory module; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%		
ECTS credits	5 ECTS credits		
Academic workload	150 hours, of which 66 contact hours (88x45-minute teaching sessions) and 84 hours of independent study		
Length of the module	6 months		
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats		
Teaching methods	Classes, exercises, independent study		
Lecturer responsible for the module	Professor Matthias Goeken		
Examination date	At the end of the study stage		
Form of examination; preparation time (percentage in English)	Written exam (120 minutes) (50)		
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .		
Frequency	The mandatory module is generally offered twice a year.		
Preparation	To prepare for participation in module G5, students are advised to study the recommended preliminary reading texts.		
Prerequisites	None; students are advised to study the recommended preliminary reading texts.		
Applicability of the module	The module counts towards other relevant degree programmes. The knowledge acquired is applicable to roles in all areas of the Bundesbank, BaFin or other central banks on account of its focus on economics. Furthermore, the knowledge gained is particularly applicable in DGs Vo, M, F and P.		
Connection to other modules	Besides the modules that follow it, this module has a particular thematic connection with G2 and G5.		
(Potentially) followed by	A5 Monetary economics; V3 Financial markets and international economics W1 Case studies on monetary policy and financial stability		
Academic objectives	Students will understand the principles and methodologies of economics and will be able to explain and assess the benefits and limitations of models used for economic analysis. They will acquire the tools necessary to analyse and interpret economic trends and specific micro and macroeconomic problems. Instruction and examination in this course are partly in English.		
Preliminary reading	Blanchard et al.: Macroeconomics – A European Perspective, latest edition. Mankiw/Taylor: Economics, latest edition. Mankiw/Taylor: Grundzüge der Volkswirtschaftslehre, latest edition. Further recommended titles will be given during the course.		
G5a	Principles of economics		
Syllabus	 Object and definition of economic principles Basic economic concepts 		
G5b	Microeconomics		
Syllabus	Price and market theoryBudget theory		
G5c	Macroeconomics		
Syllabus	 National accounts Determining general equilibria Government activities and macroeconomic development Business fluctuations Economic growth in the long term 		

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2.2 Advanced study



Module name (5 mandatory modules incl. module units)	ECTS ³ credits	Contact hours (45-minute teaching sessions)	Workload (hours)	Form of examination (percentage in English)
A1: Digital applications and quantitative methods (Mandatory module)	6	110	180	Written exam, 180 minutes
A1-1: Digital applications in central banks		54	90	
A1-2: Financial mathematics and statistics: deepening of knowledge		56	90	
A2: Business administration: deepening of knowledge (Mandatory module)	7	116	210	Written exam, 180 minutes (50)
A2-1: Single-entity and consolidated financial statements, IFRS		70	120	
A2-2: Theory of corporate finance		46	90	
A3: Payment transactions (Mandatory module)	5	80	150	Written exam, 120 minutes
A4: Credit and banking supervision (Mandatory module)	8	180	240	Written exam, 180 minutes
A4-1: Applied management of credit institutions		86	120	
A4-2: Fundamentals of banking and financial services supervision		94	120	
A5: Monetary economics (Mandatory module)	6	114	180	Written exam, 180 minutes (60)
Total	32	600	960	5 module exams

³ Credits under the European system for the transfer and accumulation of academic achievements. According to Section 3(3) of the curriculum, one ECTS credit corresponds to 30 hours' workload.

Module	Digitale Applications und quantitative methods		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	A1		
Academic level of the module	Advanced study		
Туре	Mandatory module; quantitative content around 83%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%		
ECTS credits	6 ECTS credits		
Academic workload	180 hours, of which 82.5 contact hours (110x45-minute teaching sessions) and 97.5 hours of independent study		
Length of the module	6 months		
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats; lectures, exercises, case studies		
Examination date	At the end of the study stage		
Form of examination; preparation time (percentage in English)	Written exam covering tasks from module units A1-1 and A1-2 180 minutes		
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en.		
Frequency	The mandatory module is generally offered twice a year.		
Study contents	Digital Applications and Advanced Tools for Data Analysis Financing and Investment Calculation Statistics II		
Qualification objectives	The students are familiar with the practical application of important standard workplace software and understand the theoretical foundations of process management and IT security management. They possess an in-depth understanding of the integration of applications and processes. Competencies in data analysis are expanded, and a basic understanding of "Advanced Analytics" using artificial intelligence is developed. The students can also evaluate investments and decide on their implementation using investment calculation methods. Additionally, they are capable of evaluating and assessing fixed-income securities under different interest rate structures. The students have advanced knowledge of multivariate descriptive statistics and can analyse relationships using regression analysis, among other methods. They also have advanced knowledge of relevant statistical testing procedures.		
Prerequisites	G1 Methodological foundations Knowledge and skills imparted in G1: fundamental understanding of information systems and their aims and purposes; knowledge of information system units (hardware, software, data, organisation, relevant stakeholders and information management) and their interactions; basic data analysis skills; fundamental understanding of the structure and functioning of operational application systems as well as the integration of applications and processes. Students are advised to study the recommended preliminary reading texts for module units A1-1 and A1-2.		
Preparation	To prepare for participation in module A1, students are advised to study the recommended preliminary reading texts for module units A1-1 and A1-2.		
Applicability of the module	The module counts towards other relevant degree programmes. Modules V6 and W6 build directly on the content in this module; all modules with quantitative and IT-related content indirectly build on module A1. The module unit A1-2 is applicable in many different areas of the Bundesbank, particularly DGs B, S, Rc and M, as well as in BaFin and other central banks.		
Connection to other modules	The module unit A1-2 covers the material content needed for the follow-on modules A2, V1, V2, V6 and W5. G1-3 forms the content basis for A1-2.		
(Potentially) followed by	V2 Analysis of financial statements and financial instruments V3 Financial markets and international economics V5 Banking, securities and insurance supervision W5 Financial econometrics W6 Process and project management		

Module unit of A1	Digital applications in central banking
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	A1-1
Academic level of the	Advanced study
module	Triavarious study
Туре	Module unit; quantitative content 60%, English-language content according to the
1,763	table on page 12 and the appendix to the module catalogue legal content 0%
Academic workload	90 hours, of which 40.5 contact hours (54x45-minute teaching sessions) and 49.5
	hours of independent study
Teaching methods	Classes (sometimes using PCs), exercises, independent study
Lecturer responsible for	Professor Norbert Frick
the module	
Academic objectives	The students deepen their methodological knowledge from their basic studies and learn about applications in central banks that operate in a process-oriented manner. Furthermore, the students can describe the fundamentals of process management, including the associated phases, and classify and evaluate them in an organizational context. The students deepen their knowledge of applications, tools, and methods of data analysis. They learn the first steps in using Python for solving practical, quantitative tasks and recognize the benefits and reasons for the increasing spread of Python. In this context, current issues related to "Artificial Intelligence" are raised and discussed. Additionally, they are familiar with the fundamental problems of IT security
	management.
Preliminary reading	Schmelzer, H.J. u.a.: Geschäftsprozessmanagement in der Praxis, latest edition. Deutsche Bundesbank: Projektleitfaden Laudon, K.C. u.a.: Wirtschaftsinformatik, latest edition. Dörn, S.: Python in abgeschlossenen Lerneinheiten. Berlin, latest edition Matthes E: Python Crashkurs: Eine praktische, projektbasierte Programmiereinführung. Heidelberg, latest edition VanderPlas, J.: Handbuch Data Science mit Python. Heidelberg, latest edition.
A1-1a	Processes and application systems in central banking
Syllabus	 Business Process Management (process identification, design, execution, monitoring), process categorization Central bank-specific processes and application systems Enterprise collaboration systems and support for group work Case studies
A1-1b	Data analysis – methods and applications in central Banking
Syllabus	 Fundamentals of Python Data Types and Structures Data Preparation and Manipulation Simple Analyses with Python Visualization Case Studies Basic Aspects of "Advanced Analytics" and "Artificial Intelligence
A1-1c	IT of Bundesbank – Organization and Security
Syllabus	The IT of the Bundesbank – Organization and Applications Introduction to IT Security Management

Madula unit of Ad	Financial methometics and statistics, demaning of knowledge
Module unit of A1	Financial mathematics and statistics: deepening of knowledge
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	A1-2
Academic level of the	Advanced study
module	
Туре	Module unit; quantitative content 100%, English-language content according to the
	table on page 12 and the appendix to the module catalogue, legal content 0%
ECTS credits	3 ECTS credits
Academic workload	90 hours, of which 42 contact hours (56x45-minute teaching sessions) and 48 hours
	of independent study
Teaching methods	Classes, independent study, group work
Lecturer responsible for	Professor Christopher Priberny
the module	
Academic objectives	Students will be able to use investment analysis methods to assess investments and
	make decisions regarding their implementation. In addition, they will be in a position
	to assess fixed-income securities under different term structures and the associated
	interest rate risk using the duration concept.
	Students will gain in-depth knowledge of multivariate descriptive statistics and will be
	able to analyse relationships using regression analysis, inter alia. Furthermore, they
	will acquire a deeper understanding of relevant statistical testing procedures.
Preliminary reading	Fahrmeir, Künstler, Pigeot, Tutz: Statistik: Der Weg zur Datenanalyse, Springer,
	Berlin Heidelberg New York, latest edition.
	Bosch, K.: Elementare Einführung in die angewandte Statistik, latest edition.
	Supplementary reading:
	Heidorn, T.: Finanzmathematik in der Bankpraxis, latest edition.
	Klenke, A.: Wahrscheinlichkeitstheorie, latest edition.
	Bamberg, G. et al.: Statistik, latest edition.
A4.0-	Franke, J. et al.: Statistics of Financial Markets, latest edition.
A1-2a	Financial mathematics
Syllabus	Investment analysis taking into account capital value, calculating annuities and
	internal interest rate (given a flat term structure)
	Valuation of fixed-income securities, particularly when taking account of term
	structures
	Modelling of interest rate risk, especially duration
A1-2b	Statistics II
Syllabus	Multivariate descriptive statistics (contingency analysis, correlation)
	Univariate regression and OLS estimation
	Fundamentals of multiple regression
	Statistical testing and estimation methods

Module	Business administration: deepening of knowledge
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	A2
Academic level of the	Advanced study
module	
Туре	Mandatory module; quantitative content around 75%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal
	content 25%
ECTS credits	7 ECTS credits
Length of the module	6 months
Academic workload	210 hours, of which 96 contact hours (128x45-minute teaching sessions) and 114 hours of independent study
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats
Examination date	At the end of the study stage
Form of examination; preparation time (percentage in English)	Written exam covering tasks from module units A2-1 and A2-2 180 minutes (50)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en.
Frequency	The mandatory module is generally offered twice a year.
Study contents	Individual Financial Statements according to IFRS Individual Financial Statements for Credit Institutions according to IFRS Consolidated Financial Statements Forensic Accounting Theory of Corporate Finance
Qualification objectives	The students have an overview of the accounting requirements for credit institutions and other business enterprises according to IAS/IFRS for both individual and consolidated financial statements and master the key recognition, measurement, and disclosure requirements of IAS/IFRS. Additionally, they are capable of understanding and applying consolidation measures within the framework of consolidated financial statements. The students also have an overview of a variety of issues that can play a role in the financing and investment policies of companies. They understand the different financing alternatives and can critically assess them.
Preparation	To prepare for participation in module A2, students are advised to study the recommended preliminary reading texts for module units A2-1 and A2-2.
Prerequisites	G1 Methodological foundations G2 Introduction to business administration Students are advised to study the recommended preliminary reading texts for module units A2-1 and A2-2.
Applicability of the module	The module counts towards other relevant degree programmes. The knowledge acquired is applicable to roles in all areas of the Bundesbank, BaFin or other central banks on account of its focus on fundamentals. Furthermore, the knowledge gained is particularly applicable in DGs C, B and M.
Connection to other modules	Besides the preceding modules from the foundation course and those that follow, this module has a particular thematic connection with A1 and A4.
(Potentially) followed by	V1 Bank and central bank management V2 Analysis of financial statements and financial instruments V5 Banking, securities and insurance supervision W2 Case studies on financial supervision

Module unit of A2	Single-entity and consolidated financial statements, IFRS
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	A2-1
Academic level of the	Advanced study
module	Advanced Study
Туре	Module unit; quantitative content 60%, English-language content according to the
Type	table on page 12 and the appendix to the module catalogue, legal content 60%
Academic workload	120 hours, of which 54 contact hours (72x45-minute teaching sessions) and 66
/ todderine workload	hours of independent study
Teaching methods	Classes, independent study
Lecturer responsible for	Professor Anke Lenk
the module .	
Academic objectives	Students will gain an overview of the accounting requirements for credit institutions and other business enterprises in accordance with the German Commercial Code and IAS/IFRS, both for single-entity and consolidated financial statements. They will master the key balance sheet recognition, valuation and disclosure requirements under the German Commercial Code (<i>Handelsgesetzbuch</i> or HGB) and IAS/IFRS, the differences between them, and how to apply them. They will understand how reporting an item in the balance sheet impacts on other parts of the financial statement and will be able to understand and apply the consolidation measures used in group accounting.
Preliminary reading	Bieg, H.: Bankbilanzierung nach HGB und IFRS, latest edition.
-	Coenenberg, A. G.: Jahresabschluss und Jahresabschlussanalyse, latest edition.
	Küting, K./Weber, C.: Der Konzernabschluss, latest edition.
	Pellens et al.: Internationale Rechnungslegung, latest edition.
	Scharpf, P./Schaber, M.: Handbuch Bankbilanz, latest edition.
	Wagenhofer, A.: Internationale Rechnungslegungsstandards, latest edition.
A2-1a	Single-entity financial statements pursuant to IFRS
Syllabus	Objectives and Tasks of Financial Statements according to IFRS
	Institutional and Conceptual Foundations of IFRS
	Units of Financial Statements
	 Realization Principle
	Recognition and Measurement Requirements for Assets and Liabilities under IFRS
A2-1b	Single-entity financial statements of credit institutions' pursuant to IFRS
Syllabus	Recognition and Measurement of Financial Instruments according to IFRS 9
Syllabus	Expected Credit Loss Model
	Hedge Accounting
	Currency Translation
	Selected Disclosure Requirements according to IFRS
A2-1c	Consolidated financial reporting
Syllabus	Introduction to consolidated financial statements
Syllabus	
	 Basis, definition and methods of consolidation pursuant to the German Commercial Code and IAS/IFRS
A2-1d	Forensic Accounting
Syllabus	Fundamentals of Financial Crime in the Context of Accounting
	Methods of Detection and Measures for Preventing Irregularities in Accounting
	Systems
	Case Study
	1 Guos Guay

Module unit of A2	Theory of corporate finance	
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme	
Code	A2-2	
Academic level of the	Advanced study	
module		
Туре	Module unit; quantitative content 90%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%	
Academic workload	90 hours, of which 42 contact hours (56x45-minute teaching sessions) and 48 hours of independent study	
Teaching methods	Classes, independent study, analysing case studies in groups	
Lecturer responsible for the module	Professor Beate Jüttner-Nauroth	
Academic objectives	Students will gain an overview of a wide range of issues of potential relevance to the financing and investment policies of businesses. They will understand the various financing alternatives and be able to critically assess them. They will be able to assess the application conditions and limitations of the models covered (including portfolio efficiency, capital asset pricing and optimal leverage ratio), in order to correctly interpret model results. Students will also be capable of applying their theoretical knowledge of the methods and specialist subject matter to practice-related tasks. The main language of instruction and examination of this course is English.	
Preliminary reading	Benninga, S.: Financial Modeling, latest edition. Brealey, R. A. et al.: Principles of Corporate Finance, latest edition. Supplementary reading: Christensen, P. O. et al.: Economics of Accounting, Volume I: Information in markets, latest edition. Trautmann, S.: Investitionen, latest edition.	
Syllabus	 Financial planning Debt and equity financing, mezzanine capital (possibly periodic management) Valuing bonds and stocks Portfolio diversification CAPM, efficient market Payout policy and capital structure Cost of (equity) capital (incl. WACC) Mergers, corporate control and governance 	

Degree programme Code A3 Academic level of the module Type Mandatory module; quantitative content around 10%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 45% ECTS credits Academic workload Secure of the module Length of the module Teaching and learning formats Teaching and learning formats Teaching methods Lecturer responsible for the module Examination date Examination date Examination date Training Examination; preparation time (percentage in English) Grading Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV 'Examination and drough and the Rector's annual report. This information is available at https://www.hochschule-bundesbank.ed/hochschule-on-grading-are-align-lear-grading-le	Module	Payment transactions
Academic level of the module Type Mandatory module; quantitative content around 10%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 45% ECTS credits Academic workload 5 ECTS credits Academic workload 6 months Teaching and learning formats Teaching methods Classes, group work, independent study Lecturer responsible for the module Examination date At the end of the study stage Written exam 120 minutes Written exam 120 minutes Exams are graded in line with the provisions of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV 'Examination grading') and the curriculum (Section 3). Information on grading as well as on failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank (Article 22 of the GBankDVDV 'Examination grading') and the curriculum (Section 3). Information on grading as well as on failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank (Article 22 of the GBankDVDV 'Examination grading') and the curriculum (Section 3). Information on grading as well as on failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank (Article 22 of the GBankDVDV 'Examination grading') and the curriculum (Section 3). Information on the pela system: Basic Law, Civil Code and Commercial Code Students are also advised to study the recommended preliminary reading texts. Prerequisites G3 Introduction to the beanking industry G4 Introduction to the	Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Type Mandatory module: quantitative content around 10%. English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 45% ECTS credits 5 ECTS credits 150 hours, of which 60 contact hours (80x45-minute teaching sessions) and 90 hours of independent study 1 reaching and learning formats 1 reaching and learning formats 1 reaching methods 1 reaching and learning formats 1 reaching methods 1 reaching and learning formats 1 reaching and learning formats 1 reaching methods 1 reaching methods 2 reaching and learning formats 1 reaching methods 2 reaching methods 2 reaching and learning formats 1 reaching methods 2 reaching methods 3 reaching and learning formats 1 reaching methods 2 reaching methods 3 reaching methods 4 reaching formats 1 reaching methods 2 reaching methods 3 reaching methods 4 reaching formats 1 reaching methods 2 reaching methods 3 reaching methods 4 reaching formats 1 reaching methods 2 reaching methods 3 reaching methods 4 reaching formats 1 reaching methods 2 reaching methods 2 reaching methods 2 reaching methods 3 reaching methods 2 reaching methods 3 reaching methods 4 reaching methods 4 reaching methods 4 reaching methods 2 reaching methods 2 reaching methods 3 reaching 3	Code	A3
Mandatory module: quantitative content around 10%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 45%	Academic level of the	Advanced study
according to the table on page 12 and the appendix to the module catalogue, legal content around 45% ECTS credits 5 ECTS credits 75 hours, of which 60 contact hours (80x45-minute teaching sessions) and 90 hours of independent study Ength of the module Ength of the module learning formats Classes, online classes, hybrid teaching formats Classes, group work, independent study Lecture responsible for the module Examination date Form of examination; preparation time (percentage in English) Grading Casses are graded in line with the provisions of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVD/V Examination grading) and the curriculum (Section 3). Information on grading as well as on failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank dehochschule-en. Frequency The madatory module is generally offered twice a year. Preparation To prepare for participation in module A3, students are advised to study the recommended preliminary reading texts. Applicability of the module Students are also advised to study the recommended preliminary reading texts. Applicability of the module Formation and the study students are advised to study the recommended preliminary reading texts. Applicability of ollowed by V2 Analysis of infancial statements and financial instruments V3 Financial markets and international economics W3 Case studies on payment and financial instruments V3 Financial markets and international economics Students will become familiar with the basic principles of account and portfolio management and will gain an overview of the legal issues relating to bank account information. They will understand the structure of payment systems and securities settlement infrastructures as well as banking secrecy and the disclosure of bank account information. They will understand the structure of payment systems and securities for	module	
Content around 45% Academic workload Length of the module Empty of the module Length of the module Teaching and learning formats Teaching methods Classes, group work, independent study Lecturer responsible for the module Examination date Form of examination; preparation time (percentage in English) Grading Exams are graded in line with the provisions of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3), Information on grading as well as on failure and drop-out rates can be found in the Rector's annual report. This information is available at hips://www.hochschule-bundesbank.de/hochschule-en. Trequency The mandatory module is generally offered twice a year. Preparation To prepare for participation in module A3, students are advised to study the recommended preliminary reading texts. Prerequisites G3 Introduction to the banking industry G4 Introduction to the legal system: Basic Law, Civil Code and Commercial Code Students are also advised to study the recommended preliminary reading texts. Applicability of the module The module counts towards other relevant degree programmes. Module W3 builds directly on the content in this module. Furthermore, the knowledge gained is applicable in the Bundesbank's DGs F, H and M, BaFin's WA Directorates and other central banks. (Potentially) followed by V2 Analysis of financial statements and financial instruments V3 Financial markets and international economics W3 Case studies on payment and financial instruments V3 Financial markets and international economics Students will be capable of applying their theoretical knowledge of the methods and specialist subject matter to practice-related tasks in the field of digital money and explaining the business strategies and roles of central banks and payment service providers to externals. Preliminary reading Preliminary reading Preliminary reading Preliminary rea	Туре	
ECTS credits Academic workload 150 hours, of which 60 contact hours (80x45-minute teaching sessions) and 90 hours of independent study Ength of the module Enothing and learning formats Teaching and learning formats Classes, group work, independent study Lecturer responsible for the module Examination date Form of examination; preparation time (percentage in English) Grading Exam are graded in line with the provisions of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as on fallure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank de/hochschule-en. Frequency The mandatory module is generally offered twice a year. Preparation To prepare for participation in module A3, students are advised to study the recommended preliminary reading texts. Applicability of the module counts towards other relevant degree programmes. Module W3 builds directly on the content in this module. Frequency I he module counts towards other relevant degree programmes. Module W3 builds directly on the content in this module. Frequency I he module counts towards other relevant degree programmes. Module W3 builds directly on the content in this module. Fremodules ounts towards other relevant degree programmes. Module W3 builds directly on the content in this module. Furthermore, the knowledge gained is applicable in the Bundesbank's DGs F, H and M. BaFiri's WA Directorates and other central banks. Connection to other modules Academic objectives Students will become familiar with the basic principles of account and portfolio management and will gain an overview of the legal issues relating to bank accounts as well as banking secrecy and the surfuse as well as the procedures for accepting monetary policy policy as well as the procedures for accepting monetary policy co		
Academic workload		
Length of the module		
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	A3a	
	Syllabus	Processes, participants and structures in cashless payments
		Business strategies and roles of central banks in payments

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	Counterfeits, monitoring cash recycling
	 Foreign payments, reserve assets and gold
A3b	Account and portfolio management, prevention and control of money laundering
	and terrorism financing
Syllabus	Bank account, bank secrecy and bank inquiry
	 Account and portfolio management at the Bundesbank
	 Money Laundering Act (Geldwäschegesetz) including covenants
A3c	Infrastructure of financial markets
Syllabus	Large-value and retail payment systems including instant
	payments
	Liquidity and risk in interbank payment transactions
	Foreign payments including correspondent banking
	 European and international settlement of payment and security settlement
	systems, innovations in the sector of financial infrastructures
	Management of monetary policy collateral in the Eurosystem
	 Supervision of financial market infrastructure and payment systems
A3d	Digital money and programmable payments
Syllabus	Introduction to distributed ledger technology (DLT)
	Central bank digital currency and programmable payments

Module	Credit and banking supervision
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	A4
Academic level of the module	Advanced study
Туре	Mandatory module; quantitative content around 35%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content around 72%
ECTS credits	8 ECTS credits
Academic workload	240 hours, of which 126 contact hours (168x45-minute teaching sessions) and 114 hours of independent study
Length of the module	6 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats; lectures, exercises, case studies
Examination date	At the end of the study stage
Form of examination; preparation time (percentage in English)	Written exam covering tasks from module units A4-1 and A4-2 180 minutes
Grading	Exams are graded in line with the provisions of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3).Information on grading as well as on failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Study contents	Management of Selected Assets and Liabilities Credit Risk Measurement and Transfer Credit Agreements and Collateral Introduction to Financial Services Supervision Ongoing Supervision of Institutions Fundamentals of Administrative Law Corporate Governance of Financial Institutions
Qualification objectives	The students understand the design and application possibilities of traditional financial products in the active and passive operations of banks and are familiar with the most important credit substitutes (including credit lines, leasing, factoring, forfaiting, ABS) and hybrid financing instruments (including subordinated loans, profit participation certificates), including credit risk measurement and the main legal issues of the credit business. The students also know the core objectives and organization of banking supervision in Germany. They have an overview of the regulations on capital positions, the minimum capital requirements for credit and operational risks, and the instruments of the risk-oriented supervisory approach. They are also familiar with generally applicable rules of governmental administrative actions.
Preparation	To prepare for participation in module A4, students are advised to study the recommended preliminary reading texts for module units A4-1 and A4-2.
Prerequisites for participation	G3 Introduction to the banking industry G4 Introduction to the legal system: Basic Law, Civil Code and Commercial Code Students are advised to study the recommended preliminary reading texts for module units A4-1 and A4-2.
Applicability of the module	The module counts towards other relevant degree programmes. The knowledge gained is applicable to all areas of the Bundesbank, BaFin and other central banks. Furthermore, the knowledge gained is particularly applicable in DGs B, F, M, P, S, Vo and Z as well as in the regional offices.
Connection to	Besides the preceding and following modules, this module has a particular thematic
other modules (Potentially) followed by	connection with modules A3 and A5. V1 Bank and central bank management V2 Analysis of financial statements and financial instruments V3-2 International economics and international governance V5 Banking, securities and insurance supervision W2 Case studies on financial supervision W4 Corporate law, contract practice and contract management

Applied management of credit institutions		
rogramme Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
A4-1		
Advanced study		
Module unit; quantitative content 15%, English-language content according to the table on page12 and the appendix to the module catalogue,legal content 50%		
120 hours, of which 55.5 contact hours (74x45-minute teaching sessions) and 64.5 hours of independent study		
Classes, independent study		
Professor Markus Rose		
Students will gain an understanding of the structure and potential applications of traditional financial products in banks' lending and deposit business. They will understand the major credit substitutes (including line of credit, leasing, factoring, forfaiting, ABS) and hybrid financial instruments (covering subordinated loans, participation certificates) and their possible uses at non-bank institutions. The module also includes an introduction to credit risk measurement. Students will acquire an overview of the key legal issues relating to lending business. They will be able to assess the nature and structure of loan collateral (personal and property hedges) as well as their advantages and disadvantages.		
Schulte et al.: Die Praxis des Kreditgeschäfts, latest edition. Henking, C. Bluhm, L. Fahrmeier: Kreditrisikomessung – Statistische Grundlagen, Methoden und Modellierung, latest edition. B. Rudolph, B. Hofmann, A. Schaber, K. Schäfer: Kreditrisikotransfer: Moderne Instrumente und Methoden, latest edition. Bieg, H./Krämer G./Waschbusch, G./Igl, A.: Bankenaufsicht in Theorie und Praxis, 5th edition. Buchmüller, P., /Igl, A./Neus, W.: Einführung in die Bankenregulierung: Darstellung wesentlicher aufsichtsrechtlicher Vorgaben, latest edition. Claussen, C.P., Bank- und Börsenrecht, current edition.		
Supplementary reading: Brealey R.A. et al.: Principles of Corporate Finance, lst. edt.		
Management of selected assets and liabilities		
 Management of assets and liabilities (ALM) Types of lending business Assessing creditworthiness Credit monitoring and auditing Non-performing loans – challenges in Europe Minimum requirements for risk management (MaRisk) Prudential requirements for IT Current issues Classification of institutions pursuant to the Capital Requirements Regulation, the Banking Act and the Payment Services Oversight Act Ongoing supervision Supervision of fintech firms Climate and sustainability risks Credit risk measurement and transfer 		
Introduction to credit risk measurement		
Credit risk transfer products (securitisations, factoring, leasing, etc.)		
Loan agreements and loan collateral		
Legal issues relating to the lending business - Concluding credit agreements - Duty of credit institutions to advise and provide information - Interest claim and other core contractual elements, withdrawal of credit - Consumer loans and other key types of credit Legal aspects of loan collateral - Types and legal differences - Surety and guarantee, joint liability and letter of comfort - Liens, collateral transfer, security assignment		

Module unit of A4	Fundamentals of banking and financial services supervision		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	A4-2		
Academic level of the module	Advanced study		
Туре	Module unit; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 90%		
Academic workload	120 hours, of which 70.5 contact hours (94x45-minute teaching sessions) and 49.5 hours of independent study		
Teaching methods	Classes, independent study, group work		
Lecturer responsible for	Professor Christoph Schmidhammer		
the module Academic objectives	Students will learn about the core objectives and the organisation of banking supervision in Germany. They will understand the division of labour between the supervisory institutions and will be familiar with the concessions and requirements vis-à-vis institutions as part of ongoing supervision as well as with measures taken in special cases. They will have an overview of standards regarding own funds positions, minimum capital requirements in the case of loans and operational risks, and the instruments of the risk-based supervisory approach, in particular the Minimum Requirements for Risk Management of credit institutions. In addition, students will know the generally applicable rules concerning government		
Preliminary reading	administrative actions. Bieg, H./Krämer G./Waschbusch, G./Igl, A.: Bankenaufsicht in Theorie und Praxis, 5th edition. Buchmüller, P., /Igl, A./Neus, W.: Einführung in die Bankenregulierung: Darstellung		
	wesentlicher aufsichtsrechtlicher Vorgaben, latest edition. De Haan, Jakob/Oosterloo, Sander/Schoenmaker, Dirk: European Financial markets and institutions, Cambridge et al., current edition. Burghof, Hans-Peter/Rudolph, Bernd: Bankenaufsicht: Theorie und Praxis der Regulierung, Wiesbaden, latest edition. Unruh, GCh.v. et al.: Grundkurs Öffentl. Recht, latest edition. Grieser, Simon/Heemann, Manfred (eds.), Bankaufsichtsrecht: Entwicklungen und Perspektiven, Frankfurt, latest edition. Grieser, Simon/Heemann, Manfred (eds.), Bankenaufsicht nach der Finanzmarktkrise, Frankfurt, current edition. Hannemann, R. et al., Mindestanforderungen an das Risikomanagement, current edition.		
A4-2a	Introduction to financial services supervision		
Syllabus	 Core objectives and organisation of banking supervision in Germany and Europe BaFin tasks and sharing of tasks with the Bundesbank Banking business and financial services Simple approaches for determining minimum capital requirements for credit, market and operational risk Units of institutions' capital 		
A4-2b	Ongoing supervision of institutions		
Syllabus	 Granting of authorisation for institutions to conduct business operations Ongoing supervision of institutions (monthly returns, financial statements, inspection reports, reporting systems, inspections pursuant to Section 44 of the Banking Act) Measures (including in special cases) and resolution of an institution Banking Act provisions on lending business (definition of credit, group of connected clients, large exposures, loans of €1.5 million or more, loans to governing and related bodies, including the Large Exposures Regulation (<i>Großkredit- und Millionenkreditverordnung</i>)) Overview of the risk-based supervisory approach (risk profile, risk classification, MaRisk provisions, international framework of the SRP) 		
A4-2c	Fundamentals of administrative law		
Syllabus	 Government administrative actions and administrative acts Administrative regulations and measures in banking and financial services supervision Protest procedure, administrative claim 		
A4-2d	Financial institutions' corporate governance		
7.7-2u	i manoiai matitutiona corporate governance		

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Syllabus	Management bodies and key function holders – fit and proper assessment
	 Remuneration regulation
	 Holder control procedures
	Group management structures

Module	Monetary economics		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	A5		
Academic level of the	Advanced study		
module			
Туре	Mandatory module; quantitative content 50%, English-language content according		
	to the table on page 12 and the appendix to the module catalogue, legal content 0%		
ECTS credits	6 ECTS credits		
Academic workload	180 hours, of which 85.5 contact hours (114x45-minute teaching sessions) and 94.5		
1	hours of independent study		
Length of the module	6 months		
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats		
Teaching methods	Classes, group work, independent study		
Lecturer responsible for	Professor Lilli Zimmermann		
the module	1 Tolessor Lini Ziminicimanii		
Examination date	At the end of the study stage		
Form of examination;	Written exam		
preparation time	180 minutes		
(percentage in English)	(60)		
Grading	Exams are graded in line with the provisions of the Regulation on the Preparatory		
	Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank		
	(Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section		
	3). Information on grading as well as on failure and drop-out rates can be found in		
	the Rector's annual report. This information is available at https://www.hochschule-		
Frequency	<u>bundesbank.de/hochschule-en.</u> The mandatory module is generally offered twice a year.		
Preparation	To prepare for participation in module A5, students are advised to study the		
Freparation	recommended preliminary reading texts.		
Prerequisites	G3 Introduction to the banking industry		
. rerequience	G5 Principles of economics		
Applicability of the	The module counts towards other relevant degree programmes. The knowledge		
module	gained is applicable to all areas of the Bundesbank, BaFin and other central banks.		
	Furthermore, the knowledge gained is particularly applicable in DGs B, F, M, P, S,		
	Vo and Z.		
Connection to	Besides the preceding modules from the foundation course, this module has a		
other modules	particular thematic link to A1, A3 and A4.		
(Potentially) followed by	V3 Financial markets and international economics		
	W1 Case studies on monetary policy and financial stability W5 Financial econometrics		
Academic objectives	Students will acquire basic knowledge of monetary theory, monetary policy and		
Academie objectives	financial stability. They will analyse how monetary policy decisions influence		
	economic variables, such as national income, employment and the price level. The		
	instruments used for implementing the monetary policy strategy will be discussed in		
	detail, as will monetary policy transmission. Alongside providing theoretical		
	information, the module focuses on the implementation of monetary policy in the		
	Eurosystem in practice. Furthermore, students will be able to assess the		
	significance of financial stability for overall economic welfare. They will be aware of		
	the fundamental causes of systemic risk and, on that basis, be able to classify the		
	starting points of macroprudential policy. Teaching and examination for this course mainly takes place in English.		
Preliminary reading	Blanchard et al.: Macroeconomics: A European Perspective, latest edition.		
Tremmilary reading	Görgens et al., Europäische Geldpolitik, latest edition		
	Mishkin: The Economics of Money, Banking, and Financial Markets, latest edition.		
A5a	Macroeconomic basics of financial markets and monetary theory		
Syllabus	Introduction to financial markets		
	Inflation: measurement, types and causes		
	The Phillips Curve, the Taylor rule and the natural rate of unemployment		
	Rational expectations and policy implications		
	Rule-based monetary policy and the IS-PC-MR model		
	Transmission mechanisms of monetary policy		
	Monetary policy strategy and tactics		

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A5b	Central banking and the conduct of monetary policy	
Syllabus	 ECB monetary policy framework Statistical data as a tool for empirical monetary policy analysis Monetary policy instruments and implementation Liquidity provision and the collateral framework Introduction to digital central bank money 	
A5c	Introduction to financial stability	
Syllabus	 Financial crises and macroeconomic outcomes The sources of systemic risk Basics of macroprudential policy 	

2.3 In-depth study 1

1 2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 1	7 18 19 20	21 22 23 24 25	26 27 28 29 30 3	31 32 33 34 35 36
1 Fou	ndation course P1 Advanced study P2	In-dept study 1		In-depth study 2	Practical Paper / oral exam
	ules datory and elective modules incl. ule units)	ECTS ⁴ credits	Contact hours (45-minute teaching sessions)	Workload (hours)	Form of examination (percentage in English)
V1:	V1: Bank and central bank management (Mandatory module for Bundesbank students/elective module for BaFin students)		140	240	Written exam, 180 minutes
	V1-1: Bank management and risk management		70	120	
	V1-2: Central bank management and communication		70	120	
V2:	Analysis of financial statements and financial instruments (Mandatory module)	8	140	240	Written exam, 180 minutes (40)
	V2-1: Analysis of financial statements		70	120	
	V2-2: Valuation and risk analysis of financial instruments		70	120	
V3:	Financial markets and international economics (Elective module)	8	140	240	Report (40)
V3-1: Securities and foreign exchange transactions, international financial markets			50	90	
	V3-2: International economics and international governance		90	150	
V4:	Organisation, management and human resources management (Elective module)	8	140	240	Report (40)
	V4-1: Organisation, and human resources		78	150	
	V4-2: Managing people and organisations in changing contexts		62	90	
V5:	Banking, securities and insurance supervision (Elective module for Bundesbank students/mandatory module for BaFin students)	8	140	240	Written exam, 180 minutes (50)
	V5-1: Basel Capital Accord		90	150	
V5-2: Securities and insurance supervision			50	90	
V6:	Digital transformation and advanced analytics (Elective module)	8	140	240	Report (40)
	V6-1: Digital transformation		34	65,5	
	V6-2: Advanced analytics		70	112,5	
	V6-3: Use cases		36	62	4 module
Tota	I: Study comprising 4 out of 6 modules	32	560	960	exams

⁴ Credits under the European Credit Transfer and Accumulation System. According to Section 3(3) of the curriculum, one ECTS credit corresponds to 30 hours' workload.

Module	Bank and central bank management	
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme	
Code	V1	
Academic level of the	In-depth study 1	
module		
Туре	Mandatory module for Bundesbank students; elective module for BaFin students;	
	quantitative content 75%, English-language content 10%, legal content 5%	
ECTS credits	8 ECTS credits	
Academic workload	240 hours, of which 105 contact hours (140x45-minute	
	teaching sessions) and 135 hours of independent study	
Length of the module	6 months	
Teaching and learning	In-person classes, online classes, hybrid teaching formats; lectures, exercises, case	
formats	studies	
Examination date	At the end of the study stage Written exam covering tasks from module units V1-1 and V1-2	
Form of examination; preparation time	180 minutes	
(percentage in English)	100 Illiliates	
Prerequisites		
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory	
	Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank	
	(Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section	
	3). Information on grading as well as on failure and drop-out rates can be found in	
	the Rector's annual report. This information is available at https://www.hochschule-	
	bundesbank.de/hochschule-en.	
Frequency	This mandatory/optional module is generally offered twice a year.	
Study contents	Overall Bank Management and Risk Controlling	
	Bank Simulation Game	
	Internal Central Bank Management Audit and Examination in Central Banks	
	External and Internal Communication of Central Banks	
Qualification objectives	The students are able to understand, calculate, and apply the most important	
	instruments and methods of profitability and risk controlling from a normative and	
	economic perspective of a commercial bank within the framework of a bank	
	simulation game. They have an overview of the design of a process and	
	organizational structure that enables efficient overall bank management and are	
	familiar with the methods of risk-adjusted capital allocation.	
	The students have an overview of the support functions of controlling, auditing, and	
	communication in central banks, including the respective legal foundations. They	
	are able to establish the connection between these support functions and the core business areas and core services of the Bundesbank.	
Preparation	To prepare for participation in module V1, students are advised to study the re-	
1 Toparation	commended preliminary reading texts listed in module units V1-1 and V1-2.	
Prerequisites	G2 Introduction to business administration	
	A2 Business administration: deepening of knowledge	
	A3 Payment transactions	
	A4 Credit and banking supervision	
	Students are also advised to study the recommended preliminary reading texts for	
A 11 1 1111 5 11	module units V1-1 and V1-2.	
Applicability of the	The module counts towards other relevant degree programmes. The knowledge	
module	gained is applicable to all areas of the Bundesbank, BaFin and other central banks. The internal bank management aspect of the module prepares students for work in	
	the area of auditing (ongoing supervision, on-site inspections, internal audit).	
	The knowledge gained is particularly applicable in the Bundesbank's DGs B, C, K,	
	M, RC and RV.	
Connection to	Besides the preceding modules from the foundation course and those that follow,	
other modules	this module has a particular thematic link V5, W2, W5 und W6.	
(Potentially) followed by	W2 Case studies on financial supervision	
	W5 Financial econometrics	
	W6 Process and project management	

Module unit of V1	Bank management and risk management		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	V1-1		
Academic level of the module	In-depth study 1		
Туре	Module unit; quantitative content 100%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%		
ECTS credits	4 ECTS credits		
Academic workload	120 hours, of which 52.5 contact hours (70x45-minute teaching sessions) and 67.5 hours of independent study		
Teaching methods	Classes, case studies, exercises, independent study, group work, role-playing simulation		
Lecturer responsible for the module	Professor Christoph Schmidhammer		
Academic objectives	Students will be able to understand the key instruments and methods used to control profitability and risk from the normative and economic perspectives of a commercial bank, to calculate these and apply them in a bank simulation. They will recognise the importance of an interdisciplinary, interconnected approach for achieving profitable, entrepreneurial results. They will gain an overview of operational and organisational structures which facilitate efficient overall bank management and will be familiar with the methods of risk-adjusted capital allocation. Students will be able to assess interdependencies between the individual risks (interest rate risk, correlation and diversification effects), to estimate the volume and quality of own funds required to cushion the impact of risks (ICAAP) and to evaluate the qualitative processes which reveal the potential financial implications of unfavourable conditions (including stress tests).		
Preliminary reading	Rolfes, B.: Gesamtbanksteuerung, latest edition. Supplementary reading: Schierenbeck, H.: Ertragsorientiertes Bankmanagement, Vol. 1, Vol. 2, Vol. 3. Latest edition in each case. Matten, C.: Managing Bank Capital, latest edition.		
V1-1a	Overall bank management and risk control		
Syllabus	 Market interest rate method (basic concept and practice models) Calculating risk and operating costs ROI analysis and hierarchy of ROI ratios Target variables and competitive strategies of profitability management Risk measurement using internal risk models Risk/opportunity calculation and internal capacity adequacy Quantifying and managing counterparty credit risk Quantifying and managing market risk (interest risk, equity risk) Earnings-based risk capital allocation for integrated risk/reward management Fundamentals of the internal capital adequacy assessment process (ICAAP) 		
V1-1b	Bank simulation game		
Syllabus	Applying selected methods of overall bank management in a close-to-reality simulation game		

Module unit of V1	Central bank management and communication		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	V1-2		
Academic level of the module	In-depth study 1		
Туре	Module unit; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue,legal content 10%		
ECTS credits	4 ECTS credits		
Academic workload	120 hours, of which 52.5 contact hours (70x45-minute teaching sessions) and 67.5 hours of independent study		
Teaching methods	Classes, group work, exercises, independent study, case studies		
Lecturer responsible for the module	Professor Oliver Kruse		
Academic objectives	Students will gain an overview of the following support functions in central banks, including the relevant legal basis: controlling, auditing and communication. They will be able to describe and assess the key controlling instruments at the Bundesbank and the features of the Bundesbank's internal control system (ICS). They will also be familiar with the guiding principles behind the external and internal communication policies of the ESCB and the Bundesbank, and will be able to apply these in current communication projects. Moreover, students will be able to establish links between these support functions and the Bundesbank's core business areas.		
Preliminary reading	Buchholz, U./Knorre, S.: Grundlagen der internen Unternehmenskommunikation, Berlin, latest edition. Ewert, R./Wagenhofer, A.: Interne Unternehmensrechnung, Berlin, latest edition. Freidank/Peemöller: Kompendium der Internen Revision: Internal Auditing in Wissenschaft und Praxis, Berlin, latest edition. Herbst, Dieter Georg: Rede mit mir: Warum interne Kommunikation für Mitarbeitende so wichtig ist und wie sie funktionieren könnte, Berlin, latest edition. Peemöller/Kregel: Grundlagen der Internen Revision – Standards, Aufbau und Führung, Berlin, latest edition. Rolfes, B.: Gesamtbanksteuerung, latest edition. Weber, J./Schäffer, U.: Einführung in das Controlling, Stuttgart, latest edition. Weber, J./Weißenberger, B.; Einführung in das Rechnungswesen, Stuttgart, latest edition.		
V1-2a	Internal central bank management		
Syllabus	 General introduction to controlling Definition of full and partial cost systems, in particular presentation of selected instruments Tasks and objectives of controlling at central banks Key controlling instruments at central banks Operational and strategic controlling at the Bundesbank Staff controlling (operational statistics and standard procedures) Controlling in the Eurosystem Risk management and business continuity planning 		
V1-2b	Audits and inspections at central banks		
Syllabus	 The internal management and control system as a basic operational function Requirements for internal audits, methods and instruments Structure of internal audits at the Bundesbank Cooperation within the ESCB, with the Federal Court of Auditors and external auditors 		
V1-2c	External and internal communication at central banks		
Syllabus	 Strategic marketing communication for (financial) services Guiding principles of communication at central banks: transparency and accountability External communication strategies and projects of the ESCB and the Bundesbank Internal communication policy of the Bundesbank 		

Module	Analysis of financial statements and financial instruments	
Degree programme		
Code	V2	
Academic level of the	In-depth study 1	
module		
Туре	Mandatory module; quantitative content 90%, English-language content according to	
	the table on page 12 and the appendix to the module catalogue, legal content 25%	
ECTS credits	8 ECTS credits	
Academic workload	240 hours, of which 105 contact hours (140x45-minute	
	teaching sessions) and 135 hours of independent study	
Length of the module	6 months	
Teaching and learning	In-person classes, online classes, hybrid teaching formats	
formats		
Examination date	At the end of the study stage	
Form of examination;	Written exam covering tasks from module units V2-1 and V2-2	
preparation time	180 minutes	
(percentage in English)	(40)	
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training	
	Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22	
	of the GBankDVDV "Examination grading") and the curriculum (Section 3).	
	Information on grading as well as on failure and drop-out rates can be found in the	
	Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .	
Frequency		
Study contents	The mandatory module is generally offered twice a year. Fundamentals of Financial Statement Analysis	
Study Contents	Specifics of Financial Statement Analysis for Credit Institutions and Data Analysis	
	Analysis of the Financial Statements of the Deutsche Bundesbank and the Financial	
	Reports of the European Central Bank	
	Valuation and Risk Analysis of Derivative Financial Instruments	
Qualification objectives	The students are able to assess the asset, financial, and earnings situation of	
addiniodilori objectives	companies and credit institutions based on financial statements and demonstrate	
	connections to banking supervision. This includes the application in and concerns of	
	central banks.	
	The students have an in-depth understanding of financial instruments and financial	
	derivatives significant for the credit industry, including their design and valuation.	
	They have an overview of typical applications of these financial instruments	
	(hedging, arbitrage, speculation) and how payment profiles can be secured through	
	a combination of financial instruments.	
Preparation	To prepare for participation in module V2, students are advised to study the	
	recommended preliminary reading texts listed in module units V2-1 and V2-2.	
Prerequisites for	A1 Quantitative methods	
participation	A2 Business administration: deepening of knowledge	
	Students are also advised to study the recommended preliminary reading texts for	
Applicability of the	module units V2-1 and V2-2.	
Applicability of the The module counts towards other relevant degree programmes.		
module	The knowledge acquired is applicable to roles in all areas of the Bundesbank, BaFin	
	or other central banks on account of its focus on fundamentals. Furthermore, the	
	knowledge gained is particularly applicable in DGs C, B and M as well as in the regional offices.	
Connection to	Besides the preceding modules from the foundation course and those that follow,	
other modules	this module has a particular thematic link to V1, V3, V5, W2 and W5.	
(Potentially) followed by	W1 Case studies on monetary policy and financial stability	
(1 Steritially) followed by	W1 Case studies on financial supervision	
	W3 Case studies on payment transactions and financial market infrastructure	
	W5 Financial econometrics	
	Tro : Manista Goothermonico	

Module unit of V2	Analysis of financial statements		
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme		
Code	V2-1		
Academic level of the			
module	In-depth study 1		
Туре	Module unit; quantitative content 80%, English-language content according to the		
',,,,,	table on page 12 and the appendix to the module catalogue,legal content 50%		
Academic workload	120 hours, of which 52.5 contact hours (70x45-minute teaching sessions) and 67.5		
	hours of independent study		
Teaching methods	Classes, independent study, analysing case studies in groups		
Lecturer responsible for			
the module	Professor Andreas Kremer		
Academic objectives	Students will be able to assess the financial position and financial performance of		
,	enterprises and credit institutions on the basis of financial statements and highlight		
	links to banking supervisors. They will become familiar with the Deutsche		
	Bundesbank's credit assessment procedure for enterprises and will be able to		
	explain and interpret the Eurosystem's weekly report and the financial statements of		
	the Bundesbank and the European Central Bank.		
Preliminary reading	Baetge et al.: Bilanzanalyse, latest edition.		
	Beck'sches IFRS-Handbuch, latest edition.		
	Bieg: Bankbilanzierung nach HGB und IFRS, latest edition.		
	Coenenberg et al.: Jahresabschluss und Jahresabschlussanalyse, latest edition.		
	Küting et al.: Die Bilanzanalyse, latest edition.		
	Kremnow et al. (eds.): Rechnungslegung der Kreditinstitute, latest edition.		
	Padberg: Bankbilanzanalyse, latest edition.		
	Supplementary reading:		
	Penman: Financial Statement Analysis and Security Valuation, latest edition.		
	Ryan: Financial Instruments and Institutions, latest edition.		
V2-1a	Introduction to financial statement analysis		
Syllabus	 Information needs of readers of the financial statements 		
	Measures taken to prepare the financial statements		
	Analysis of the financial position and financial performance		
	 Analysis of key figures 		
	Strategic perspective		
	Credit assessment of business enterprises by the Bundesbank		
V2-1b	Special features of the analysis of credit institutions' financial statements, including		
	prudential aspects		
Syllabus	Consideration of accounting policy instruments in the bank balance sheet and		
*	special features of the structure of the bank balance sheet		
	Analysis of the result and its units		
	Analysis of own capital		
	Consideration of supervisory reference variables		
	Evaluation of credit institutions' financial statements as part of banking		
	supervision		
V2-1c	Analysis of the financial statements of the Bundesbank and the European Central		
· = · · •	Bank		
Syllabus	Weekly financial statement of the Eurosystem:		
- J	Legal basis, layout and valuation rules		
	Purpose and informative value: the weekly financial statement as a reflection of		
	the functions of a central bank		
	Bundesbank financial statement and ECB balance sheet:		
	 Preparation guidelines 		
	Valuation rules and accounting policies		
	Profit and loss account		

Module unit of V2	Valuation and risk analysis of financial instruments
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V2-2
Academic level of the module	In-depth study 1
Туре	Module unit; quantitative content 100%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
Academic workload	120 hours, of which 52.5 contact hours (70x45-minute teaching sessions) and 67.5 hours of independent study
Teaching methods	Classes, independent study, analysing case studies in groups
Lecturer responsible for the module	Professor Beate Jüttner-Nauroth
Academic objectives	Students will gain an in-depth understanding of the financial instruments and derivatives relevant to the banking industry. Students will be familiar in particular with the structure and valuation of such financial instruments using quantitative procedures, and the associated payment, profit and loss profiles. They will have an overview of typical uses of these financial instruments (hedging, arbitrage, speculation) and how payment profiles can be hedged using a combination of financial instruments. In addition, students will be able to apply commonly used fair valuation formulas to financial derivatives.
Preliminary reading	Hull, J.C.: Options, Futures, and Other Financial Derivatives, latest edition. Supplementary reading: Benninga, S.: Financial Modeling, latest edition. Neftci, S.: An Introduction to the Mathematics of Financial Derivatives, latest edition. Wiedemann, A.: Financial engineering, latest edition.
Syllabus	 Introduction to derivatives and futures markets Profit and loss profiles of derivative financial instruments Introduction to financial engineering (incl. "stripping") Valuation of forwards and futures Valuation of swaps Valuation of options (including sensitivities) Valuation of interest rate and credit derivatives Significance of financial derivatives in the context of the 2008-09 financial crisis Valuation of option-based interest rate derivatives Risk management using derivative financial instruments

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Module	Financial markets and international economics
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V3
Academic level of the	In-depth study 1
module	in-depth study i
Туре	Elective module; quantitative content around 40%, English-language content
1,750	according to the table on page 12 and the appendix to the module catalogue, legal
	content 25%
ECTS credits	8 ECTS credits
Academic workload	240 hours, of which 105 contact hours (140x45-minute
,	teaching sessions) and 135 hours of independent study
Length of the module	6 months
Teaching and learning	In-person classes, online classes, hybrid teaching formats
formats	, ,
Examination date	During the study stage
Form of examination	Report
(percentage in English)	(40)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training
_	Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22
	of the GBankDVDV "Examination grading") and the curriculum (Section 3).
	Information on grading as well as on failure and drop-out rates can be found in the
	Rector's annual report.
	This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Study contents	Securities and Capital Market Law
	Securities Transactions and International Financial Markets
	Foreign Exchange Market, Foreign Exchange Market Interventions, and Currency
	Reserves
	International Trade Theory and Policy; Exchange Rates, Open-Economy Macroeconomics, and International Macroeconomic Policy
	International and European Governance
	International Statistical Concepts
Qualification objectives	The students have an overview of the framework conditions of national and
audiniounion objectivos	international financial markets. They can distinguish between different types of
	securities, analyse their risks, and handle the most important market information
	systems. The students are familiar with the securities and foreign exchange
	transactions of the Bundesbank, including the management of currency reserves and
	the civil servant pension fund, and can apply the relevant legal regulations (securities
	trading, investor protection). The students also understand the reasons for the
	emergence of foreign trade, can assess the consequences of foreign trade
	interdependence for the domestic economy and the global economy, and can
	evaluate trade policy measures. In doing so, the students acquire in-depth
	knowledge of the institutional order of the European Union and the integration of the
Dranavation	Federal Republic of Germany into the European state union.
Preparation	To prepare for participation in module V3, students are advised to study the recommended preliminary reading texts listed in module units V3-1 and V3-2.
Droroguioitos for	A1 Quantitative methods
Prerequisites for participation	A3 Payment transactions
participation	A4 Credit and banking supervision
	A5 Monetary economics
	Students are also advised to study the recommended preliminary reading texts for
	module units V3-1 and V3-2.
Applicability of the	The module counts towards other relevant degree programmes.
module	The knowledge gained is essential for staff employed at a central bank belonging to
	the European System of Central banks and is applicable in the Bundesbank's DGs
	B, F, M, R, S, Vo and Z, in BaFin and other central banks.
Connection to	In addition to the previous modules and the (potential) modules that follow, this
other modules	module has a particular link to V2 and V5.
(Potentially) followed by	W1 Case studies on monetary policy and financial stability
	W3 Case studies on payment and financial market infrastructure
	W4 Corporate law, contract practice and contract management
	W5 Financial econometrics

Module unit of V3	Securities and foreign exchange transactions, international financial markets
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V3-1
Academic level of the module	In-depth study 1
Туре	Module unit; quantitative content 30%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 60%
Academic workload	90 hours, of which 37.5 contact hours (50x45-minute teaching sessions) and 52.5 hours of independent study
Teaching methods	Classes, independent study, group work
Lecturer responsible for the module	Professor Oliver Kruse
Academic objectives	Students will gain an overview of the general conditions prevailing in the national and international financial markets. They will be able to distinguish the various types of securities, analyse their risks and use the key market information systems. They will have an overview of the forms and procedures for national and international security issuances as well the settlement, safe custody and administration of securities. They will also understand common investment strategies of both credit institutions and customers and have an overview of the taxation of capital gains. Students will be familiar with the Bundesbank's securities and foreign exchange transactions, including the management of reserve assets and civil servant pension funds, and will be able to apply the relevant legal provisions (securities trading, investor protection).
Preliminary reading	Steiner, M. & Bruns, C.: Wertpapiermanagement, latest edition. Hartmann-Wendels, T. et al.: Bankbetriebslehre, latest edition. Langenbucher, Bliesener, Spindler, Bankrechts-Kommentar, Munich, latest edition. Supplementary reading: Buch-Heeb, P.: Kapitalmarktrecht, latest edition. Spremann, K. et al.: Zinsen, Anleihen, Kredite, latest edition. Hull, J.C.: Risk Management and Financial Institutions, latest edition.
V3-1a	Securities and capital market law
Syllabus	 Securities: types, features and transfer Securities transactions: exchange trading and over-the-counter (OTC) trading; investment advice Capital markets law: stock exchange; investor protection Underwriting business and syndicated lending
V3-1b	Securities transactions and international financial markets
Syllabus	 Trading in conventional, special and derivative securities General and product-specific investment risks; investment strategies International financial markets, types/forms of trading, information systems Issuance procedures; national and international settlement of securities Taxation of capital gains National and international clearing and settlement systems Capital market statistics
V3-1c	Foreign exchange market, foreign exchange market interventions and reserve assets
Syllabus	 Foreign exchange transactions from the perspective of commercial banks and the Bundesbank Organisation and settlement of foreign exchange transactions at the Bundesbank Management of foreign reserves (national reserves and ECB reserves) Setting euro reference exchange rates Reporting on the foreign exchange market and exchange rate and gold price statistics

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Module unit of V3	International economics and international governance
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V3-2
Academic level of the	In-depth study 1
module	
Туре	Module unit; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue,legal content 30%
Academic workload	150 hours, of which 67.5 contact hours (90x45-minute teaching sessions) and 82.5 hours of independent study
Teaching methods	Classes, independent study, group work
Lecturer responsible for	Professor Tobias Körner
the module	
Academic objectives	Students will gain an overview of the reasons for the emergence of foreign trade, be able to gauge the implications of foreign trade ties for the domestic and global economy, and learn how to evaluate trade policy measures. They will be able to establish connections between real and monetary foreign trade relations. They will become familiar with the determinants of exchange rates and be able to classify and analyse monetary systems based on their structural features. Students will acquire a deeper understanding of the institutional framework of the European Union and the role Germany plays within it. They will gain an overview of the basic concepts of external sector statistics and learn about the Bundesbank's tasks in this context. The main language of instruction and examination of this course is English.
Preliminary reading	Herdegen, Europarecht, latest edition. Chalmers et al.: European Union Law, latest edition. Krugman, P.R. et al.: International Economics, latest edition. Mishkin, F. S.: The Economics of Money, Banking, and Financial Markets, latest edition.
V3-2a	International trade theory and policy
Syllabus	 Empirical characterisation of international trade patterns Theoretical foundations of specialisation and the gains from trade Economic analysis of international trade policy Political economy of trade policy
V3-2b	Exchange rates, open-economy macroeconomics and international macroeconomic policy
Syllabus	 National income accounting and the balance of payments Exchange rates and the foreign exchange market Money, interest rates and exchange rates Exchange rates, price levels and output Fixed exchange rates and foreign exchange intervention
V3-2c	International and European governance
Syllabus	EU law and governance The role of the ECB in European economic policies
V3-2d	International statistical concepts
Syllabus	 Balance of payments and international investment position Cooperation on statistics in the ESCB Role and tasks of the Bundesbank

Module	Organisation, management and human resources management
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V4
Academic level of the	In-depth study 1
module	
Туре	Elective module; quantitative content around 5%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 10%
ECTS credits	8 ECTS credits
Academic workload	240 hours, of which 105 contact hours (140x45-minute teaching sessions) and 135 hours of independent study
Length of the module	6 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats
Examination date	During the study stage
Form of examination (percentage in English)	Report (40)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Study contents	Organizational Behavior and the Design, Management, and Development of Organizations Human Resource Management Fundamentals of Labor Law and Public Service Law Selected Competence and Action Fields Current Practice Workshops, Guest Lectures, and Case Studies
Qualification objectives	The students can classify and analyze formal and informal organizational structures and processes of companies and develop proposals for their goal-oriented design. They have an overview of the different tools and challenges of contemporary human resource management and are able to establish connections to collective and individual labor law as well as public service law (including works constitution and staff representation law). The students also understand the importance of organizational change, the associated challenges, and possible solutions. In particular, they are aware of the role of communication in the context of change management and are familiar with typical situations of intercultural communication behavior.
Preparation	To prepare for participation in module W2, students are advised to study the recommended preliminary reading texts listed in module units V4-1 and V4-2.
Prerequisites	G2 Introduction to business administration Students are also advised to study the recommended preliminary reading texts for module units V4-1 and V4-2.
Applicability of the module	The module counts towards other relevant degree programmes. The essential nature of its content and its focus on understanding organisations and interactions within organisations make this module useful for activities – especially management activities – in all areas of the Bundesbank, BaFin and other central banks. In addition, this knowledge is especially useful for activities in the DGs P, K and C as well as in the relevant sections of the regional offices.
Connection to other modules	Besides the preceding modules, this module is most closely related to modules V6, V1-2c and W6.
(Potentially) followed by	W6

Module unit of V4	Introduction to organisation, human resources and management
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V4-1
Academic level of the	
module	In-depth study 1
Туре	Module unit; quantitative content 10%, English-language content according to the
1,450	table on page 12 and the appendix to the module catalogue,legal content 25%
Academic workload	150 hours, of which 58.5 contact hours (78x45-minute teaching sessions) and 91.5
/ toddomio workload	hours of independent study
Teaching methods	Classes, group work, independent study
Lecturer responsible for	Professor Nicole Jung
the module	The state of the s
Academic objectives	Students will be able to classify and analyse formal and informal organisational structures and processes of enterprises and develop proposals with respect to shaping these in a targeted manner. They will understand the significance of the persons involved in guaranteeing the survival and success of an organisation and its structures and will know how to motivate and manage individuals and groups. Moreover, they will gain an overview of the various instruments and challenges of modern human resources management and will be able to understand how this ties in with collective and individual labour law as well as public sector law (including work constitution and staff representation law). In addition, students will learn what their rights and duties are as civil servants.
Preliminary reading	Bröckermann, R.: Personalwirtschaft: Lehr- und Übungsbuch für Human Resource Management, latest edition. Jung, H.: Personalwirtschaft, latest edition. Kieser, A. & Walgenbach, P.: Organisation, latest edition. Greenberg, J.: Managing Behavior in Organizations, latest edition. Meyer, E. et al.: Contemporary Management (European Edition), latest edition. Schreyögg, G.: Organisation: Grundlagen moderner Organisationsgestaltung, latest edition. Wichmann, M. & Langer, KU.: Öffentliches Dienstrecht, latest edition. Wörlen, Kokemoor, Arbeitsrecht, Munich, latest edition. Supplementary reading: Brox, H. et al.: Arbeitsrecht, latest edition. Vahs, D.: Organisation. Ein Lehr- und Managementbuch, latest edition.
V4-1a	Organisational behaviour and the design, management and development of organisations
Syllabus	 Basic terminology Lines of development in organisation theory Formal organisational structures (specialisation, configuration) Informal organisation (corporate culture, (micro-) political processes) Integration of the individual and the organisation (individual/group behaviour); behaviour management (leadership) Current trends in organisational structures
V4-1b	Human resources management
Syllabus	 Human resources and labour: practice and theory Staff requirement planning Staff recruitment Staff deployment and management (appraisals, remuneration) Staff development New challenges in HR management
V4-1c	Fundamentals of labour law and of public sector law
Syllabus	 Labour law: introduction, individual labour law, collective labour law, work constitution law Public sector law: staff representation law, introduction to civil service law, disciplinary law, equal opportunities law and collective bargaining law

Module unit of V4	Managing people and organisations in changing contexts
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V4-2
Academic level of the	
module	In-depth study 1
Туре	Module unit; quantitative content 0%, English-language content according to the table
31	on page 12 and the appendix to the module catalogue, legal content 10%
Academic workload	90 hours, of which 46.5 contact hours (62x45-minute teaching sessions) and 43.5
	hours of independent study
Teaching methods	Classes, group work, independent study
Lecturer responsible for	Professor Nicole Jung
the module	
Academic objectives	Students will learn about the importance of change within organisations as well as the
	associated challenges and possible solutions. In particular, they will understand the role of communication in the context of change management and will be familiar with typical situations relating to differences in intercultural communication, taking into account financial and business ethics aspects. In addition, they will master the
	common intercultural communication tools used in international working groups.
Preliminary reading	Broszinsky-Schwabe, E. Interkulturelle Kommunikation: Missverständnisse und
	Verständigung, latest edition, Wiesbaden: Springer VS. Doppler, K. & Lauterburg, Ch.: Change Management: den Unternehmenswandel
	gestalten, latest edition, Frankfurt a. M.: Campus.
	Genkova, P. Interkulturelle Wirtschaftspsychologie, latest edition, Berlin: Springer.
	Hayes, J. The theory and practice of change management, latest edition, London: Palgrave.
	Heringer, H. J. Interkulturelle Kommunikation, latest edition, Tübingen: A. Francke.
	Hiatt, J. M. & Creasey, T. J. Change management: the people side of change, latest edition, Loveland: Prosci Research.
	Hodges, J. Managing and leading people through organizational change: The theory and practice of sustaining change through people, latest edition, London [inter alia]:
	KoganPage Hofstede, G., Hofstede G. J. & Minkov, M. (2010): Cultures and organizations: software of the mind, 3rd edition. New York: McGraw-Hill.
	Holliday, A., Kullman, J. & Hyde, M. Intercultural Communication: An advanced resource book for students, latest edition, London, New York: Routledge.
	Thomas, A. Interkulturelle Psychologie: Verstehen und Handeln in internationalen Kontexten, latest edition, Göttingen: Hogrefe.
	Palmer, I., Dunford, R. & Akin, G. Managing organizational change: a multiple
	perspectives approach, latest edition, Boston: McGraw-Hill.
	Kotter, J. P. (2011): Leading Change: Wie Sie Ihr Unternehmen in acht Schritten
	erfolgreich verändern. Munich: Vahlen.
	Lüsebrink, HJ Interkulturelle Kommunikation: Interaktion, Fremdwahrnehmung,
	Kulturtransfer, latest edition, Stuttgart: J. B. Metzler.
	Drexler, Barbara: The Clash of Monetary Civilizations: Central Bank Communication
\// 20	in Theory and Practice, latest edition.
V4-2a Syllabus	Selected areas of competence and activity - Change management
Cynabus	Change managementInterculturality
	Communication
	Business ethics
\// 2h	
V4-2b	Current practical workshops, guest lectures and case studies
Syllabus	 Consolidation and practical application of the content from V4-1 and V4-2a on current issues and projects at the Bundesbank, BaFin and other organisations in
	lectures, discussions, workshops, projects, interactive tasks, etc.

Module	Banking, securities and insurance supervision
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V5
Academic level of the	In-depth study 1
module	
Туре	Elective module for Bundesbank students/mandatory module for BaFin students;
	quantitative content 50%, English-language content according to the table on page
	12 and the appendix to the module catalogue, legal content 90%
ECTS credits	8 ECTS credits
Academic workload	240 hours, of which 105 contact hours (140x45-minute
	teaching sessions) and 135 hours of independent study
Length of the module	6 months
Teaching and learning	In-person classes, online classes, hybrid teaching formats
formats	
Examination date	At the end of the study stage
Form of examination;	Written exam covering tasks from module units V5-1 and V5-2
preparation time	180 minutes (50)
(percentage in English)	
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22
	of the GBankDVDV "Examination grading") and the curriculum (Section 3).
	Information on grading as well as failure and drop-out rates can be found in the
	Rector's annual report. This information is available at https://www.hochschule-
	bundesbank.de/hochschule-en.
Frequency	The mandatory module is generally offered twice a year.
Study contents	Basel III – Pillar 1
	Basel III – Pillars 2 and 3 (including Liquidity Supervision)
	Current Developments in European Supervisory Law
	Securities Supervision
	Insurance Industry: Organization, Business Areas, and Insurance Contracts
	Insurance Supervision
Qualification objectives	The students know the rules of risk-oriented banking supervision under the Basel
	framework, including the supervision of liquidity risks, and can apply them. They
	recognize that supervision is not only based on quantitative indicators but also on a
	broader assessment of the bank's risk management system, taking into account the
	overall circumstances. They are also familiar with the tasks of international standard
	setters and European supervisory bodies. The students know the legal supervisory standards for the organized capital market
	and for publicly traded companies, as well as the interconnections with other areas
	of financial market supervision. Furthermore, the students have an overview of the
	economic and legal framework of the insurance industry, its risk profile, and the
	structures of insurance supervision.
Preparation	To prepare for participation in module V5, students are advised to study the
•	recommended preliminary reading texts listed in module units V5-1 and V5-2.
Prerequisites	A1 Quantitative methods
	A2 Business administration: deepening of knowledge
	A4 Credit and banking supervision
	Students are also advised to study the recommended preliminary reading texts for
	module units V5-1 and V5-2.
Applicability of the	The module counts towards other relevant degree programmes.
module	Furthermore, the knowledge gained is helpful for activities in the Bundesbank's
	Directorates General Banking and Financial Supervision, Statistics, and Markets, as
	well as at BaFin and other central banks.
	This module provides a holistic overview of banking and financial (services)
Connection to	supervision and in Germany and Europe. Recides the preceding modules, this module is most closely related to modules W2
other modules	Besides the preceding modules, this module is most closely related to modules W2 and W5.
(Potentially) followed by	W1 Case studies on monetary policy and financial stability
(Folentially) followed by	W1 Case studies on monetary policy and financial stability W2 Case studies on financial supervision
	W2 Case studies on infancial supervision W5 Financial econometrics
	TVO I individu decircimento

Module unit of V5	Basel Capital Accord
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V5-1
Academic level of the module	In-depth study 1
Туре	Module unit; quantitative content 80%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 90%
Academic workload	150 hours, of which 67.5 contact hours (90x45-minute teaching sessions) and 82.5 hours of independent study
Teaching methods	Classes, case studies, exercises, independent study, group work
Lecturer responsible for the module	Professor Christoph Schmidhammer
Academic objectives	Students will gain knowledge of the regulations of risk-based banking supervision under the Basel framework, including the monitoring of liquidity risks, and will be able to apply them. This includes the minimum capital requirements for credit, operational and market risks under Pillar 1, the implementation of the supervisory review process (SRP) described in Pillar 2 in the Minimum Requirements for Risk Management (MaRisk), the disclosure requirements under Pillar 3, and liquidity supervision pursuant to the Delegated Regulation and the CRR. In particular, students will be able to understand how minimum capital requirements are calculated for banks. They will be aware that supervision is based not only on quantitative indicators, but also on a broader assessment of banks' risk management systems, taking into account the overall circumstances. They will also become familiar with the tasks of the international standard-setting bodies and European supervisory authorities.
Preliminary reading	Bieg, H./Krämer G./Waschbusch, G./Igl, A.: Bankenaufsicht in Theorie und Praxis, 5th edition. Buchmüller, P./Igl, A./Neus, W.: Einführung in die Bankenregulierung: Darstellung wesentlicher aufsichtsrechtlicher Vorgaben, latest edition. Cramme, T. et al. (eds.): Handbuch Solvabilitätsverordnung. Eigenkapitalunterlegung von Markt-, Kredit- und Operationellem Risiko, Stuttgart, latest edition. Supplementary reading: Klauck, Kai-Oliver/Stegmann, Claus: Basel III, Stuttgart, latest edition. Hartley, T.C.: The Foundations of European Community Law, latest edition. Zeranski, S. (ed.): Ertragsorientiertes Liquiditätsrisikomanagement, 2nd edition, Heidelberg, latest edition. Bartetzky et al. (eds.): Handbuch Liquiditätsrisiko, Stuttgart, latest edition. In addition, preliminary reading for module unit A4-2.
V5-1a	Basel III – Pillar 1
Syllabus	 Advanced approaches for determining the minimum capital requirements for o credit risk (IRBA, credit risk mitigation techniques) o operational risk (incl. proposal by the European Commission) o market risk (including trading book risks and internal risk models) Securitisation transactions Quantitative impact study (QIS) for estimating the minimum capital requirements of new regulations Fundamentals of the definition of own funds European banking supervision in depth (EBA, SSM, banking union)
V5-1b	Basel III – Pillars 2 and 3 (including liquidity supervision)
Syllabus	 Specific provisions of MaRisk Additional capital buffer for institutions Disclosure requirements for institutions German Liquidity Regulation, LCR and NSFR and associated provisions on the supervision of liquidity risk
V5-1c	Current developments in European supervisory law
Syllabus	 Architecture, tasks and objectives of international standard-setting bodies and supervisory authorities Legislative process in the European committee structure Case study on legal hierarchy: from recommendation to national regulation

nit of V5 Securities and insurance supervision
ogramme Bachelor of Science, Zentralbankwesen/Central Banking degree programme
V5-2
level of the In-depth study 1
Module unit; quantitative content 20%, English-language content according to the table on page12 and the appendix to the module catalogue, legal content 90%
workload 90 hours, of which 37.5 contact hours (50x45-minute teaching sessions) and 52.5 hours of independent study
nethods Classes, independent study, group work, exercises, case studies
esponsible for Professor Andreas Höfer
Students will learn about the statutory supervision standards for organised capital markets and for enterprises that are able to tap the capital markets as well as the links with other areas of financial market supervision. Moreover, students will acquire an overview of the economic and legal framework of the insurance industry, its risk profile and the structures of insurance supervision. In addition, students will be able to apply the core insurance supervision standards and identify differences and similarities vis-à-vis banking supervision.
Farny, D.: Versicherungsbetriebslehre, latest edition. Schäfer, H. (eds.): Compliance – Konsequenzen verschärfter Vorgaben aus WpHG und Bankenaufsicht, latest edition. Gründl, H./Perlet, H.: Solvency II & Risikomanagement, latest edition. Gründl, H./Kraft, M. (Eds.): Solvency II – Eine Einführung, latest edition. Nguyen, T./Romeike, F.: Versicherungswirtschaftslehre – Grundlagen für Studium und Praxis, latest edition. Gondring, H.: Versicherungswirtschaft: Handbuch für Studium und Praxis, latest edition. Bennemann, C./Oehlenberg L./Stahl, G.: Handbuch Solvency II, latest edition. Führer, C./Grimmer, A.: Einführung in die Lebensversicherungsmathematik, lst. edition. Looschelders, D./Paffenholz, C./Krimphove, D.: Versicherungsvertragsrecht, latest edition. Lengyel, S.: Die Bilanzen der Versicherungsunternehmungen – Eine Bilanzlehre und eine Bilanzanalyse, latest edition. Bähr (Ed.): Handbuch des Versicherungsaufsichtsrechts, latest edition. Schwepcke, A.: Vetter, A.: Praxishandbuch: Rückversicherung, latest edition. Schwepcke, A.: Rückversicherung, latest edition. Schwepcke, A.: Rückversicherung, latest edition. Securities supervision — BaFin's responsibilities regarding securities supervision/asset management — Obligations arising from listing securities on a stock exchange as well as acquisition procedures and balance sheet checks — Inspection of securities and investment prospectuses
 Market integrity, in particular monitoring of insider trading, market manipulation Organisational rules and rules of conduct for securities service providers Supervision of investment companies
International supervisory bodies Incurance industry expeniestics, business lines and incurance naticing.
Insurance industry: organisation, business lines and insurance policies
 Organisational forms of insurance companies, associations Types of policies, types of insurance, definition and balancing of risk Primary insurance and reinsurance, InsurTech companies, fundamentals of calculating premiums Structure and items of financial statements; financial statement analysis
Insurance supervision
 Fundamentals of insurance supervision Granting and revocation of authorisation Legal supervision – supervisory activities, authorisation requirements and supervision of special supervised institutions Financial supervision – quantitative and qualitative requirements for insurance companies in the context of ongoing supervision (including mathematical aspects of supervision, e.g. with regard to insurance technical reserves and surplus distribution) Supervision of institutions for occupational retirement provision
sup - Fina con asp sur

Code Academic level of the module Type ECTS credits Academic workload Length of the module Teaching and learning formats Examination date Form of examination; (percentage in English) Grading Examination School the module Frequency The Study contents V6 In-december 1998 In-percentage in English Information (40) Information 1998 Introduced 1998 Intr	ing the study stage sentation
Academic level of the module Type	ctive module; quantitative content 44%, English-language content according to table on page 12 and the appendix to the module catalogue, legal content 0% CTS credits hours, of which 105 contact hours (140x45-minute ching sessions) and 135 hours of independent study onths erson classes, online classes, hybrid teaching formats; lectures, exercises, case dies ing the study stage sentation
module Type Electron ECTS credits Academic workload Length of the module Teaching and learning formats Examination date Duri Form of examination; (percentage in English) Grading Exa Schof the Information; Study contents Frequency The Study contents Electron This Trequency The Capacitate Agile Data Qua Proj Mac Also cond	ctive module; quantitative content 44%, English-language content according to table on page 12 and the appendix to the module catalogue, legal content 0% CTS credits hours, of which 105 contact hours (140x45-minute ching sessions) and 135 hours of independent study onths erson classes, online classes, hybrid teaching formats; lectures, exercises, case dies ing the study stage sentation
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Frequency The Study contents Intro Leac Agile Data Qua Proj Mac also cone	neme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 ne GBankDVDV "Examination grading") and the curriculum (Section 3). Irmation on grading as well as failure and drop-out rates can be found in the stor's annual report. Is information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Study contents Intro Lead Agile Data Qua Proj Mac also cond	mandatory module is generally offered twice a year.
Qualification objectives Qualification objectives The increase also Bun Furt learn	dership and Work in Digital Transformation e Methods and Innovation Culture a Management antitative Methods of Data Science and Their Application ject Work, Excursions, and Laboratory Projects on Digital Transformation, chine Learning, Big Data, and Artificial Intelligence; presented as lectures and o in innovative formats such as "Thinkathons" or "Hackathons," planned and ducted in collaboration with interested areas of the bank. rent projects from various central areas are presented and combined with ctical exercises, so that theory, application, and practical implementation are grated. e students are familiar with the challenges that organizations face in light of easing digitalization, in technical, organizational, and personnel aspects. They of understand the problems and challenges of data management in the indesbank and can describe solutions that address professional requirements. thermore, the students know examples of successful data science, machine ining, and Al applications in business and administration and can evaluate them. orepare for participation in module V6, students are advised to study the
·	prepare for participation in module v6, students are advised to study the participation in module v6, students are advised to study the participation in module units V6-1, V6-2 and V6-3.
Prerequisites A1 C Kno digit Exis mar Students	Quantitative methods by by ledge already acquired from modules G1 and A1 on application systems and tal transformation as well as business intelligence sting knowledge of data analysis using Excel; acquired knowledge of project nagement dents are also advised to study the recommended preliminary reading texts for dule units V6-1, V6-2 and V6-3.
module W6 relate The direct	module counts towards other relevant degree programmes. Modules W5 and are directly related to the teaching content; modules with quantitative and IT-ted content build indirectly on module V6. knowledge gained is applicable to activities in almost all the Bundesbank's ctorates general, as well as at BaFin and other central banks.
Connection to G1:	
other modules A1: (Potentially) followed by W5: W6:	

Module unit of V6	Digital transformation
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V6-1
Academic level of the module	In-depth study 1
Туре	Module unit; quantitative content 20%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
Academic workload	65.5 hours, of which 25.5 contact hours (34x45-minute teaching sessions) and 40 hours of independent study
Teaching methods	Classes, independent study, group work, project work and laboratory projects
Lecturer responsible for	Professor Matthias Goeken
the module	
Academic objectives	 Students will learn the challenges organisations face in light of increasing digitalisation from a technical, organisational and human resources perspective; will be able to describe key management challenges as well as approaches and concepts for dealing with them; will learn methods aimed at implementing innovations and changes within organisations.
Preliminary reading	Baltes G, Freyth A: Veränderungsintelligenz: Agiler, Innovativer, Unternehmerischer Den Wandel Unserer Zeit Meistern. Wiesbaden: Gabler, latest edition. Brynjolfsson E, McAfee A: The second machine age: Work, progress, and prosperity in a time of brilliant technologies. New York, London: W.W. Norton & Company, latest edition. Hess T: Digitale Transformation strategisch steuern: Vom Zufallstreffer zum systematischen Vorgehen. Wiesbaden: Springer Fachmedien Wiesbaden, Ist.edition. Siebel TM, Rice C: Digital transformation: Survive and thrive in an era of mass extinction. New York, NY: RosettaBooks, latest edition. Stahl R, Staab P: Don't worry, be digital: Tipps für einen angstfreien Umgang mit Digitalisierung, latest edition. Streicher HW: Digitale Transformation in der öffentlichen Verwaltung: Praxishandbuch für Projektleiter und Führungskräfte. 1st ed. Berlin: Springer Berlin; Springer Gabler, latest edition. Uebernickel, Falk et al.: Design Thinking: Das Handbuch. Frankfurter Allgemeine Verlag, latest edition.
V6-1a	Introduction and basic concepts (10 teaching sessions (TS))
Syllabus	 Basic concepts and framework conditions Strategies and structures for digital transformation Business models and value added in the digital age Levels and frameworks of digital transformation Relevant technologies Case studies on fundamentals/organisation, value added structures and business models
V6-1b	Leadership and work in digital transformation (12 TS)
Syllabus	 Challenges of a new working environment New work/future work Digital leadership/new leadership Change intelligence and change management Roles in digital transformation Case studies on leadership and work in digital transformation
V6-1c	Agile methods and innovation culture (12 TS)
Syllabus	 Values and principles of agility Agility as a response to increasing environmental dynamics/VUCA Potential and limits of organisational agility Innovation and innovation-friendly corporate cultures User-centric approaches, prototyping and iterative procedural models Design thinking Agility and innovation at the Bundesbank Case studies on agile methods and innovation

Module unit of V6	Advanced analytics
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V6-2
Academic level of the module	In-depth study 1
Туре	Module unit; quantitative content 60%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
Academic workload	112.5 hours, of which 52.5 contact hours (70x45-minute teaching sessions) and 60 hours of independent study
Teaching methods	Classes, independent study, group work
Lecturer responsible for the module	Professor Giselher Pankratz
Academic objectives	Students - will learn to understand the issues and challenges of data management at the Bundesbank and be able to describe solutions that address technical requirements - will become familiar with data preparation, data analysis and machine learning procedures that are used throughout the Bundesbank and be able to apply them independently - will be able to weigh up the strengths and weaknesses of the various procedures - will be able to apply tools relevant in practice/at a later date in order to solve
Preliminary reading	deron, Aurélien: Praxiseinstieg Machine Learning mit Scikit-Learn, Keras und TensorFlow. Konzepte, Tools und Techniken für intelligente Systeme. 2nd edition. Heidelberg, 2020. Haneke U, Trahasch S, Zimmer M, Felden C: Data Science: Grundlagen, Architekturen und Anwendungen. Heidelberg: dpunkt, latest edition. von der Hude, M: Predictive Analytics und Data Mining. Eine Einführung mit R. Wiesbaden, 2020. Matthes E, Gronau V: Python Crashkurs: Eine praktische, projektbasierte Programmiereinführung. Heidelberg: dpunkt.verlag, latest edition. Nguyen CN, Zeigermann O: Machine Learning – kurz & gut: Eine Einführung mit Python, Pandas und Scikit-Learn. Heidelberg: O'Reilly, latest edition. Russell, S; Norvig, P.: Artificial Intelligence: A Modern Approach. 4th edition, Pearson 2020. Artificial Intelligence: A Modern Approach, latest edition. Stahl R, Staab P: Die Vermessung des Datenuniversums: Datenintegration mithilfe des Statistikstandards SDMX. Berlin: Springer Vieweg, latest edition.
V6-2a	Data management (20 TS)
Syllabus	 Data strategy and data governance at the Bundesbank Data lifecycle Data models Data architecture Data preparation (data wrangling) Introduction to Python Data visualisation
V6-2b	Quantitative methods of data science and their application (50 TS)
	 Introduction to machine learning and artificial neural networks Supervised learning procedures Unsupervised learning procedures Other machine learning styles and procedures: reinforcement learning, deep learning, neural networks, text mining Practical exercises with use cases, exercises, frameworks and tools (Python, low code tools) Presenting data and analyses appropriately: data visualisation and storytelling

Module unit of V6	Use cases
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	V6-3
Academic level of the module	In-depth study 1
Туре	Module unit; quantitative content 40%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
Academic workload	62 hours, of which 27 contact hours (36x45-minute teaching sessions) and 35 hours of independent study
Teaching methods	Classes, independent study, group work, project work and laboratory projects
Lecturer responsible for the module	Professor Matthias Goeken
Academic objectives	 Students will learn examples of successful data science/machine learning and AI applications in business and administration will gain initial practical experience in applying advanced analytical techniques will learn the criteria for assessing the suitability of individual procedures for different practical analysis situations will be able to apply this experience and knowledge to their own analyses and during periods of practical training will be able to assess the economic and social risks as well as the opportunities of data-driven decision-making in a differentiated manner
Preliminary reading	Buxmann P, Schmidt H (eds.): Künstliche Intelligenz: Mit Algorithmen zum wirtschaftlichen Erfolg. Berlin, Heidelberg: Springer Berlin Heidelberg, latest edition. See also the information for the module units V6-1 and V6-2.
Syllabus	Project work, excursions and laboratory projects on digital transformation, machine learning, big data and artificial intelligence; in the form of lectures as well as in innovative formats such as "thinkathons" or "hackathons", planned and implemented in cooperation with interested areas of the Bank. Ongoing projects from various directorates general are presented and combined with exercises, thus linking theory, application and practical implementation. Examples of projects: - Innovate@HDB – improving the study experience. A design thinking group project (Dan Hasse, Digital Office) - "Thinkathon" lasting several days at Innowerk, the Deutsche Bundesbank's innovation ecosystem in Frankfurt, in the Trianon building - News analytics – evaluating social media posts for banking supervision (Dr Stotz/Godini, B44) - Market intelligence – using data science to analyse the capital market (Dr Zajonz, M)
	 Natural language processing (Dr Rumpf/Dr Sahamie, IT/Rc) To buy or not to buy? The stock market participation puzzle, solved using machine learning

2.4 In-depth study 2

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
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Modules(elective modules for Bundesbank students/mandatory and elective modules for BaFin students)	ECTS ⁵ credits	Contact hours (45-minute teaching sessions)	Workload (hours)	Form of examination (percentage in English)
Module group 1: Case studies on core business a	reas of cei	ntral banks and su	pervisory author	ities
W1: Case studies on monetary policy and financial stability (Elective module)	5	88	150	Presentation (100)
W2: Case studies on financial supervision (Elective module for Bundesbank students/mandatory module for BaFin students)	5	88	150	Seminar paper (100)
W3: Case studies on payment transactions and financial market infrastructure (Elective module)	5	88	150	Presentation (70)
Module group 2: Key methods for employees in co	entral bank	s and supervisory	authorities	
W4: Corporate law, contract practice and contract management (Elective module)	5	88	150	Presentation
W5: Financial econometrics (Elective module for Bundesbank students/mandatory module for BaFin students)	5	88	150	Oral examination (50)
W6: Process and project management (Elective module)	5	88	150	Seminar paper
Total: 4 out of 6 modules	20	352	600	4 module exams

⁵ Credits under the European Credit Transfer and Accumulation System. According to Section 3(3) of the curriculum, one ECTS credit corresponds to 30 hours, workload.

Module	Case studies on monetary policy and financial stability
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	W1
Academic level of the	In-depth study 2
module	
Туре	Elective module from the "Core business areas" module group; quantitative content 50%,
21	English-language content according to the table on page 12 and the appendix to the
	module catalogue, legal content 10%
ECTS credits	5 ECTS credits
Academic workload	150 hours, of which 66 contact hours (88x45-minute teaching sessions) and 84 hours of
	independent study
Length of the module	4 months
Teaching and learning	In-person classes, online classes, hybrid teaching formats
formats	
Teaching methods	Classes, independent study, group work
Lecturer responsible for	Professor Tobias Körner
the module	
Examination date	During the study stage
Form of examination	Presentation (Written elaboration without page limit + oral presentation 15 - 20 min. +
(percentage in English)	subsequent discussion approximately 20 min.; according to § 10 para. 3 Studienplan)
	(100)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training
	Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the
	GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading
	as well as failure and drop-out rates can be found in the Rector's annual report. This
	information is available at https://www.hochschule-bundesbank.de/hochschule-en.
Frequency	The mandatory module is generally offered twice a year.
Preparation	To prepare for participation in module W1, students are advised to study the recommended
Day and the second seco	preliminary reading texts.
Prerequisites	A5 Monetary economics
	V2 Analysis of financial statements and financial instruments
Applicability of the	Students are also advised to study the recommended preliminary reading texts. The module counts towards other relevant degree programmes.
Applicability of the module	Furthermore, the knowledge gained is applicable in the Bundesbank's DGs B, F, M, P, Vo
module	and Z, at BaFin and other central banks.
Connection to	In addition to the preceding modules, there are connections to modules V3, W2, W3 and
other modules	W5.
Academic objectives	Students will learn about the framework conditions and current developments in monetary
/ toddoffilo objectives	and macroprudential policy in Germany and Europe. They will be in a position to analyse
	current developments using underlying economic models and statistical methods. They will
	gain an understanding of the historical, economic and political-economic reasons for the
	current institutional framework of European monetary union. They will learn how to assess
	the importance of systemic risk in the context of current financial stability reports and
	historical financial crises. In addition, they will be able to establish links between monetary
	policy and macroprudential policy as well as to other central bank core activities, such as
	banking supervision and payments.
Preliminary reading	De Grauwe, Paul, Economics of Monetary Union, Oxford University Press, latest edition.
	Financial stability reports and regular publications of selected central banks, IMF, BIS.
	Kruse, Oliver and Tobias Körner (eds.), Einführung in die Finanzstabilität, Schäffer-
1844	Poeschel, 1st edition, 2022.
W1a	Case studies on monetary policy
Syllabus	Economics of European monetary union
	Selected topics in applied monetary policy
	Current developments in the monetary policy of the euro area
W1b	Financial stability: analysis and policy
Syllabus	Surveillance framework for macroprudential analysis
	Data-driven tools and applications for the analysis of systemic risk
	Policy framework in Germany and the euro area
W1c	Policy framework in Germany and the euro area Case studies on financial stability
W1c Syllabus	

Module	Case studies on financial supervision
Degree programme	Bachelor of Science, "Central Banking" degree programme
Code	W2
Academic level of the module	In-depth study 2
Туре	Elective module for Bundesbank students/mandatory module for BaFin students from the "Core business areas" module group; quantitative content 80%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 80%
ECTS credits	5 ECTS credits
Academic workload	150 hours, of which 66 contact hours (88x45-minute teaching sessions) and 84 hours of independent study
Length of the module	4 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats; exercises, case studies
Teaching methods	Classes, independent study, group work
Lecturer responsible for the module	Professor Markus Rose
Examination date	During the study stage
Form of examination (percentage in English)	Oral examination (approx. 15 minutes; according § 10 Abs. 2 Studienplan) (100)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Preparation	To prepare for participation in module W2, students are advised to study the recommended preliminary reading texts.
Prerequisites	G3 Introduction to the banking industry A4 Credit and banking supervision V1 Bank and central bank management V2 Analysis of financial statements and financial instruments V5 Banking, securities and insurance supervision (recommended) Students are also advised to study the recommended preliminary reading texts.
Applicability of the module	The module counts towards other relevant degree programmes. Furthermore, the knowledge gained is applicable in the Bundesbank's DGs B, F, M, P, S, Vo and Z as well as in the regional offices, at BaFin and at other central banks.
Connection to other modules	Besides the preceding modules, the module is most closely related to module W5.
Academic objectives	Students will gain an in-depth insight into the various areas of work involved in ongoing supervision and on-site inspections. In addition to cooperation with BaFin with regard to less significant institutions (LSIs), the corresponding approaches in the SSM with the involvement of ECB banking supervisors will be covered in individual case studies. The case studies' content will undergo constant adjustment in line with current developments, with the involvement of the lecturer responsible for the module. At present, the case studies have the following academic objectives: Students will learn about an approval procedure for an internal risk model (e.g. IRBA, AMA or market risk model) at a group of institutions with cross-border activities in the European Union, and will be able to identify the associated coordination and valuation issues. They will learn how to incorporate findings made during the procedure into an overall assessment and to decide on whether the institution should be allowed to apply the internal risk model for supervisory purposes. Furthermore, students will become familiar with inspection reports (in particular pursuant to Section 44 of the Banking Act) and will evaluate these reports from a risk perspective. They will use information obtained in the analysis to carry out valuations and make recommendations for action and will identify those areas where additional information may be required. In addition, students will gain an overview of the supervisory review and evaluation process (SREP) which must be applied at least once a year to each institution or group of institutions. They will learn

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	to recognise that their overall conclusion in this process must be made in proportion to the size and complexity of the institution and develop an awareness of the importance of dialogue (e.g. via supervisory meetings) with the institution. Moreover, they will learn which topics require particular attention (e.g. stress tests, covering concentration risks) and which banking supervision tools are useful in implementing the SREP (e.g. risk profile).
Preliminary reading	Bieg, H./Krämer G./Waschbusch, G./Igl, A.: Bankenaufsicht in Theorie und Praxis, 5th edition. Buchmüller, P./Igl, A./Neus, W.: Einführung in die Bankenregulierung: Darstellung wesentlicher aufsichtsrechtlicher Vorgaben, latest edition. Anonymised extracts from inspection reports on internal risk models (in particular for groups of institutions with cross-border activities) Anonymised Bundesbank evaluation of an audited annual financial statement and of a report on an inspection pursuant to Section 44 of the Banking Act Current project files, inspection concepts and guidelines for on-site inspections; current publications by the Bundesbank's DGs and the ECB
W2a	Case studies on ongoing supervision
Syllabus	 Implementation of the SREP at an SI and LSI; BAIT and the examination of IT risks; use of risk profiles; leasing, factoring, payment services; international cooperation in cross-border groups
W2b	Case studies on on-site inspections
Syllabus	 Risk-oriented analysis and evaluation of financial statement audit reports and inspection reports; business model analysis in the SREP context; testing of PD/LGD models; interest rate risk (economics, requirements, measurement & management)
W2c	Case studies on strategic issues relating to banking regulation and topical issues
Syllabus	Crisis management; interlinkage of commercial and supervisory law; current developments in the ICAAP and the ILAAP

Module	Case studies on payment and financial market infrastructure
Degree programme	Bachelor of Science, "Central Banking" degree programme
Code	W3
Academic level of the module	In-depth study 2
Туре	Elective module from the "Core business areas" module group; quantitative content 25%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 20%
ECTS credits	5 ECTS credits
Academic workload	150 hours, of which 66 contact hours (88x45-minute teaching sessions) and 84 hours of independent study
Length of the module	4 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats
Teaching methods	Classes, independent study, group work
Lecturer responsible for the module	Professor Giselher Pankratz
Examination date	During the study stage
Form of examination (percentage in English)	Presentation (Written elaboration without page limit + oral presentation 15 - 20 min. + subsequent discussion approximately 20 min.; according to § 10 para. 3 Studienplan) (70)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Preparation	To prepare for participation in module W3, students are advised to study the recommended preliminary reading texts.
Prerequisites	A3 Payment transactions: The following knowledge and skills imparted in modules G3 and A3 are required: A basic understanding of payment systems and financial market infrastructures Knowledge of the participants and processes involved in cash payments and cash logistics. Students are also advised to study recommended preliminary reading texts.
Applicability of the module	The module counts towards other relevant degree programmes. Furthermore, the knowledge gained is applicable in the Bundesbank's DGs B, F, H, M, Vo and Z, as well as at BaFin and other central banks and commercial banks.
Connection to other modules	In addition to the preceding modules, there are connections to module W1 Case studies on monetary policy and financial stability
(Potentially) followed by	
Academic objectives	Students will be able to assess the monetary policy aspects of payment transactions and analyse the links between payment transactions, securities settlement and financial stability. They will be able to assess more recent developments in payment transactions and financial market infrastructures and to represent the Bundesbank or BaFin in working groups appropriately.
Preliminary reading	Berndsen R.J.: Financial Market Infrastructures and Payments, Veghel, latest edition. ECB (ed.: Kokkola, T.): The Payment System, Frankfurt, 2010. Bundesbank and ECB publications
W3a	Financial market infrastructure
Syllabus	 Microfoundations of financial market infrastructures Network theory applied to the settlement of financial derivatives via central counterparties Innovative instruments and methods for transferring financial assets European and global projects for the further development of financial market infrastructures Impact of financial sector regulation on financial market infrastructures and central bank money creation
W3b	Current issues relating to cash payments
Syllabus	 The changing importance of cash Digitalisation and automation in cash payments Analyses of processes and structures of cash payments and cash logistics Important national and European projects in the field of cash payments

Module	Corporate law, contract practice and contract management
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	W4
Academic level of the	In-depth study 2
module	in-acptif study 2
Туре	Elective module from the "Methods" module group; quantitative content 0%, English-
1 3/2 3	language content according to the table on page 12 and the appendix to the module
	catalogue, legal content 90%
ECTS credits	5 ECTS credits
Academic workload	150 hours, of which 66 contact hours (88x45-minute teaching sessions) and 84
	hours of independent study
Length of the module	4 months
Teaching and learning	In-person classes, online classes, hybrid teaching formats
formats	
Teaching methods	Classes, group work, and independent study
Lecturer responsible for	Professor André Alfes
the module	
Examination date	During the study stage
Form of examination	Presentation (Written elaboration without page limit + oral presentation 15 - 20 min.
(percentage in English)	+ subsequent discussion approximately 20 min.; according to § 10 para. 3
	Studienplan)
One die e	(0)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank
	(Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section
	3). Information on grading as well as failure and drop-out rates can be found in the
	Rector's annual report. This information is available at https://www.hochschule-
	bundesbank.de/hochschule-en.
Frequency	The mandatory module is generally offered twice a year.
Preparation	To prepare for participation in module W4, students are advised to study the
•	recommended preliminary reading texts.
Prerequisites	G4 Introduction to the legal system: Basic Law, Civil Code and Commercial Code
	A4 Credit and banking supervision
	Students are also advised to study the recommended preliminary reading texts.
Applicability of the	The module counts towards other relevant degree programmes.
module	Furthermore, the knowledge gained is applicable in the Bundesbank's DGs B, M and
	Z, as well as at BaFin and other central banks.
Connection to	In addition to the preceding modules, there are connections to modules G4
other modules	Introduction to the legal system: Basic Law, Civil Code and Commercial Code
(Detentially) followed by	A4 Credit and banking supervision
(Potentially) followed by Academic objectives	Students will be able to access the main types of enterprise and their economic and
Academic objectives	Students will be able to assess the main types of enterprise and their economic and legal advantages and disadvantages with respect to formation, organisation,
	representation and liability. Students will be able to apply the material taught to the
	areas of business relationships with monetary policy counterparties, banking
	supervision and payment transactions. Students will acquire initial experience in
	planning, drawing up and negotiating contracts. Students will gain an overview of the
	different procedures for enforcing claims and be able to develop recommendations for
	action in specific circumstances. In the area of financial contracts, they will be able to
	identify, assess and influence the key legal and economic points in contractual
	documentation.
Preliminary reading	Grunewald B., Gesellschaftsrecht, latest edition.
	Bühring-Uhle, C. / Eidenmüller, H. / Nelle, A.: Verhandlungsmanagement, latest
	edition.
	Heussen, B. / Pischel, G. / Curschmann, J.: Handbuch Vertragsverhandlung und
	Vertragsmanagement, latest edition.
	Musielak HJ.: Grundkurs ZPO, latest edition.
\A/4	Foerste, Insolvenzrecht, latest edition.
W4a	Corporate law
Syllabus	Partnerships (civil-law associations, general partnerships, limited partnerships in
	which private limited parties are partners)

	 Corporations (public limited companies, SEs, commercial partnerships limited by shares, private limited companies)
	Taxation of companies
W4b	Contract management
Syllabus	Contract planning and drafting
	 Contract negotiations and contract conclusion techniques
W4c	Legal action in civil proceedings, compulsory enforcement and insolvency
Syllabus	 Introduction to procedural enforcement of claims in civil proceedings
	 Introduction to compulsory enforcement
	 Introduction to insolvency
	 Financial collateral in compulsory enforcement and insolvency
W4d	Case studies on financial contracts
Syllabus	 Contractual documentation of financial transactions
	Derivatives contracts
	 The Bundesbank's repo contracts
	 Monetary policy loan agreements
	 Contractual documentation of projects
	TARGET2-Securities (T2S)
	Common Eurosystem Pricing Hub (CEPH)
	 Common Credit Assessment System (CoCAS)

Degree programme Code W5 Academic level of the module Type Elective module for Bundesbank students/mandatory module for BaFin students from the "Methods" module group; quantitative content 100%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0% ECTS credits Academic workload Academic workload Length of the module Leng	Degree programme Code WS Academic level of the module Type Elective module for Bundesbank students/mandatory module for BaFin students from the "Methods" module group; quantitative content 100%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0% ECTS credits Academic workload Academic workload Academic workload In-person classes, online classes, hybrid teaching formats Iraeching and learning formats Iraeching methods Classes, independent study, group work, case studies (partly using PCs), project work Ecturer responsible for the module Examination date Examination date During the study stage Oral examination (percentage in English) Grading Frofessor Christoph Schmidhammer The Grading ora samination (percentage in English) Grading Frequency The mandator ymodule is generally offered twice a year. Frequency The mandatory module is generally offered twice a year. Frequency The mandatory module is generally offered twice a year. Preparation To prepare for participation in module WS, students are advised to study the recommended preliminary reading texts. Applicability of the modules Connection to the modules Connection to the modules Connection to the recommended preliminary reading texts. The modules Academic objectives Furthermore, the knowledge gained is applicable in many of the Bundesbank's DG, but especially in S, B, RC and M, as well as at BaFrin and other central banks. In addition to the preceding modules, there are connections to modules W2, V1 and Af. Pretaminary reading Preliminary reading of data sources at the Bundesbank's DG, but especially in module is generally offered twice a year. Frequency The module counts towards other relevant degree programmes. Furthermore, the knowledge gained is applicable in many of the Bundesbank's DG, but especially in S, B, RC and M, as well as at BaFrin and other central banks. In addition to the preceding modules, there are connections to modules W2, V1 and A	Module	Financial econometrics
Code Module Type Elective module for Bundesbank students/mandatory module for BaFin students from the Methods' module group; quantitative content 100%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 00% to the table on page 12 and the appendix to the module catalogue, legal content 00% to the table on page 12 and the appendix to the module catalogue, legal content 00% to the table on page 12 and the appendix to the module catalogue, legal content 00% to the table on page 12 and the appendix to the module catalogue, legal content 00% to the table on page 12 and the appendix to the module catalogue, legal content 00% to the table on page 12 and the appendix to the module downs of independent study. Length of the module Teaching and learning formats Classes, independent study, group work, case studies (partly using PCs), project work work Lecturer responsible for the module Examination date During the study stage Coral examination (approx. 15 minutes; according § 10 Abs. 2 Studienplan) Grading Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/borkschule-andesbank.d	Code W5		
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Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at <a (section="" 3).="" <a="" and="" annual="" as="" at="" available="" be="" can="" curriculum="" drop-out="" examination="" failure="" found="" grading="" grading")="" href="https://www.hochschule-bundesbank.de/hochschule-en." in="" information="" is="" on="" rates="" rector's="" report.="" the="" this="" well="">https://www.hochschule-bundesbank.de/hochschule-en. Frequency The mandatory module is generally offered twice a year. Preparation To prepare for participation in module W5, students are advised to study the recommended preliminary reading texts. A1 Quantitative methods V1-1 Bank management and risk management V2 Analysis of financial statements and financial instruments Students are also advised to study the recommended preliminary reading texts. Applicability of the module Applicability of the module counts towards other relevant degree programmes. Furthermore, the knowledge gained is applicable in many of the Bundesbank's DGs, but especially in S, B, RC and M, as well as at BaFin and other central banks. Connection to other modules (Potentially) followed by Academic objectives Students will	(percentage in English)	(50)	
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- Introduction to data structures
- Data sources at the Bundesbank (including Refinitiv Workspace)
- Programming in the statistical software R

Econometric methods

Multiple regression

- OLS estimator, BLUE characteristic
- Statistical tests: t-test, F-test, Goldfeldt-Quandt test, White test, Durbin Watson test, Jarque-Bera test
- Robust estimation procedures (GLS, FGLS, ARCH)
- Adjustments for non-linearity
- Non-metric exogenous variables: dummy and interaction terms
- Endogeneity

Binary regression

- Maximum likelihood estimator
- Logit & probit transformation

Modelling and data cases

- Modelling research-related problems in the areas of market microstructure (complete research-related analysis), ESG, credit risk and economics (please expand on all content)
- Independent use of spreadsheet programs (Excel), statistical software (R, EViews and/or stata)
- Interpretation of estimation results in the case context

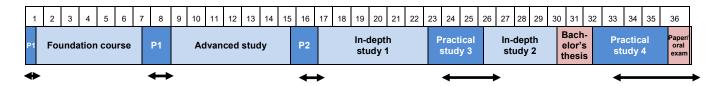
Module	Process and project management
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	W6
Academic level of the	In-depth study 2
module	
Туре	Elective module from the "Methods" module group; quantitative content 50%, English-language content according to the table on page 12 and the appendix to the module catalogue, legal content 0%
ECTS credits	5 ECTS credits
Academic workload	150 hours, of which 66 contact hours (88x45-minute teaching sessions) and 84 hours of independent study
Length of the module	4 months
Teaching and learning formats	In-person classes, online classes, hybrid teaching formats; lectures, exercises, case studies
Teaching methods	Classes (also using PCs), independent study, group work
Lecturer responsible for the module	Professor Norbert Frick
Examination date	During the study stage
Form of examination (percentage in English)	Seminar paper (Written elaboration with page limit 10 pages; according to § 10 para. 4 Studienplan) (0)
Grading	Exams are graded in line with the rules of the Regulation on the Preparatory Training Scheme for the Upper Intermediate Service at the Deutsche Bundesbank (Article 22 of the GBankDVDV "Examination grading") and the curriculum (Section 3). Information on grading as well as failure and drop-out rates can be found in the Rector's annual report. This information is available at https://www.hochschule-bundesbank.de/hochschule-en .
Frequency	The mandatory module is generally offered twice a year.
Preparation	To prepare for participation in module W6, students are advised to study the recommended preliminary reading texts.
Prerequisites	A1 Quantitative methods; knowledge already acquired on application systems, digital transformation and integration, information management and project management. Existing knowledge of data and process modelling and data analysis is deepened and applied. A4, V1 and/or V5: in-depth understanding of business processes in banking and insurance. V1 Bank and central bank management Students are also advised to study the recommended preliminary reading texts.
Applicability of the module	The module counts towards other relevant degree programmes. The knowledge gained is applicable to activities in all the Bundesbank's DGs, as well as at BaFin and other central banks.
Connection to	In addition to the preceding modules, there are connections to modules W2, V1 and
other modules	A1
(Potentially) followed by	
Academic objectives	Students will be familiar with internal approaches to and market standards for project management as well as methods and procedures, and will be able to place and apply them accordingly. They will be capable of formulating the objective, content and scope of a project and be able to draw up a general plan (costs, timeframe, staff, risks). They will be able to apply IT support tools in the context of project management. In addition, students will recognise that the human aspect of projects is a key factor for success and will complete projects in working groups. Students will become familiar with basic aspects (objectives, approaches, problems) of process management and be able to model processes. They will work with a process modelling tool, using it to create operable process models. They will also be able to analyse and document moderately difficult problems using the right models and techniques as part of the system analysis. They will be capable of selecting and applying appropriate models and presentation techniques for simple problems as part of the system design.
Preliminary reading	Sommerville I.: Software Engineering, latest edition. Krallmann H. et al. (eds.): Systemanalyse im Unternehmen, latest edition. Schmelzer H.J. et al.: Geschäftsprozessmanagement in der Praxis, latest edition. Deutsche Bundesbank: Projektleitfaden. Schelle H., Ottmann R., Pfeiffer A.: Projekt Manager, GPM Deutsche Gesellschaft für Projektmanagement, latest edition.

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	Becker J.; Mathas C.; Winkelmann A.: Geschäftsprozessmanagement. Heidelberg, latest edition. Becker J., Kugeler M., Rosemann M. (eds.): Prozessmanagement. Ein Leitfaden zur prozessorientierten Organisationsgestaltung. Heidelberg, latest edition. Gadatsch A.: Grundkurs Geschäftsprozess-Management. Methoden und Werkzeuge für die IT-Praxis: Eine Einführung für Studenten und Praktiker. Wiesbaden, latest
MCa	edition.
W6a	Project management
Syllabus	 Project management at the Deutsche Bundesbank
	 Project structuring, planning, controlling and implementation, risk management,
	quality management, conflict management and team development
	- Case studies
W6b	Process management
Syllabus	 Business processes, business process management
	 Process modelling using graphical modelling languages (e.g. EPK)
	 Analysis and optimisation of business processes, business process re-
	engineering
	Case studies
W6c	System analysis and software engineering
Syllabus	 Requirements management, requirements engineering
	 Textual and conceptual techniques for specification of requirements
	 Dealing with requirements in agile projects
	 Prototyping techniques (mockups and wire frames), use of low-code/no-code environments
	 Case studies and small group projects

3 Practical studies

3.1 Practical studies for Bundesbank students



Code	Module	Study stage	ECTS credits	Duration	Туре	Examination
P1-1	Overview of the Bundesbank including interdisciplinary functions part 1 (Central Office of the Bundesbank)	Practical study 1 (part 1)	See part 2	Around 2 months (part 1:	Mandat ory module	In part 2
P1-2	Overview of the Bundesbank including interdisciplinary functions part 2	Practical study 1 (part 2)	7	4-9 days)		For each module students must take one examination
P2	Organisation and tasks of a Bundesbank branch	Practical study 2	7	Around 7 weeks	Mandat ory module	consisting of a performance
РЗА	Organisation and tasks of banking supervision	Practical	7	Around 7 weeks	Mandat ory module	evaluation (25%)
Р3В	Organisation and tasks of areas with operational, operative monetary policy and financial stability functions	study 3	7	Around 7 weeks	Mandat ory module	an examination (75%). The different forms of
P4A	Organisation and tasks of areas with operational, operative monetary policy and financial stability functions		8	Around 7 weeks	Elective module	examination are: o Internship report
P4B	Organisation and tasks of areas with interdisciplinary functions	Practical study	8	Around 7 weeks	Elective module	Completing other practical tasks typically
P4C	Internship at another suitable institution in Germany or abroad	4 Three of	8	Around 7 weeks	Elective module	performed in the Upper
P4D	Organisation and tasks of banking supervision	six elective	8	Around 7 weeks	Elective module	Intermediate Service Presentation
P4E	Professional specialisation at the Bundesbank	modules	8	Around 7 weeks	Elective module	Paper Oral
P4F	Organisation and tasks of a Bundesbank branch		8	Around 7 weeks	Elective module	examination

An overview of the main content-related links between theoretical and practical studies can be found on the following page.

Main content-related links between theoretical and practical studies

The overview shows the two-way link between the main contents of the practical modules and those of the theoretical modules. The wide range of business units covered by the practical modules requires a broad theoretical knowledge base, which is covered by the theoretical modules. There is a dovetailing of modules throughout the programme. Knowledge gained from the theoretical modules is required during the practical placements, and by the same token, expertise acquired during a practical placement also contributes to students' success in the theoretical modules.

Theoretical modules	Practical modules (Bundesbank students)				
	P1/P4B	P2/P4F	P3A/P4D	P3B/P4A	P4C/P4E
	Overview Deutsche Bundesbank, Interdisciplinary functions	Branches	Banking supervision	Operational, operative monetary policy and financial stability functions	Professional specialisation/exter nal institution
G1: Methodological foundations	X	X	Χ	Cannot be specified	Cannot be specified
G2: Introduction to business administration	X	X	Χ	(due to the	(due to the
G3: Introduction to the banking industry	X	Х	Х	heterogeneity of the recruiting authorities	heterogeneity of the recruiting authorities
G4: Introduction to the legal system: Basic Law, Civil Code and Commercial Code	X	Х	Х	accepting students)	accepting students)
G5: Principles of economics	0				
A1: Digital competences and quantitative methods	X		Х		
A2: Business administration: deepening of knowledge	0				
A3: Payment transactions		X			
A4: Credit and banking supervision			X		
A5: Monetary economics					
V1: Bank and central bank management	X		X		
V2: Analysis of financial statements and financial instruments	X		X		
V3: Financial markets and international economics			X		
V4: Organisation, management and human resources management	X	X			
V5: Banking, securities and insurance supervision	0		Х		
V6: Digital transformation and advanced analytics	X	0	0		
W1: Case studies on monetary policy and financial stability			X		
W2: Case studies on financial supervision	0		X		
W3: Case studies on payment transactions and financial market infrastructure	0	X			
W4: Corporate law, contract practice and contract management	Х		0		
W5: Financial econometrics	0		Х		
W6: Process and project management	X		0		

X Particularly important links

O Links of minor importance

Module	Overview of the Bundesbank – part 1
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P1-1
Academic level of the module	Prior to the foundation course
Туре	Mandatory module; quantitative content 0%, English-language content 0%, legal content 20%
ECTS credits	See P1-2
Duration	4 to 9 working days
Examination date	See P1-2
Form of examination	See P1-2
Teaching methods	Classes, assignments, independent study
Lecturer responsible for the module	Head tutor
Prerequisites	
(Potentially) followed by	G3 Introduction to the banking industry
Preliminary reading	Die Deutsche Bundesbank – Aufgabenfelder, rechtlicher Rahmen, Geschichte. Special publication by the Deutsche Bundesbank. Frankfurt am Main, 2006. Various notices and training materials.
Objectives of professional competence	The students will learn about the tasks, and core business areas of the Bundesbank and its role within the ESCB. They will understand their legal status as civil servants. They will also be familiar with basic rules and regulations, procedures and internal rules and regulations. They will gain an overview of the organisation, structure and tasks of their recruiting authority and, where applicable, how they are integrated into the system of the Federal authorities. They will understand the provisions of the General Equal Treatment Act (<i>Allgemeines Gleichbehandlungsgesetz</i>) and know the contact persons on the staff representation committees. They will gain initial experience using the Bundesbank's standard software
Syllabus	 Course of study including rules and regulations Organisation and tasks of the Bundesbank and the European System of Central Banks (ESCB) Core business areas of the Bundesbank Legal status of civil servants The General Equal Treatment Act Information technology at the Bundesbank Corruption prevention

Module	Overview of the Bundesbank including interdisciplinary functions –
Modale	part 2
	(Internal and branch operations of a regional office, directorates General
	[DG] Be, Bm, C, IT, K, P, Rv, Ve, R; Departments SI Strategy and
	Innovation, Directorate for Board and International Affairs, service centres,
	CiC, Compliance (5))
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P1-2
Academic level of the	Part of practical study 1, i.e. following the foundation course
module	
Туре	Mandatory module; quantitative content 10%, English-language content 0%, legal
	content 50%
ECTS credits	7 ECTS credits; including part 1 of practical study 1
Duration	Around 7 weeks (together with part 1-1)
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination
T SIIII SI SXAIIIIIAUSII	pursuant to Section 18(4) (75%) and a practical performance evaluation (25%).
	The examination during the period of practical studies can be carried out in the form
	of:
	1. an internship report;
	2. a presentation;
	3. a paper;
	4. completion of any other practical tasks typically performed in the Upper
	Intermediate Service;
	5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the
	involvement of the training staff and includes the key performance and competence
	criteria (commitment, analytical and practice-oriented thinking, social conduct,
	organisational and communication skills).
	The module examination refers to parts 1 and 2 of practical study 1.
Teaching methods	Tutoring sessions with practical studies tutors and training staff, shadowing
l reaching methods	activities at individual posts, practical assignment, independent study
Lecturer responsible for	Practical studies tutor
the module	Fractical studies tutor
Prerequisites	P1-1
(Potentially) followed by	Cannot be specified (due to the heterogeneity of acquired knowledge)
	This mandatory module is generally offered twice a year.
Frequency	, , ,
Applicability of the	The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and
	degree programs in public administration.
Connection to	This module has a particular thematic link G3.
other modules	
Preliminary reading	Bundesbank: internal rules and regulations.
	Recent publications by the DGs.
	Recent publications by BaFin.
	Relevant legal sources.
P1-2a, P1-2b, P1-2c	Students will acquire a general understanding of the key tasks and processes at a
Objectives of	regional office and, where applicable, a branch. They will gain an overview of the
professional	regional office's relationships with the various DGs of the Bundesbank and with the
competence for in-	branches attached to it. Students will be familiar with the key fields of activity in the
house operations of a	Upper Intermediate Service at the regional offices and the branches and will be able
regional office	to describe typical tasks. They will also learn the fundamentals of human resources
	management and the supervision of operations at the respective units and be
	familiar with the relevant internal rules and regulations.
	During their time at a regional office, students may spend between two and three
	weeks at a branch (syllabus of P1-2c).
P1-2a	Human Resources
Syllabus for the	- Staff relations
Human Resources and	- Internal staff services
Organisation Sections at	- Remuneration matters
a regional office	Organisation
	Overview of the structure and tasks of a regional office General operational organisation

- Construction matters, security, protection of property - Organising caps and cashless payments/account management - Division-wide controlling, operational statistics P1-2b Syllabus for the Administration Section at a regional office P1-2c Syllabus for in-house operations of a branch - Division to CMS - Introduction to the creation of teams and posts - Introduction to the creation of teams and posts - Introduction to the creation of teams and posts - Introduction to CMS - Introduction to the creation of teams and posts - Introduction to the management of teams and posts - Introduction to the creation of	10	
Syllabus for the Administrative Accounting, Asset Accounting and Master Data Administrative Accounting, Asset Accounting and Master Data Administrative Accounting Data Provision) P1-2		- Organising cash and cashless payments/account management
Syllabus for Inchouse operations of a branch	Syllabus for the Administration Section at a regional office	 Management of office and residential buildings Overview of other areas
Objectives for the Section Compliance (5) Compliance (6) P1-2d P1-2d Syllabus for the section Compliance (5) P1-2e Objectives of professional competence for DG C (including the Service Centre for Administrative Accounting Asset Accounting and Master Data Administrative Accounting Asset Accounting and Master Data Administrative Accounting Asset Accounting and Master Data Administrative Administrative Accounting Asset Accounting asset Accounting asset Accounting asset Accounting asset Accounting asset Accounting Data Provision) P1-2f Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2e Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2e Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2e Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2f Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2r Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2e Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-27 Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-27 Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-27 Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-27 Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-28 Students will gain an overview of the key tasks in DG Information Technology, the services it provides and the Bundesbank's IT infrastructure. They will assist in IT projects of professional competence for DG K (including the Regional Provision) P1-29 Students will gain an overview of the key tasks in DG Information Technology, the services it provides and the Bundesbank's IT infrastructure. They will assist in IT projects of professional competence for DG K (including the Regional	Syllabus for in-house operations of a branch	- Introduction to the creation of teams and posts
- Legal framework for task performance, knowledge of roles and processes - Participation in a compliance work area (e.g., prevention of money laundering and terrorism financing, prevention of corruption, or prevention of insider trading) P1-2e Objectives of professional competence for DG C (including the Service Centre for Administrative Accounting, Asset Accounting and Master Data Administrative Accounting and Master Data Administrative Accounting Data Provision) P1-2e Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2f Syllabus for DG C (including the Service Centre for Cost Accounting Data Provision) P1-2f Objectives of professional competence for DG IT P1-2f Syllabus for DG IT P1-2f Objectives of professional competence for DG IT P1-2g Objectives of DG IT P1-27g Objectives of DG IT P1-27g Objectives of DG IT P1-28 Syllabus for DG IT P1-29 Discover of DG IT P1-29 Communications (including the Begional Presidents' Offices) P1-29 - Legal framework for task performace, knowledge of roles and proversion of corruption, or prevention of teaching and teaching and processes in DG Controlling instruments and project work - Structure and tasks of DG IT - Processes (in particular procurements and project planning) - Methods for IT project work; involvement in IT projects - Structure and tasks of DG IT - Processes (in particular procurements and project, organise and carry out public relations events or design bank-internal communication media (in-house magazine, intranet). Th	Objectives for the Section Compliance (5)	Compliance department (5) and an awareness of compliance-related issues and their handling. They are aware of the importance - particularly the requirements and mechanisms - of a functioning compliance system for lawful task fulfilment and for protecting the reputation of the Bundesbank. The students know the key tasks and processes of the work area in which they are deployed and contribute as part of their collaboration.
Copetives of professional competence for DG C (including the Service Centre for Administrative Accounting, Asset Accounting and Master Data Administration and the Service Centre for Cost Accounting Data Provision) P1-2e	Syllabus for the section	 Legal framework for task performance, knowledge of roles and processes Participation in a compliance work area (e.g., prevention of money laundering and terrorism financing, prevention of corruption, or prevention of insider
Syllabus for DG C (including the Service Centre for Administrative Accounting, Asset Accounting and Master Data Administration and the Service Centre for Cost Accounting Data Provision) P1-2f Objectives of professional competence for DG IT P1-2f Syllabus for DG IT P1-2g Objectives of professional competence for DG IT P1-2f Syllabus for DG IT P1-2g Objectives of professional competence for DG IT P1-2f Syllabus for DG IT P1-2g Objectives of professional competence for DG IT P1-2g Objectives of professional Competence for DG K (including the Regional President's Offices) Structure and tasks of DG IT P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) - Controlling instruments and project work - Accounting structure at the Bundesbank - Bundesbank - Accounting structure at the Bundesbank and ID Information Technology, the services and the Bundesb	Objectives of professional competence for DG C (including the Service Centre for Administrative Accounting, Asset Accounting and Master Data Administration and the Service Centre for Cost Accounting Data	acquire an overview of the various activities of the Upper Intermediate Service in DG Controlling and become familiar with the most important controlling instruments used by the Bundesbank and the Eurosystem (e.g. strategic planning, cost accounting, general accounting, HR standards, standard cost accounting,
Objectives of professional competence for DG IT P1-2f Syllabus for DG IT P1-2g Objectives of professional competence for DG IT P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) P1-2g Objectives of professional competence for DG K (including the Regional Presidents' Offices) P1-2g Objectives of professional competence for DG K (including the Regional Presidents' Offices) P1-2g Structure and tasks of DG K (including the Regional Presidents' Offices) Structure and tasks of DG K (including the Regional Presidents' Offices)	P1-2e Syllabus for DG C (including the Service Centre for Administrative Accounting, Asset Accounting and Master Data Administration and the Service Centre for Cost Accounting Data Provision)	 Controlling instruments and processes Organisational methods and project work Accounting structure at the Bundesbank
Syllabus for DG IT P1-2g Objectives of professional competence for DG K (including the Regional President's Offices) President's Offices) Students will gain an overview of the key tasks and processes in DG Communications (including the Regional Presidents' Offices) and will help design and implement press and public relations projects, organise and carry out public relations events or design bank-internal communication media (in-house magazine, intranet). They will learn about the most important communications interfaces within the Bank and the importance of properly functioning external and internal communications procedures for the Bundesbank's image. They will be able to implement ideas and editorial contributions with technical support. P1-2g - Structure and tasks of DG K (including the Regional Presidents' Offices)	Objectives of professional competence for DG IT	services it provides and the Bundesbank's IT infrastructure. They will assist in IT projects and apply project and process management methods. They will recognise the significance of IT support for business processes and the necessity of cooperating closely with the business units.
Objectives of professional competence for DG K (including the Regional Presidents' Offices) and will help design and implement press and public relations projects, organise and carry out public relations events or design bank-internal communication media (in-house magazine, intranet). They will learn about the most important communications interfaces within the Bank and the importance of properly functioning external and internal communications procedures for the Bundesbank's image. They will be able to implement ideas and editorial contributions with technical support. P1-2g Communications (including the Regional Presidents' Offices) and will help design and implement press and public relations projects, organise and carry out public	Syllabus for DG IT	Processes (in particular procurements and project planning)Methods for IT project work; involvement in IT projects
	Objectives of professional competence for DG K (including the Regional President's Offices)	Communications (including the Regional Presidents' Offices) and will help design and implement press and public relations projects, organise and carry out public relations events or design bank-internal communication media (in-house magazine, intranet). They will learn about the most important communications interfaces within the Bank and the importance of properly functioning external and internal communications procedures for the Bundesbank's image. They will be able to implement ideas and editorial contributions with technical support.
	P1-2g	

Syllabus for DG K	- Processes (in particular organisation and implementation of internal and
(including the Regional	external educational activities)
President's Offices)	- Methods of information management (library, documentation/research,
	archives)
	- Organisational methods and project work
P1-2h	The students have an overview of the key tasks and processes in the Central
Objectives of	Personnel Department and particularly contribute to their implementation in the
professional	areas of personnel management and/or internal personnel services. The students
competence for DG P	are familiar with the areas of deployment for the higher service and are acquainted
(including the Service	with the basic methods of personnel work and typical tasks. They are also capable
Centre for Staff Loans	of addressing legal issues related to personnel work (e.g., labor law, collective
and the Service Centre	bargaining law).
for Travel and	The students have an overview of the key tasks and processes in the areas of
Relocation Expenses	training, further education, university, economic education, information
and Family Separation	management, and the Money Museum and contribute to their implementation. The
Allowance)	students are familiar with the areas of deployment for the higher service and are
7 2	acquainted with the basic methods of typical tasks. They are also capable of
	addressing legal issues related to internal and external educational tasks and
	specific career regulations. The students perform tasks within the framework of
	organizing and conducting training and further education seminars, economic
	education, activities in the Money Museum, as well as tasks in the archives and the
	library.
P1-2h	Structure and tasks of the Central Department P
Syllabus for DG P	- Legal framework for personnel matters
(including the Service	Personnel management tools and process flows, including interfaces with other
Centre for Staff Loans	departments
and the Service Centre	- Process flows (especially organization and implementation of internal and
for Travel and	external educational offerings as well as at the university)
Relocation Expenses	- Methods of information management (library, documentation/research,
and Family Separation	archives)
Allowance)	- Organizational methods and project work
P1-2i	Students will gain an overview of the key tasks and processes in DG Audit and will
Objectives of	assist in carrying them out. They will become familiar with relevant audit standards
professional	and, where possible, assist in planning, implementing, evaluating, reporting and
competence for DG Rv	documenting audit activities.
P1-2i	- Structure and tasks of DG Rv
Syllabus for DG Rv	- Audit methods
Cyliabas for BC 144	- Where possible, assistance in audit activities (in particular planning,
	implementation, evaluation, reporting or documentation)
P1-2j	Students will gain an overview of the key tasks and processes in DG Administration
Objectives of	and will assist in carrying them out. They will assist in facility and property
professional	management activities or those in the area of logistics management.
competence for DG Ve	management activities of those in the area of logistics management.
(including the Service	
Centre for Housing	
Administration and	
Holiday Homes)	
P1-2j	Structure and tasks of DG Ve including the respective service centre
Syllabus for DG Ve	Processes (in particular project and logistics planning)
(including the Service	- Assistance in project work
Centre for Housing	- Where possible, assistance in compiling instruction manuals
Administration and	This o possible, assistance in complining mondould mandals
Holiday Homes)	
P1-2k	The students have an overview of the key tasks and processes at the Centre for
Objectives of	International Central Bank Dialogue (CiC) and contribute to their implementation.
professional	The students are familiar with the areas of deployment for the higher service and
competence for Centre	are acquainted with the basic methods of typical tasks. The students perform tasks
for international central	within the framework of the International Central Bank Dialogue.
bank dialogue (CiC)	Main als hallowork of the international Contral Dank Dialogue.
P1-2k	- Structure and tasks of the CiC
Syllabus for	- Process flows within the CiC
Centre for international	- Organizational methods and project work
central bank dialogue	Organizational mothodo and project work
(CiC)	
(010)	

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P1-2l Objectives of professional competence for DG R	Students will obtain an overview of the tasks and the structure of DG Legal Services and develop an awareness for legal issues (identifying potential legal problems) as well as an ability to solve them (necessity for the involvement of DG R).
P1-2I Syllabus for DG R (including the Service Centre for Financial Sanctions) P1-2m	 Structure and tasks of DG R Processes (e.g. involving DG R in projects/tasks of other DGs, organising and carrying out preparatory work for meetings of the ECB Governing Council and the Legal Committee) Where possible, case studies/workshops The students are familiar with the key tasks and processes in the Directorate for
Objectives of professional competence for the Directorate for Board and International Affairs	Board and International Affairs (Area I) and contribute to their implementation. They recognize the importance and necessity of close collaboration with the specialized departments.
P1-2m Syllabus for Directorate for Board and International Affairs	 Structure and tasks of the Directorate for Board and International Affairs Processes (in particular meeting preparations, written procedures) Assistance in establishing procedures in the EURAS database Where possible, evaluations of business unit-specific projects/tests
P1-2n Objectives of professional competence for DG Be	Students will gain an overview of the key tasks and processes of procurements and will assist in carrying them out. They will contribute to the completion of tasks in the area of procurement.
P1-2n Syllabus of the DG Be	 Structure and tasks of the DG Be Processes (in particular in the context of procurements) Assistance in project work Where possible, assistance in compiling instruction manuals
P1-20 Objectives of professional competence for the DG Bm	Students will learn about the key tasks and processes of the DG Bm in management of constructions. They will participate in the work undertaken by IT product managers and, where possible, in IT projects. Students will learn about the activities of the Upper Intermediate Service and will be familiar with functions typically performed in Construction Management.
P1-20 Syllabus for DG Bm	 Structure and tasks of DG Bm Processes (standard cost account planning for Construction Management and IT product management) Where possible, assistance in project work Where possible, assistance in compiling user manuals and process descriptions
P1-2p Objectives of professional competence for DG SI	The students can develop a comprehensive overview of the key tasks and topics in the Central Department for Strategy & Innovations or delve deeper into current tasks. In doing so, the students can set their own priorities for the areas of Change (Transformation Management Office and Agile Build Team), Strategy & Control (Strategy Development and Project Portfolio Management), and Innovation (Innovation Work, Digital Services, International Cooperation, or Strategic Foresight) or become familiar with the overarching work between the teams. This allows for setting individual priorities—from methodological approaches (agile working, innovation and change management) to technological exploration and implementation, to work on the overall bank strategy
P1-2p Syllabus for DG SI	 Structure and tasks of DG SI Where possible, assistance in core tasks Support in overarching tasks from SI and Change

Module	Organisation and tasks of a Bundesbank branch
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P2
Academic level of the module	Part of practical study 2, i.e. following advanced study
Туре	Mandatory module; quantitative content 20%, English-language content 0%, legal content 50%
ECTS credits	7 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	2. a presentation;
	3. a paper; 4. completion of any other practical tasks typically performed in the Upper Intermediate Service; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence
	criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	
Frequency	This mandatory/optional module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	A3 Payment transactions (as a rule)
(Potentially) followed by	V4 Organisation, management and human resources management W3 Case studies on payment and financial market infrastructure
Objectives of	Students will learn about the tasks and processes at a branch, particularly in the
professional	cash handling area. They will gain an overview of the cash cycle and the
competence	significance of cash payments for the Bundesbank and will participate in the activities of typical posts in the Upper Intermediate Service. Students will also grasp the fundamentals of human resources management and the supervision of operations at branches and will become familiar with the most important internal rules and regulations in the Bundesbank's cash handling area.
Preliminary reading	Deutsche Bundesbank: internal rules and regulations.
, ,	Cash payment publications by the Bundesbank's DG Cash Management and the ECB.
Syllabus	Introduction to business operations and operational supervision
	- Division of tasks, operational structure
	- Criteria for the creation of teams/posts
	- Granting authorisation (e.g. key guide, CMS)
	- Observing operational procedures (e.g. working in areas under video
	surveillance, machine efficiency)
	- Explaining the internal control structure and compiling the operational
	supervision plan (e.g. charts on the structure of teams/inspections)
	- Analysis of potential weak points and corrective measures
	- Evaluations in CMS (CashEDI)
	Measures in the event of discrepancies in the cash handling area, processing liability issues and reimbursement claims
	- Complex issues regarding account management (e.g. in the event of overdrafts,
	breach of account terms and conditions, death, insolvency, attachment)
	- Approving measures with an impact on expenditure
	Introduction to human resources management/administration
	- Managing human resources (staff planning, holiday planning, etc.)
	- The branch working time model, alternative working time models
	- Internal communication (including team leader and team meetings)

- Introduction to human resources management (e.g. appraisals, employee feedback meetings, staff development, career guidance including further training, incentives)
- Handling complex HR issues (welfare, health management including in-house integration management, sanctions, staff representation, equal opportunities)

Introduction to security, site security, building management

- Defining the concept of site security (including security provisions)
- Liaising with local police; measures in the event of a robbery/emergency
- Occupational health and safety, workplace ergonomics and assessments of workplace hazards

Introduction to external contacts

- Meetings with customers, cultivation of contacts with local businesses (e.g. CIT companies, credit institutions)
- Events on counterfeit prevention (e.g. at schools, commercial enterprises, credit institutions)

Module	Organisation and tasks of banking supervision (DG B, Banking and Financial Supervision Division of a regional office, BaFin)
Degree programme Code	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Academic level of the	P3A Part of practical study 3, i.e. following in-depth study 1
module	Trait of practical study of her following in acpurotacy i
Туре	Mandatory module; quantitative content 20%, English-language content 20%, legal content 20%
ECTS credits	7 ECTS credits
Duration	Around 7 weeks
Examination date Form of examination	During the module Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	 a presentation; a paper; completion of any other practical tasks typically performed in the Upper Intermediate Service; an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and staff members, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This mandatory module is generally offered twice a year.
Applicability of the module	The knowledge is applicable to activities within the Deutsche Bundesbank as well as other central banks and supervisory authorities in the ESCB. The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	A4 Credit and banking supervision V2 Analysis of financial statements and financial instruments (as a rule)
(Potentially) followed by	W2 Case studies on financial supervision
Preliminary reading	Capital Requirements Regulation, Capital Requirements Directive IV as well as the relevant regulatory technical standards, implementing technical standards and guidelines of the European Banking Authority (EBA); SSM Manual of the European Central Bank (ECB) Banking Act and regulations relating to the Banking Act Key publications and papers on supervision, e.g. the Prudential Supervisory Guideline, Minimum Requirements for Risk Management (MaRisk) and for the Design of Recovery Plans (MaSan); BaFin notices on the granting of authorisation; Basel II and Basel III frameworks
Number of students	
P3Aa Objectives of professional competence (Bundesbank: DG Banking Supervision, and Banking and Financial Supervision Division of a regional office)	Students will discover how responsibilities are divided between the ECB, Bundesbank and BaFin and learn about the practical activities and processes of banking and financial services supervision at Central Office and/or the regional offices. They will gain an overview of the importance of supervision for the proper functioning of the financial sector and will be able to describe how the Bundesbank cooperates and interfaces with the ECB and BaFin. Regarding on-site inspections, ongoing supervision activities and the credit register for loans of €1 million or more, they will learn about typical tasks carried out by the Upper Intermediate Service, become familiar with the requirements of the most important posts and have an overview of the relevant legal regulations.
P3Aa Syllabus (Bundesbank: DG Banking Supervision, and Banking and Financial	- Tasks and functions of banking and financial services supervision in Germany and Europe (including instruments and reasons for the banking union, how the ECB, Bundesbank and BaFin cooperate when supervising significant institutions (SIs) and less significant institutions (LSIs)

Supervision Division of a regional office)	 Structure of banking supervision (including joint supervisory teams) at the ECB, BaFin and Bundesbank Instruments, processes and structures of JSTs (including risk assessment process, SREP assessment, monitoring reports) Competencies and processes relating to supervisory activities for LSIs as well as FDI institutions and institutions subject to the Payment Services Oversight Act; instruments of risk-based supervision (including reporting systems, financial statement audit reports, risk profiles, supervisory meetings, on-site inspections, evaluation of recovery plans) Processing strategic and interpretation issues on national and international prudential supervisory regulations/papers Evaluation of prudential information as a basis for the assessment of current and potential risks Studies on banking supervision issues on the basis of data from the reporting system Questioning in the context of ongoing supervision of banks and financial
P3Ab	services institutions Students will learn about the practical tasks and processes of banking, securities
Objectives of	and insurance supervision activities.
professional	Securities supervision: see BaFin's practical study module P3A
competence (BaFin)	Insurance supervision: see BaFin's practical study module P3B
	Banking supervision: see BaFin's practical study module P4B
P3Ab	Securities supervision: see BaFin's practical study module P3A
Syllabus (BaFin)	Insurance supervision: see BaFin's practical study module P3B
	Banking supervision: see BaFin's practical study module P4B

competence for DG Z

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	important tasks covered by the Upper Intermediate Service in the area of cashless payments and be trained in activities typical of posts in that area.
P3Bb	Structure and tasks of DG Z and the respective service centres
Syllabus for DG Z	- Sequence and monitoring of processes in cashless payments
	- Cash payment and securities transaction services of the Bundesbank
	- Where possible, shadowing selected payments projects
P3Bc	Students will acquire knowledge about the tasks, processes and cooperation in
Objectives of	both the operational and strategic issues areas of monetary policy. They will gain
professional	an overview of how the provision of central bank money impacts on economic
competence of DG M	activity, interest rates and the real economy. In addition, students will become
(including the Credit Assessment and	familiar with the technical settlement of money market operations and the framework provisions for these procedures. They will learn about the Bundesbank's
Securities Sections of a	trading activities.
regional office)	trading doublico.
P3Bc	- Structure and tasks of DG M as well as the Credit Assessment and Securities
Syllabus for DG M	Section of a regional office
(including the Credit	- Differences between the responsibilities performed in DG M and academic
Assessment and	tasks performed in DGs Vo and F as well as the operational activities carried
Securities Section of a	out by DGs Z and DS
regional office)	- Technical settlement of money market operations, including collateral
	management - Activities in the strategic issues area of monetary policy and its cooperation with
	the operational area
	- Impact of monetary policy activities on interest rates and the real economy
	- Trading activities of the Bundesbank
	- Market management and floor trading activities
	- Fundamentals of valuing and structuring fixed-interest money and capital
	market instruments, including the most important risk metrics
	- Portfolio management
	Role of the Bundesbank as a fiscal agent in central government debt management
	- Credit assessment system and its implementation in practice
	- Fundamentals of national and international project business
P3Bd	Students will learn about the tasks and processes in DG Data and Statistics and will
Objectives of	help to compile individual statistics. They will be trained in performing plausibility
professional	checks and preparing statistical data for various German and international statistics
competence for DG DS	and will be introduced to applications of statistical data evaluation programmes.
(including the Service Centre for External	
Sector Statistics and the	
Service Centre for	
External Sector Audits	
and Reporting Queries)	
P3Bd	- Structure and tasks of DG DS and the respective service centres
Syllabus for DG DS	- Overview of the value chain in compiling individual statistics, ranging from
(including the Service	operationalising the measurement target (including cooperation within the
Centre for External Sector Statistics and the	ESCB, with the Federal Statistical Office and international organisations), to collecting and preparing data, to presenting the results in publications and on
Service Centre for	user-oriented data platforms for internal (in particular, DGs Vo, F, B, Z) and
External Sector Audits	external units (e.g. ministries, research institutions)
and Reporting Queries)	- Significance of mathematical-statistical techniques for estimations, to
,	consolidate information and as part of time series analyses
P3Be	Students will gain an overview of the key tasks and processes in DG Financial
Objectives of	Stability and will assist in international working groups and/or observing and
professional	analysing financial markets and foreign economies.
competence for DG F P3Be	Conveying practical basic knowledge on financial stability
Syllabus for DG F	Conveying practical basic knowledge on financial stability Structure and tasks of DG F
Syllabas for DG I	- Processes (meeting preparations, committee work)
	- Assistance in preparing analyses, reports, presentations
P3Bf	Students will gain an overview of the tasks and processes in DG Economics.
Objectives of	Following on from the economic knowledge acquired during the theoretical studies,
professional	they see how the theoretical foundations are applied in practice in one of the
competence for DG Vo	Bundesbank's areas of work. In addition, students will help to prepare documents
1	for communicating economic data to various internal and external recipients

for communicating economic data to various internal and external recipients.

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P3Bf Syllabus for DG Vo	 Structure and tasks of DG Vo Overview of the methodologies employed by the DG (models, simulations, etc.) Significance of mathematical-statistical instruments for economic analyses Assistance in preparing analyses, reports, presentations
P3Bg Objectives of Risk Control (Area 2)	Students will be familiar with the structure and tasks of Risk Control (Area 2) and how these differ from the tasks performed by DGs M and Z. They will become acquainted with the key processes involved in assessing, managing and monitoring financial risks in the Bundesbank's various business areas.
P3Bg Syllabus for Risk Control (Area 2)	 Overview of cooperation in the Eurosystem concerning risk issues related to monetary policy (including purchase programmes, collateral framework, calculating haircuts, etc.) Role of Risk Control as part of the Bundesbank's trading and investment business (including terms of investment to contain risk as well as investment management using strategic benchmarks in the context of managing reserve assets, foreign exchange trading, euro-denominated portfolios and third-party mandates) Activities in Risk Control as part of asset management for third parties (including implementation of risk profiles and investment strategies) Overview of the methods for assessing the risk and earnings situation (traditional risk management methods (e.g. calculating and analysing risk metrics such as value-at-risk, expected shortfall, modified duration and stress tests)) Overview of Risk Control's IT and project landscape Operational implementation of monitoring risk and creditworthiness as well as reporting
P3Bh Objectives of professional competence for the Research Centre	Students will gain an overview of the activities and processes in the Research Centre. Depending on the area they work in, they will become acquainted either with the research process and work with microdata or with the work of the research services office, including management and coordination. They will have the opportunity to put the knowledge learned during the programme into practice. Students will assist with compiling and preparing statistics and documents for internal and external recipients. - Structure and tasks of the Research Centre
Syllabus for the Research Centre	 Overview of topics explored by the Research Centre and methods used Overview of surveys conducted by the Research Centre Significance of microdata for economic and econometric analyses Assistance in preparing and compiling statistics and survey projects Assistance in preparing analyses, reports and presentations Assisting researchers with research services, management and coordination (conferences, workshops, seminars, IT, research project database, internet and intranet presence, controlling, procurement and much more)

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Module	Organisation and tasks of areas with operational, operative monetary policy and financial stability functions DGs H, Z, M, F, Vo, Research Centre, DS; Risk Control (Area 2);
	service centres; Credit Assessment and Securities Section of a regional
	office
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4A
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Elective module; quantitative content 20%, English-language content 10%, legal content 20%
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper;
	 4. completion of any other practical tasks typically performed in the Upper Intermediate Service; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with
	the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	
Frequency	This elective module is generally offered twice a year.
Applicability of the module	The knowledge is applicable to activities within the Deutsche Bundesbank as well as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites (Potentially) followed by	Cannot be specified (due to the heterogeneity of the units accepting students) Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Deutsche Bundesbank: internal rules and regulations, monthly reports. Recent publications by the DGs.
P4Aa Objectives of professional competence for DG H (including the Service Centre for the Automation of Cash Processing and the Service Centre for Cash Management Logistics)	Students will learn about the tasks and processes in the Bundesbank's cash handling area. They will gain an overview of the overall cash cycle and be able to interpret the operational statistics pertaining to cash payments. Students will also gain an overview of all major tasks covered by the Upper Intermediate Service in the area of cash payments and be trained in activities typical of posts in the area of cash payments.
P4Aa Syllabus for DG H (including the Service Centre for the Automation of Cash Processing and the Service Centre for Cash Management Logistics)	 Structure and tasks of DG H and the respective service centres Sequence and monitoring of processes in cash payments Cash payment services of the Deutsche Bundesbank
P4Ab Objectives of professional competence for DG Z	Students will learn about the tasks and processes in the field of cashless payments at the Bundesbank. They will gain an overview of the payment systems in the national and international context. Students will also be acquainted with important tasks covered by the Upper Intermediate Service in the area of cashless payments and be trained in activities typical of posts in that area.

P4Ab Syllabus for DG Z	 Structure and tasks of DG Z and the respective service centres Sequence and monitoring of processes in cashless payments Cash payment and securities services of the Deutsche Bundesbank Where possible, observing and/or assisting in selected payments projects
P4Ac Objectives of professional competence of DG M (including the Credit Assessment and Securities Sections of a regional office)	Students will acquire knowledge about the tasks, processes and interaction in the realm of operational and policy issues of monetary policy. They will gain an overview of how the provision of central bank money impacts on economic activity, interest rates and the real economy. In addition, students will become familiar with the technical settlement of money market operations and the framework provisions for these procedures. They will learn about the Bundesbank's trading activities.
P4Ac Syllabus for DG M (including the Credit Assessment and Securities Section of a regional office)	 Structure and tasks of DG M as well as the Credit Assessment and Securities Section of a regional office Differences between the responsibilities performed in DG M and academic tasks in DGs Vo and F as well as the operational activities in DGs Z and DS Technical settlement of money market operations, including collateral management Activities in the monetary policy issues sector and their cooperation with the operational area Impact of monetary policy activities on interest rates and the real economy Trading activities of the Deutsche Bundesbank Market management and floor trading activities Fundamentals of valuing and structuring fixed-interest money and capital market instruments, including the most important risk metrics Portfolio management Role of the Deutsche Bundesbank as a fiscal agent in central government debt Credit assessment procedures and their implementation in practice Fundamentals of national and international project business
P4Ad Objectives of professional competence for DG DS (including the Service Centre for External Sector Statistics and the Service Centre for External Sector Audits and Reporting Queries)	Students will learn about the tasks and processes in DG Data and Statistics and will help to compile individual statistics. They will be trained in performing plausibility checks and preparing statistical data for various German and international statistics and will be introduced to applications of statistical data evaluation programmes.
P4Ad Syllabus for DG DS (including the Service Centre for External Sector Statistics and the Service Centre for External Sector Audits and Reporting Queries)	 Structure and tasks of DG DS and the respective service centres Overview of the value chain when compiling individual statistics, ranging from operationalising the measurement target (including cooperation within the ESCB, with the Federal Statistical Office and with international organisations), to collecting and preparing data, to presenting the results in publications and on user-oriented data platforms for internal (specifically DGs Vo, F, B, Z) and external units (e.g. ministries, research institutions) Significance of mathematical-statistical techniques for estimations, to consolidate information and as part of time series analyses
P4Ae Objectives of professional competence for DG F	Students will gain an overview of the key tasks and processes in DG Financial Stability and will assist in international working groups and/or observing and analysing financial markets and foreign economies.
P4Ae Syllabus for DG F	 Transmitting practical basic knowledge on financial stability Structure and tasks of DG F Processes (meeting preparations, committee work) Assistance in preparing analyses, reports, presentations
P4Af Objectives of professional competence for DG Vo	Students will gain an overview of the tasks and processes in DG Economics. Based on the economic knowledge acquired during the theoretical studies, they will learn about the practical application of theoretical foundations within the Bundesbank's remit. In addition, students will help to prepare documents for communicating economic data to various internal and external users.
P4Af Syllabus for DG Vo	 Structure and tasks of DG Vo Overview of the methodologies employed by the DG (models, simulations etc.) Significance of mathematical-statistical instruments for economic analyses

	- Assistance in preparing analyses, reports, presentations
P4Ag Objectives of Risk Control (Area 2)	Students will know the structure and tasks of Risk Control (Area 2) and how these differ from the tasks performed by DGs M and Z. They will become acquainted with the key processes involved in assessing, managing and monitoring financial
Control (Alea 2)	risks in the Bundesbank's various business areas.
P4Ag Syllabus for Risk Control (Area 2)	 Overview of work in the Eurosystem concerning risk issues related to monetary policy (including purchase programmes, collateral framework, calculating haircuts, etc.) Role of Risk Control as part of the Bundesbank's trading and investment business (including terms of investment to contain risk as well as investment management using strategic benchmarks in the context of managing foreign reserves, foreign exchange trading, euro-denominated portfolios and third-party mandates) Activities in the Policy Division as part of asset management for third parties (including implementation of risk profiles and investment strategies) Overview of the methods for assessing the risk and earnings situation (traditional risk management methods (e.g. calculating and analysing risk metrics such as value-at-risk, expected shortfall, modified duration and stress tests)) Overview of the Policy Division's IT and project landscape Operational implementation of risk and creditworthiness monitoring as well as reporting
P4Ah Objectives of	Students will gain an overview of the activities and processes in the Research Centre. Depending on the area they work in, they will become acquainted with
professional competence for the Research Centre	either the research process and working with microdata or with the work of the research services office including management and coordination. They will have the opportunity to put the knowledge acquired during their course into practice.
	Students will assist with compiling and preparing statistics and documents for internal and external customers.
P4Ah Syllabus for the Research Centre	 Structure and tasks of the Research Centre Overview of topics processed by the Research Centre and methods used Overview of surveys conducted by the Research Centre Significance of microdata for economic and econometric analyses Assistance in preparing and compiling statistics and survey projects Assistance in preparing analyses, reports and presentations Assisting researchers with research services, management and coordination (conferences, workshops, seminars, IT, research project database, internet and intranet presence, controlling, procurement and much more)

Module	Organisation and tasks of areas with interdisciplinary functions
module	(Internal and branch operations of a regional office, directorates General [DG] Be, Bm, C, IT, K, P, Rv, Ve, R, SI Strategy and Innovation; Directorate
	for Board and International Affairs, service centres, CiC, Compliance (5))
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4B
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Elective module; quantitative content 20%, English-language content 10%, legal content 10%
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of:
	1. an internship report;2. a presentation;3. a paper;
	4. completion of any other practical tasks typically performed in the Upper Intermediate Service; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational
Teaching methods	and communication skills). Tutoring sessions with practical studies tutors and training staff, training at individual
	posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This elective module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Deutsche Bundesbank: internal rules and regulations.
r reminiary reading	Recent publications by the DGs.
	Recent publications by BaFin.
	Relevant legal sources.
P4Ba, P4Bb, P4Bc	Students will acquire a general understanding of the key tasks and processes at a
Objectives of	regional office and, where applicable, a branch. They will gain an overview of the
professional	regional office's relationships with the various DGs of the Bundesbank and with the
competence for in-	branches attached to it. Students will be familiar with the key fields of activity in the
house operations of a	Upper Intermediate Service at the regional offices and the branches and will be
regional office	able to describe typical tasks. They will also learn the fundamentals of human
	resources management and the supervision of operations at the respective units
	and be familiar with the relevant internal rules and regulations. During their time at a
	regional office, students may spend between two and three weeks at a branch
	(syllabus of P1-2c).
P4Ba	Human Resources
Syllabus for the	- Staff relations
Human Resources and	- Internal staff services
Organisation Sections at	- Remuneration matters
a regional office	Organisation
	Overview of the structure and tasks of a regional office Conoral operational organization
	 General operational organisation Construction matters, security, protection of property
	Construction matters, security, protection of property Organising cash and cashless payments/account management Division-wide controlling, operational statistics
P4Bb	- Commercial facility management
. 100	- Management of office and residential buildings

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Syllabus for the	Overview of other areas
Administration Section	
at a regional office P4Bc	Introduction to each neumant energtions
Syllabus for	 Introduction to cash payment operations Introduction to the creation of teams and posts
in-house operations of a	- Introduction to CMS
branch	
P4Bd	The students have developed an overview of the tasks and structure of the
Objectives for the	Compliance department (5) and an awareness of compliance-related issues and
Section Compliance (5)	their handling. They are aware of the importance - particularly the requirements and mechanisms - of a functioning compliance system for lawful task fulfilment and for protecting the reputation of the Bundesbank. The students know the key tasks and
	processes of the work area in which they are deployed and contribute as part of their collaboration.
P4Bd	- Structure and tasks of the Compliance department in the Deutsche Bundesbank
Syllabus for the section Compliance (5)	 Legal framework for task performance, knowledge of roles and processes Participation in a compliance work area (e.g., prevention of money laundering and terrorism financing, prevention of corruption, or prevention of insider trading)
P4Be	Students will learn about the key tasks and processes in DG Controlling. They will
Objectives of	acquire an overview of the various activities of the Upper Intermediate Service in
professional competence for DG C	DG Controlling and become familiar with the most important controlling instruments used by the Bundesbank and the Eurosystem (e.g. strategic planning, cost
(including the Service	accounting, general accounting, HR standards, standard cost accounting,
Centre for	organisational consulting and analysis, job evaluation).
Administrative	
Accounting, Asset	
Accounting and Master	
Data Administration and	
the Service Centre for Cost Accounting Data	
Provision)	
P4Be	- Structure and tasks of DG C
Syllabus for	- Controlling instruments and processes
DG C	- Organisational methods and project work
(including the Service	- Accounting structure at the Bundesbank
Centre for	
Administrative Accounting, Asset	
Accounting and Master	
Data Administration and	
the Service Centre for	
Cost Accounting Data	
Provision)	
P4Bf Objectives of	Students will gain an overview of the key tasks in DG Information Technology, the
Objectives of professional	services it provides and the Bundesbank's IT infrastructure. They will assist in IT projects and apply project and process management methods. They will recognise
competence for DG IT	the significance of IT support for business processes and the necessity of
	cooperating closely with the business units.
P4Bf	- Structure and tasks of DG IT
Syllabus for	- Processes (in particular procurements and project planning)
DG IT	- Methods for IT project work; involvement in IT projects
P4Bg Objectives of	Students will gain an overview of the key tasks and processes in DG Communications (including the Regional Presidents' Offices) and will help design
professional	and implement press and public relations projects, organise and carry out public
competence for DG K	relations events or design bank-internal communication media (in-house magazine,
(including the Regional	intranet). They will learn about the most important communications interfaces within
President's Offices)	the Bank and the importance of properly functioning external and internal
	communications procedures for the Bundesbank's image. They will be able to
D.(D.	implement ideas and editorial contributions with technical support.
P4Bg	- Structure and tasks of DG K (including the Regional Presidents' Offices)
Syllabus for DG K (including the	 Methods and techniques of external and internal communication Processes (in particular organisation and implementation of internal and
Regional President's	external educational activities)
Offices)	CALOTTAL CAUCALIOTTAL ACTIVITIES)

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	 Methods of information management (library, documentation/research, archives)
	- Organisational methods and project work
P4Bh	The students have an overview of the key tasks and processes in the Central
Objectives of	Personnel Department and particularly contribute to their implementation in the
professional	areas of personnel management and/or internal personnel services. The students
competence for DG P	are familiar with the areas of deployment for the higher service and are acquainted
(including the Service	with the basic methods of personnel work and typical tasks. They are also capable
Centre for Staff Loans	of addressing legal issues related to personnel work (e.g., labor law, collective
and the Service Centre	bargaining law).
for Travel and	The students have an overview of the key tasks and processes in the areas of
Relocation Expenses	training, further education, university, economic education, information
and Family Separation	management, and the Money Museum and contribute to their implementation. The
Allowance)	students are familiar with the areas of deployment for the higher service and are
/ illewaries)	acquainted with the basic methods of typical tasks. They are also capable of
	addressing legal issues related to internal and external educational tasks and
	specific career regulations. The students perform tasks within the framework of
	organizing and conducting training and further education seminars, economic
	education, activities in the Money Museum, as well as tasks in the archives and the
	library.
P4Bh	- Structure and tasks of the Central Department P
Syllabus for	- Legal framework for personnel matters
DG P	- Personnel management tools and process flows, including interfaces with other
(including the Service	departments
Centre for Staff Loans	- Process flows (especially organization and implementation of internal and
and the Service Centre	external educational offerings as well as at the university)
for Travel and	- Methods of information management (library, documentation/research,
Relocation Expenses	archives)
and Family Separation	- Organizational methods and project work
Allowance)	
P4Bi	Students will gain an overview of the key tasks and processes in DG Audit and will
Objectives of	assist in carrying them out. They will become familiar with relevant audit standards
professional	and, where possible, assist in planning, implementing, evaluating, reporting and
competence for DG Rv	documenting audit activities.
P4Bi	- Structure and tasks of DG Rv
Syllabus for	- Audit methods
DG Rv	- Where possible, assistance in audit activities (in particular planning,
D.4.D.:	implementation, evaluation, reporting or documentation)
P4Bj	Students will gain an overview of the key tasks and processes in DG Administration
Objectives of	and will assist in carrying them out. They will assist in facility and property
professional	management activities or those in the area of logistics management.
competence for DG Ve	
(including the Service	
Centre for Housing	
Administration and	
Holiday Homes)	
P4Bj	- Structure and tasks of DG Ve including the respective service centre
Syllabus for	- Processes (in particular project and logistics planning)
DG Ve	- Assistance in project work
(including the Service	- Where possible, assistance in compiling instruction manuals
Centre	- Where possible, assistance in complaining instruction mandais
for Housing	
_	
Administration	
and Holiday Homes)	
P4Bk	The students have an overview of the key tasks and processes at the Centre for
Objectives of	International Central Bank Dialogue (CiC) and contribute to their implementation.
professional	The students are familiar with the areas of deployment for the higher service and
competence for Centre	are acquainted with the basic methods of typical tasks. The students perform tasks
for international central	within the framework of the International Central Bank Dialogue.
bank dialogue (CiC)	
P4Bk	- Structure and tasks of the CiC
Syllabus for	- Process flows within the CiC
Centre for international	- Organizational methods and project work
central bank dialogue	[]
(CiC)	
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P4BI Objectives of professional	Students will obtain an overview of the tasks and the structure of DG Legal Services and develop an awareness for legal issues (identifying potential legal problems) as well as an ability to solve them (necessity for the involvement of DG R).
competence for DG R	
P4BI	- Structure and tasks of DG R
Syllabus for	- Processes (e.g. involving DG R in projects/tasks of other DGs, organising and
DG R	carrying out preparatory work for meetings of the ECB Governing Council and
(including the Service	the Legal Committee)
Centre for Financial	- Where possible, case studies/workshops
Sanctions)	Throng possions, said status, memorph
P4Bm	The students are familiar with the key tasks and processes in the Directorate for
Objectives of	Board and International Affairs (Area I) and contribute to their implementation. They
professional	recognize the importance and necessity of close collaboration with the specialized
competence for the	departments.
Directorate for Board	departments.
and International Affairs	
P4Bm	Structure and tasks of the Directorate for Board and International Affairs
Syllabus for Directorate	- Processes (in particular meeting preparations, written procedures)
for Board and	- Assistance in establishing procedures in the EURAS database
International Affairs	- Where possible, evaluations of business unit-specific projects/tests
P4Bn	Students will gain an overview of the key tasks and processes of procurements and
Objectives of	will assist in carrying them out. They will contribute to the completion of tasks in the
professional	area of procurement.
	area or procurement.
competence for DG Be P4Bn	- Structure and tasks of the DG Be
Syllabus of the DG Be	- Processes (in particular in the context of procurements)
	- Assistance in project work
P4Bo	Where possible, assistance in compiling instruction manuals Students will learn about the key tasks and processes of the DG Bm in
Objectives of	management of constructions. They will participate in the work undertaken by IT
professional	product managers and, where possible, in IT projects. Students will learn about the
competence for the DG	activities of the Upper Intermediate Service and will be familiar with functions
Bm D4Da	typically performed in Construction Management.
P4Bo	- Structure and tasks of DG Bm
Syllabus for DG Bm	- Processes (standard cost account planning for Construction Management and
	IT product management)
	- Where possible, assistance in project work
P4Bp	- Where possible, assistance in compiling user manuals and process descriptions The students can develop a comprehensive overview of the key tasks and topics in
Objectives of	the Central Department for Strategy & Innovations or delve deeper into current
professional	tasks. In doing so, the students can set their own priorities for the areas of Change
competence for DG SI	(Transformation Management Office and Agile Build Team), Strategy & Control
competence for DG SI	(Strategy Development and Project Portfolio Management), and Innovation
	(Strategy Development and Project Portiono Management), and Innovation (Innovation Work, Digital Services, International Cooperation, or Strategic
	Foresight) or become familiar with the overarching work between the teams. This
	allows for setting individual priorities—from methodological approaches (agile
	working, innovation and change management) to technological exploration and
P4Bp	implementation, to work on the overall bank strategy - Structure and tasks of DG SI
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Syllabus for DG SI	- Where possible, assistance in core tasks
	- Support in overarching tasks from SI and Change

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Module	Internship at another suitable institution in Germany or abroad
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4C
Academic level of the	Part of practical study 4, i.e. following in-depth study 2
module	
Туре	Internship at an institution in Germany or abroad (only European countries (in the geographical meaning) – a list of suitable countries can be found in the Bundesbank's Main tutor's memo. Quantitative content 20%, English-language content 10% (higher percentage if module is completed abroad), legal content 10% (potentially higher)
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the Upper Intermediate Service;
Teaching methods	5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills). Tutoring sessions with practical studies tutors and training staff, training at individual
	posts, independent study
Lecturer responsible for the module	Main tutor at another institution
	This elective module is generally effered twice a year
Frequency Applicability of the	This elective module is generally offered twice a year. The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB. The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Recent publications by the host institution
Objectives of	Students will gain an overview of the main tasks of the host institution (e.g. central
professional	bank, banking supervisory authority or international organisation) and become
competence	familiar with the relationship in which this institution stands to the ESCB and the
•	Bundesbank. The University may specify additional objectives of professional
	competence for the student individually, depending on the host institution.
Syllabus	Cannot be specified due to the heterogeneity of the possible applications

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Module	Organisation and tasks of banking supervision (DG B, Banking and Financial Supervision Division of a regional office, BaFin)
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code Academic level of the	P4D Part of practical study 4, i.e. following in-depth study 2
module	
Туре	Elective module; quantitative content 20%, English-language content 20%, legal content 20%
ECTS credits	8 ECTS credits
Length of the module	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	2. a presentation;3. a paper;
	4. completion of any other practical tasks typically performed in the Upper Intermediate Service; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and staff members, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This elective module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB. The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	A4 Credit and banking supervision
	V2 Analysis of financial statements and financial instruments
	Generally, V5 Banking, securities and insurance supervision Generally, W2 Case studies on financial supervision
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Capital Requirements Regulation, Capital Requirements Directive IV as well as the relevant regulatory technical standards, implementing technical standards and guidelines of the European Banking Authority (EBA); SSM Manual of the European Central Bank (ECB); Banking Act and regulations relating to the Banking Act; key publications and
	papers on supervision, e.g. the Prudential Supervisory Guideline, Minimum Requirements for Risk Management (MaRisk) and for the Design of Recovery Plans (MaSan); BaFin notices on the granting of authorisation;
	Basel II and Basel III frameworks.
P4Da Objectives of professional competence (Bundesbank: DG Banking Supervision, and Banking and Financial Supervision Division of a regional	Students will discover how responsibilities are divided among the ECB, the Bundesbank and BaFin and learn the practical activities and processes of banking and financial services supervision at Central Office and/or the regional offices. They will gain an overview of the importance of banking supervision for the proper functioning of the financial sector and will be able to describe how the Bundesbank cooperates and interfaces with the ECB and BaFin. Regarding on-site inspections, off-site supervision activities and the credit register for loans of €1.5 million or more, they will be acquainted with typical tasks carried out by the Upper Intermediate Service, become familiar with the requirements of the most important posts and have an overview of the relevant legal regulations.
office) P4Da Syllabus (Bundesbank: DG Banking	Tasks and functions of banking and financial services supervision in Germany and Europe (including instruments of and reasons for the banking union and how the ECB, Bundesbank and BaFin cooperate when supervising significant institutions (SIs) and less significant institutions (LSIs))

Supervision, and Banking and Financial Supervision Division of a regional office)	 Set-up of banking supervision (including joint supervisory teams) at the ECB, BaFin and Bundesbank Instruments, processes and structures of JSTs (including risk assessment process, SREP assessment, monitoring reports) Competencies and processes relating to supervisory activities for LSIs as well as instruments of risk-based supervision (including reporting systems, financial statement audit reports, risk profiles, supervisory meetings, on-site inspections, evaluation of recovery plans) Processing policy and interpretation issues on national and international prudential supervisory regulations/papers Evaluation of prudential information as a basis for the assessment of current and potential risks Studies on banking supervision issues on the basis of data from the reporting system Requests for information in the context of off-site supervision of banks and financial services institutions
P4Db Objectives of professional competence (BaFin)	Students will learn the practical tasks and processes of banking, securities and insurance supervision activities. Securities supervision: see BaFin's practical study module P3A Insurance supervision: see BaFin's practical study module P3B Banking supervision: see BaFin's practical study module P4B
P4Db Syllabus (BaFin)	Securities supervision: see BaFin's practical study module P3A Insurance supervision: see BaFin's practical study module P3B Banking supervision: see BaFin's practical study module P4B

Module	Professional specialisation at the Bundesbank
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4E
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Elective module to specialise for the initial professional application at the Bundesbank. Quantitative content 20%, English-language content 10% (higher percentage if module is completed abroad), legal content 10% (potentially higher)
ECTS credits	8 ECTS credits
Length of the module	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	 a presentation; a paper; completion of any other practical tasks typically performed in the Upper Intermediate Service; an oral exam. The performance evaluation is carried out by the responsible training officer with the
	involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	
Frequency	This elective module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Deutsche Bundesbank: internal rules and regulations.
Objectives of	Students will learn about the key tasks and processes in their future workplace.
professional	Moreover, students will learn about the most important tasks carried out by the
competence	Upper Intermediate and the Higher Service in their division and the functional procedures within their unit.
Syllabus	Cannot be specified due to the heterogeneity of the possible applications

Module	Organisation and tasks of a Bundesbank branch
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4F
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Elective module; quantitative content 20%, English-language content 0%, legal content 50%
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant
	to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	2. a presentation;
	3. a paper;
	4. completion of any other practical tasks typically performed in the Upper Intermediate
	Service; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the
	involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This elective module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the Deutsche Bundesbank as well
module	as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and
	degree programs in public administration.
Prerequisites	A3 Payment transactions (as a rule)
	V4 Organisation, management and human resources management
(Potentially) followed by	W3 Case studies on payment and financial market infrastructure Cannot be specified (due to the heterogeneity of the acquired knowledge)
Objectives of professional	Students will learn about the tasks and processes at a branch, particularly in the cash
competence	handling area. They will gain an overview of the cash cycle and the significance of cash
	payments for the Bundesbank and will participate in the activities of typical posts in the
	Upper Intermediate Service. Students will also grasp the fundamentals of human
	resources management and the supervision of operations at branches and will become
	familiar with the most important internal rules and regulations in the Bundesbank's cash
	handling area.
Preliminary reading	Deutsche Bundesbank: internal rules and regulations.
	Cash payment publications by the Bundesbank's DG Cash Management and the ECB.
Syllabus	Introduction to business operations and operational supervision - Division of tasks, operational structure
	Division of tasks, operational structure Criteria for the creation of teams/posts
	- Granting authorisation (e.g. key guide, CMS)
	- Observing operational procedures (e.g. working in areas under video surveillance,
	machine efficiency)
	- Explaining the internal control structure and compiling the operational supervision
	plan (e.g. charts on the structure of teams/inspections)
	- Analysis of potential weak points and corrective measures
	- Evaluations in CMS (CashEDI)
	- Measures in the event of discrepancies in the cash handling area, processing
	liability issues and reimbursement claims - Complex issues regarding account management (e.g. in the event of overdrafts,
	- Complex issues regarding account management (e.g. in the event of overdrafts, breach of account terms and conditions, death, insolvency, attachment)
	- Approving measures with an impact on expenditure
	Introduction to human resources management/administration
	- Managing human resources (staff planning, holiday planning, etc.)
	- The branch working time model, alternative working time models
	- Internal communication (including team leader and team meetings)
	- Introduction to human resources management (e.g. appraisals, employee feedback
	meetings, staff development, career guidance including further training, incentives)

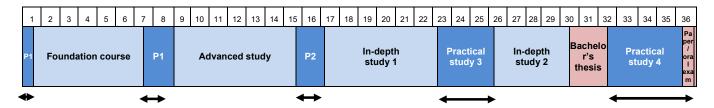
I	- Handling complex HR issues (welfare, health management including in-house
I	integration management, sanctions, staff representation, equal opportunities)
I	Introduction to security, site security, building management

- Defining the concept of site security (including security provisions)
- Liaising with local police; measures in the event of a robbery/emergency
- Occupational health and safety, workplace ergonomics and assessments of workplace hazards

Introduction to external contacts

- Meetings with customers, cultivation of contacts with local businesses (e.g. CIT companies, credit institutions)
- Events on counterfeit prevention (e.g. at schools, commercial enterprises, credit institutions)

3.2 Practical studies for Federal Financial Supervisory Authority (BaFin) students



Code	Module	Academic level	ECTS credits	Duratio n	Туре	Examination	
P1-1	Overview of the Federal Financial Supervisory Authority (BaFin) – part 1	Practical study 1 (part 1)	See part 2	2 months	Mandato ry module	In part 2	
P1-1	Overview of the Federal Financial Supervisory Authority (BaFin) – part 2	Practical study 1 (part 2)	7	(part 1: 4-9 days)	Mandato ry module	For each module students must	
P2	Organisation and tasks of banking supervision	Practical study 2	7	Around 7 weeks	Mandato ry module	take one examination consisting of	
РЗА	Organisation and tasks of securities supervision	Practical	7	Around 7 weeks	Mandato ry module	a practical performance evaluation (25%)	
Р3В	Organisation and tasks of insurance supervision	study 3	7	Around 7 weeks	Mandato ry module	and an examination (75%). The different forms of examination are: o internship	
P4A	rganisation and tasks of terdisciplinary supervisory areas nd of the Consumer Protection irectorate		8		Elective module		
P4B	Organisation and tasks of banking supervision (in-depth study)	Practical studies 4: Mandatory	8	Around 7 weeks	Mandato ry module	report; o completion of any other practical tasks	
P4C	Professional specialisation at the Federal Financial Supervisory Authority (BaFin) or internship at a different suitable institution in Germany and abroad	module P4B and 2 out of 3 elective	8	Around 7 weeks	Elective module	typically performed in the in the Upper Intermediate Service;	
P4D	Organisation and tasks of BaFin as the national resolution authority	modules	8	Around 7 weeks	Elective module	Service;presentation;paper ororalexamination.	

An overview of the main content-related links between theoretical and practical studies can be found on the following page.

Main content-related links between theoretical and practical studies

The overview shows the dual link between the main contents of the practical modules and those of the theoretical studies. The varied mix in practical studies offered by the different business units requires a broad theoretical knowledge base, which is covered by the modules of the theoretical studies. The modules are linked bilaterally throughout the course of study. Knowledge gained from the theoretical modules is required during the practical placements; by the same token, expertise built up during a practical placement also contributes to success in the theoretical study.

Modules of theoretical studies			I	Modules o	f practical studie	s (BaFin student	s)	
	P1 Overview of BaFin	P2/P4B Banking supervisi on	P3A Securitie s supervisi on	P3B Insuranc e supervisi on	P4A Interdisciplinary supervisory areas, consumer protection	P4B Organisation and tasks of banking supervision (indepth study)	P4C Professional specialisation/ external institution	P4D Organisation and tasks of BaFin as the national resolution authority
G1 Methodological foundations	Cannot be	Χ	Χ	Χ	Cannot be	Cannot be	Cannot be	Cannot be
G2 Introduction to business administration	specified (due to	Х	Х	Х	specified (due to the	specified (due to the	specified (due to the	specified (due to the
G3 Introduction to the banking industry	the	Х	Χ	Х	heterogeneity	heterogeneity	heterogeneity	heterogeneity
G4 Introduction to the legal system: Basic Law, Civil Code and Commercial Code	heterogen eity of the	Х	Х	Х	of the units accepting	of the units accepting	of the units accepting	of the units accepting
G5 Principles of economics	units				students)	students)	students)	students)
A1 Digital applications and quantitative methods	accepting students)	Х	Х	Х				
A2 Business administration: deepening of knowledge]							
A3 Payment transactions								
A4 Credit and banking supervision		Х	Χ	Х				
A5 Monetary economics								
V1 Bank and central bank management		Х	Х	Х				
V2 Analysis of financial statements and financial instruments		Х	Χ	Х				
V3 Financial markets and international economics		Х	Χ	Х				
V4 Organisation, management and human resources management								
V5 Banking, securities and insurance supervision		Х	Х	Х				
V6 Digital transformation and advanced analytics		0	0	0				
W1 Case studies on monetary policy and financial stability		X	Х	Х				
W2 Case studies on financial supervision		Х	Х	Х				
W3 Case studies on payment and financial market infrastructure		Х	Х	Х				
W4 Corporate law, contract practice and contract management		0	0					
W5 Financial econometrics		Х	Х	Х				
W6 Process and project management		0	0	0				

X particularly important links O links of secondary importance

Module	Overview of the Federal Financial Supervisory Authority (BaFin) – part 1
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P1-1
Academic level of the module	Prior to the foundation course
Туре	Mandatory module; quantitative content 0%, English-language content 0%, legal content 20%
ECTS credits	See P1-2
Duration	4 to 9 working days
Examination date	See P1-2
Form of examination	See P1-2
Teaching methods	Classes, assignments, independent study
Lecturer responsible for the module	Head tutor
Prerequisites	
(Potentially) followed by	G3 Introduction to the banking industry
Objectives of	Students will gain an overview of the tasks and organisation of BaFin. They will
professional competence	have received instruction on the corresponding legal bases and will be familiar with the relevant Rules of Procedure of the institution. In addition, students will understand BaFin's role in the context of national, European and international supervision. They will have a general understanding of legal and technical oversight by the Federal Ministry of Finance, the activities of the Administrative Council, Advisory Board, special advisory committees of the business units and the inspection and monitoring rights of the Federal Court of Auditors. The students will understand their legal status as civil servants. They will also become familiar with basic rules and regulations, procedures and internal directives. They will have the opportunity to become acquainted with the staff representation committee. Students will receive an introduction to BaFin's standard software.
Preliminary reading	Civil service law provisions, internal rules and regulations of BaFin
Syllabus	 Course of study including rules and regulations Overview of the tasks and organisation of BaFin including legal bases and BaFin's role in the context of national, European and international supervision Legal status of civil servants Introduction to BaFin's standard software

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Module	Overview of the Federal Financial Supervisory Authority (BaFin)	
	– part 2	
	(Z/IT and IF/GW)	
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme	
Code	P1-2	
Academic level of the	Part of practical study 1, i.e. following the foundation course	
module		
Туре	Mandatory module; quantitative content 10%, English-language content 0%, legal	
	content 50%	
ECTS credits	7 ECTS credits; including part 1 of practical study 1	
Duration	Around 7 weeks	
Examination date	During the module	
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper;	
	4. completion of any other practical tasks typically performed in the Upper Intermediate Service; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).	
Teaching methods	Practical training, independent study, working group on overarching issues	
Lecturer responsible for	Practical studies tutor	
the module		
Frequency	This mandatory module is generally offered twice a year.	
Applicability of the	The knowledge is applicable to activities within the BaFin as well as other central	
module	banks and supervisory authorities in the ESCB.	
	The module may be credited in other relevant dual finance degree programs and	
	degree programs in public administration.	
Prerequisites	P1-1	
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the units accepting students)	
General objectives of professional competence P 1-2	The students will learn about BaFin's structure and organisation and its role and function with regard to observing statutory responsibilities. They will be able to adequately process transactions by following internal provisions on co-signings, ICS and equity interests. Students will be able to recognise interfaces and initiate contact accordingly without instruction. They will know internal rules and instructions and will be able to process transactions independently via subsumption.	
Preliminary reading	Civil service and administrative provisions, internal rules and regulations of BaFin	
Syllabus P 1-2 SP/ZI 2/ZI 3/ZII 5	 Fundamentals of the structure and organisation of operations (e.g. ICS, organisational breakdown, Rules of Procedure) Career development (e.g. MAG, further training) Staff relations (fundamentals of civil service and collective bargaining law) 	
Syllabus P1-2 GW	 Fundamentals of institution-specific money laundering supervision Overview of the tasks of the anti-money laundering (GW) Directorate regarding the supervision of credit institutions, insurance companies, financial services institutions and payment institutions and the account access procedure Evaluation of audit reports, risk classification and introduction of supervisory measures Fundamentals of supervising leasing and factoring enterprises 	
Syllabus P1-2 IT	 IT security, IT controlling, IT strategy, assistance in procurement and granting activities Budget, ITR4Web, assistance in establishing and developing IT concepts Technical procedures, database applications, second level support for standard office applications, systems administration 	

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Syllabus	P1-2
IF	

- Fundamentals of the structure and organisation of operations (e.g. ICS, organisational breakdown, Rules of Procedure)
- Systematic foundations (definition of white, grey and black capital markets, banking and insurance supervision law as a special commercial law)
- Fundamentals of authorisation requirement pursuant to the Banking Act, Insurance Supervision Act and Payment Services Oversight Act (transactions requiring authorisation, exceptional circumstances, exemptions)
- Fundamentals of prosecuting unauthorised financial transactions pursuant to the Banking Act, Insurance Supervision Act and Payment Services Oversight Act (powers of investigation and intervention, criminal liability/cooperation with law enforcement authorities, cross-border cases/cooperation with foreign supervisory authorities)
- Overview of the system of appeal procedures (in conjunction with the prosecution of unauthorised financial transactions)

Module	Organisation and tasks of banking supervision
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P2
Academic level of the	Part of practical study 2, i.e. following the advanced study stage
module Type	Mandatory module; quantitative content 20%, English-language content 10%, legal
	content 20%
ECTS credits	7 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation;
	3. a paper;
	4. completion of any other practical tasks typically performed in the in the Upper Intermediate Service; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring session with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This mandatory module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the BaFin as well as other central
module	banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and
	degree programs in public administration.
Prerequisites (D. t. a.	A4 Credit and banking supervision (as a rule)
(Potentially) followed by	V5 Banking, securities and insurance supervision
General objectives of professional competence	Students will learn the practical tasks and processes of the BaFin's banking and financial supervision activities (Banking Supervision BA Directorate). They will gain an overview of the importance of banking supervision for the proper functioning of the banking sector. Students will learn about typical tasks carried out in the different BaFin divisions by the Upper Intermediate Service, be familiar with the requirements of the most important posts and have an overview of the relevant legal regulations. In particular, they will have been introduced to the main banking supervision processes 2-5 (processing of incoming information, active procurement and processing of information, invasive measures and decisions upon request).
Preliminary reading	Banking Act and regulations relating to the Banking Act; Capital Requirements Regulation, Capital Requirements Directive IV, as well as the relevant regulatory technical standards, implementing technical standards and guidelines of the European Banking Authority (EBA); Single Supervisory Mechanism (SSM) Regulation and SSM Manual of the European Central Bank; key publications and papers on supervision, e.g. the Prudential Supervisory
	Guideline, Minimum Requirements for Risk Management (MaRisk) and for the Design of Recovery Plans (MaSan); Basel II and Basel III frameworks.
Syllabus	 In the divisions: Tasks and functions of banking supervision in Germany Prudential supervisory instruments (including supervisory actions, risk profile, supervisory meetings, approval upon request or intervention) Processes and competencies relating to supervisory activities

Module	Organisation and tasks of securities supervision (Directorates WA 1 to WA 5)
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P3A
Academic level of the module	Part of practical study 3, i.e. following in-depth study 1
Туре	Mandatory module; quantitative content 50%, English-language content 10%, legal content 40%
ECTS credits	7 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of:
	 an internship report; a presentation; a paper; completion of any other practical tasks typically performed in the in the Upper
	Intermediate Service; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring session with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	
Frequency	This mandatory module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the BaFin as well as other central
module	banks and supervisory authorities in the ESCB. The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	As a rule, V5 Banking, securities and insurance supervision
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Objectives of	Students will obtain detailed knowledge of the statutory regulations relevant for
professional	securities supervision. In addition to the prerequisites and internal processes (e.g.
competence P3A	technology for preparing orders) for preparing information requests and other acts of administration pursuant to Section 4 of the Securities Trading Act (Wertpapierhandelsgesetz) and Section 40 of the Securities Acquisition and Takeover Act (Wertpapiererwerbs- und Übernahmegesetz), students will become familiar with procedures for supervisory examinations, processing requests and
	issuing authorisations.
Preliminary reading	Current publications and papers by the securities and financial supervision business units of BaFin
Syllabus P3A; WA 1	 Monitoring of notification and publication duties and transmission duties to the company register in the event of changes in the share of voting rights in listed public limited companies (Sections 21 et seq. of the Securities Trading Act) and notification and publication duties pursuant to Sections 30a to 30g of the Securities Trading Act Processing bid offers (mandatory, takeover and securities acquisition bids) for
	target companies throughout Germany, processing market supervision procedures and exemption procedures - Monitoring financial reporting requirements pursuant to Sections 37v et seq. of
O. IIL DOA 14/4 C	the Securities Trading Act
Syllabus P3A; WA 2	- Insider monitoring (stages of an insider trading investigation, cooperation with
	the police and the public prosecutor's office) - Monitoring ad hoc disclosure of German and foreign enterprises admitted to exchange trading
	- Policy issues in the area of clearing and settlement
	- Monitoring publication duties for directors' dealings
	- Monitoring the ban on short-selling
	- Review of securities and investment prospectuses

	- Monitoring market manipulation (stages of a market manipulation investigation, cooperation with the police and the public prosecutor's office)
	 Market analysis (preliminary inspection and analysis of potential insider and market manipulation breaches)
Syllabus P3A; WA 3	 Monitoring competence and transparency rules pursuant to Section 34b of the Securities Trading Act and notification requirements pursuant to Section 34c of the Securities Trading Act
	 Securities Trading Act supervision of organisational requirements at private banks, savings banks and cooperative banks
	 Banking Act and Securities Trading Act supervision of financial service providers including cross-border financial service providers and branches
Syllabus P3A; WA 4	- Supervision of investment management companies pursuant to German Investment Code
	 Supervision of collective investment undertakings pursuant to the German Investment Code (including closed-end funds, open-end real estate funds and hedge funds as well as open-end securities funds)
	- Supervision of depositories in terms of their depository function pursuant to the German Investment Code
Syllabus P3A; WA 5	 Review of securities and investment product prospectuses Monitoring analysts of financial instruments and competence and transparency rules pursuant to Section 34b of the Securities Trading Act and notification requirements pursuant to Section 34c of the Securities Trading Act Market supervision in the area of investment products and securities

Module	Organisation and tasks of insurance supervision
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P3B
Academic level of the module	Part of practical study 3, i.e. following in-depth study 1
Туре	Mandatory module; quantitative content 20%, English-language content 10%, legal content 10%
ECTS credits	7 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of:
	1. an internship report;2. a presentation;3. a paper;
	4. completion of any other practical tasks typically performed in the in the Upper Intermediate Service; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring session with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This mandatory module is generally offered twice a year.
Applicability of the module	The knowledge is applicable to activities within the BaFin as well as other central banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	Generally, V5 Banking, securities and insurance supervision
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
General objectives of professional competence for P3B	Students will learn the practical tasks and processes of insurance supervisors at BaFin (Insurance and Pension Funds Supervision VA Directorate). They will gain an overview of the importance of insurance supervision for the common good and for the proper functioning of the financial sector. Students will learn about typical tasks carried out in the different divisions by the Upper Intermediate Service, be familiar with the requirements of the most important tasks and have an overview of the relevant legal regulations. In the policy issues divisions, students will become familiar with typical tasks carried out in the Upper Intermediate Service and will have an overview of the relevant legal regulations.
Preliminary reading	Current publications and papers by the insurance and financial supervision business areas of BaFin
Syllabus P3B	 Structure of insurance supervision with three division types: undertaking-related divisions, competence-related divisions and policy issues divisions, as well as an outline of the VA Directorate Main features of operational supervision of life and non-life insurers and institutions for occupational retirement provision under Solvency I and Solvency II (including group supervision) Main features of the tasks of the policy issues divisions Case studies from ongoing supervision, overview of typical activities of the Upper Intermediate Service
	Case studies, e.g. preparing an analysis report of an insurance company's annual accounts

pr of Science, Zentralbankwesen/Central Banking degree programme practical study 4, i.e. following in-depth study 2 module; quantitative content 20%, English-language content 20%, legal 20% credits 7 weeks the module 18(5) of the GBankDVDV: the assessment consists of the examination at to Section 18(4) (75%) and a practical performance evaluation (25%).
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owledge is applicable to activities within the BaFin as well as other central
nd supervisory authorities in the ESCB. dule may be credited in other relevant dual finance degree programs and programs in public administration.
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rules and regulations of BaFin, publications relevant to the content being
s will learn about the structure and organisation of the IFR directorate and vities and objectives in the area of international policy/affairs. They will see interfaces with other BaFin units and the procedural integration of all ational units through the collegiate system. They will learn about the key tandard-setting bodies (FSB, BCBS, IAIS, IOSCO, Joint Forum) and the an supervisory structure (EBA, EIOPA, ESMA, ESRB) as well as their tasks ctions when setting and helping to shape international regulatory standards. Legard, students will also learn about the fundamentals of the European we procedure (including the Lamfalussy process). Students will know the key of international cooperation (e.g. MoUs, bilateral meetings) and technical ation (e.g. twinning).
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Syllabus P4Aa IFR	 Organisational and operational structure of the IFR directorate (including the collegiate system) Setting and helping to shape international regulatory standards (including architecture of the global standard-setting bodies and the European regulatory structure) Tasks/objectives in the context of bilateral and technical cooperation International Financial Reporting Standards Introduction to country risk analysis Complex financial instruments Impact assessment and financial stability analysis Identification and analysis of financial market risks and risks in the economic environment Key features of strategic management at BaFin
Objectives of	Upon completion of this module, students will be versed in the tasks of the QRM
professional competence P4Ab QRM	Directorate within the general context of BaFin, fundamentals of modelling risk types, of provisions and the implementation of regulatory requirements for quantifying risks using internal models (Basel II/III, Solvency 2), have an overview of technical aspects of risk modelling and know the fundamentals of application of risk models in risk management processes.
Syllabus P4Ab	- Introduction to the work of QRM
QRM	- Introduction to market, credit, actuarial and operational risks
	Approaches to risk modellingAspects of regulatory requirements for the modelling of risks
	- Aspects of applying risk models in risk management processes of
	banks/insurance companies
General objectives of professional competence P4Ac SR	Upon completion of the module, students will be versed in the tasks of the Strategy Development division within the overall context of BaFin and able to understand the development of strategies, objectives and measures as well as BaFin's management cycle. They will grasp the interplay between division management and BaFin's overall management. Furthermore, the students will know the composition and structure of the Strategy and Risk Committee and can assess the topics
	discussed there and their importance for the Executive Board. Students will also be aware of the importance of the organisational unit SR in supporting the Advisory Board, structuring and bundling strategic topics and taking charge of coordination during crises.
Course content P4Ac	- All-finance assurance strategies
SR	BaFin's management cycleDirectorate objectives, metrics and measures
	- Strategic management reporting system and strategic frameworks or guidelines
	 Audit planning Topics and functioning of the Strategy and Risk Committee Related processes within the organisational unit SR, ranging from assessing and developing BaFin positions to deriving specific recommendations for action. Importance of the Advisory Board and support by the organisational unit SR
Objectives of	Students will know the organisation and structure of the Consumer Protection
professional	Directorate and be able to understand its tasks and functions as well as their
competence P4Ad General Consumer	significance for financial supervision as a whole. They will understand the procedure for processing consumer complaints regarding regulated entities, gain an overview
Protection (VBS)	of the structures of deposit guarantee and investor compensation schemes as well as collateral funds and understand the role of legal bodies in financial supervision.
Syllabus P4Ad	- Organisational and operational structure of the VBS Directorate
VBS	- Fundamentals of consumer protection in financial supervision, in particular
	processing entries and complaints regarding regulated entities - Fundamentals and operating procedures of indemnification schemes, deposit
	guarantee schemes, collateral funds and investor compensation schemes
	- Structure and operating procedures of legal bodies in financial supervision,
	fundamentals and special features of legal remedies procedures and fundamentals of processing applications pursuant to the German Freedom of Information Act
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Modulo	Organization and tasks of hanking ourservision (in death study)
Module	Organisation and tasks of banking supervision (in-depth study)
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4B
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Mandatory module; quantitative content 20%, English-language content 10%, legal
Type	content 20%
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination
	pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of:
	1. an internship report;2. a presentation;
	3. a paper;
	4. completion of any other practical tasks typically performed in the in the Upper Intermediate Service;
	5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational
	and communication skills).
Teaching methods	Tutoring session with practical studies tutors and training staff, practical training at
reaching methods	individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	
Frequency	This mandatory module is generally offered twice a year.
Applicability of the	The knowledge is applicable to activities within the BaFin as well as other central
module	banks and supervisory authorities in the ESCB.
	The module may be credited in other relevant dual finance degree programs and
	degree programs in public administration.
Prerequisites	As a rule: A4 Credit and banking supervision
	V5 Banking, securities and insurance supervision
	W2 Case studies on financial supervision
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Banking Act and regulations relating to the Banking Act;
, ,	Capital Requirements Regulation, Capital Requirements Directive IV, as well as the relevant regulatory technical standards, implementing technical standards and guidelines of the European Banking Authority (EBA);
	Single Supervisory Mechanism (SSM) Regulation and SSM Manual of the European Central Bank;
	key publications and papers on supervision, e.g. Prudential Supervisory Guideline
	(Aufsichtsrichtlinie), the various minimum requirements; Basel II and Basel III frameworks.
Objectives of	In-depth study module. Students will learn the practical tasks and processes of the
professional	BaFin's banking and financial supervision activities (Banking Supervision BA
competence	Directorate). They will gain an overview of the importance of banking supervision for
	the proper functioning of the banking sector. Students will learn about typical tasks
	carried out in the different BaFin divisions by the Upper Intermediate Service, be
	familiar with the requirements of the most important posts and have an overview of
	the relevant legal regulations. In particular, they will have been introduced to the main banking supervision processes 2-5 (processing of incoming information, active
	procurement and processing of information, invasive measures and decisions upon
	request). In the policy issues divisions, students will become familiar with typical
	tasks carried out in the Upper Intermediate Service and will have an overview of the
	relevant legal regulations. In particular, they will have become acquainted with the
	main banking supervision processes 7 and 8 (general management and basic
	processes).
Syllabus	In the divisions:

- 11:
- Tasks, structure and functions of banking supervision in Germany and Europe (including SSM, Joint Supervisory Teams, how the ECB, Bundesbank and BaFin cooperate when supervising significant institutions (SIs) and less significant institutions (LSIs))
- Instruments, processes and structures of JSTs (including risk assessment process, SREP assessment, monitoring reports)
- Prudential supervisory instruments (including supervisory actions, risk profile, supervisory meetings, notification upon request or intervention)
- Processes and competencies relating to supervisory activities, taking into account the differences between SIs and LSIs (including reporting systems, financial statement audit reports, risk profiles, supervisory meetings, ordering special inspections, evaluation of recovery plans (group R))

In the policy issues divisions:

- Tasks and functions of banking supervision in Germany and Europe
- Policy and interpretation issues
- Legal developments
- Organisation of supervision

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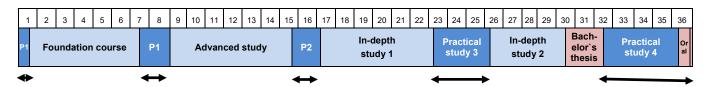
Module	Professional specialisation at the Federal Financial Supervisory Authority (BaFin) (specialising where possible for the initial professional application) or internship at a different suitable institution in Germany or abroad
Dograo programma	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Degree programme Code	P4C
Academic level of the	Part of practical study 4, i.e. following in-depth study 2
module	Tart of practical study 4, i.e. following in-deptit study 2
Туре	Elective module for specialising in the initial professional application at the Bundesbank, BaFin or a foreign institution. Quantitative content 20%, English-language content 10% (higher percentage if module is completed abroad), legal content 10% (or higher)
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation;
	3. a paper; 4. completion of any other practical tasks typically performed in the in the Upper Intermediate Service; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and practical thinking, social conduct, organisational
Teaching methods	and communication skills). Tutoring session with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This elective module is generally offered twice a year.
Applicability of the module	The knowledge is applicable to activities within the BaFin as well as other central banks and supervisory authorities in the ESCB. The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Internal rules and regulations of BaFin, publications relevant to the content being taught
P4Ca: Objectives of professional competence for specialising for the initial professional application	Students will learn about the key tasks and processes in their future workplace. Moreover, students will learn about the most important tasks carried out by the Upper Intermediate and the Higher Service in their division and the functional procedures within their unit.
P4Cb: Objectives of professional competence for internships outside the recruiting authority Syllabus P4C	Students will gain an overview of the key tasks of the recruiting institution and will be familiar with the links between BaFin and other relevant national and international organisations. The University may specify additional objectives of professional competence for the student individually, depending on the host institution. Cannot be specified (due to the variety of possible applications)
(Potentially) followed by	

Module	Organisation and tasks of BaFin as the national resolution authority
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4D
Academic level of the	Part of practical study 4, i.e. following in-depth study 2
module	
Туре	Elective module; quantitative content 20%, English-language content 10%, legal content 20%
ECTS credits	8 ECTS credits
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the in the Upper Intermediate Service;
	5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring session with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Frequency	This elective module is generally offered twice a year.
Applicability of the module	The knowledge is applicable to activities within the BaFin as well as other central banks and supervisory authorities in the ESCB. The module may be credited in other relevant dual finance degree programs and degree programs in public administration.
Prerequisites	As a rule: A4 Credit and banking supervision V1 Bank and central bank management V5 Banking, securities and insurance supervision V2 Analysis of financial statements and financial instruments
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Preliminary reading	Bank Recovery and Resolution Directive 2, Recovery and Resolution Act (Sanierungs- und Abwicklungsgesetz), Single Resolution Mechanism Regulation; Capital Requirements Regulation 2, Capital Requirements Directive IV (V), as well as the relevant regulatory technical standards, implementing technical standards and guidelines of the European Banking Authority; Single Supervisory Mechanism (SSM) Regulation and SSM Manual of the European Central Bank; key publications and papers on supervision, e.g. Prudential Supervisory Guideline (Aufsichtsrichtlinie), the various minimum requirements; Basel II and Basel III frameworks.
Objectives of professional competence	Students will learn about the practical tasks and processes of the resolution function. They will gain an overview of the importance of the national resolution authority for safeguarding financial stability. Students will learn about the distribution of responsibilities between the SRB and BaFin. They will gain an understanding of typical tasks, be familiar with the requirements and have an overview of the relevant legal regulations.

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Syllabus	Implementation of the resolution regime as part of the Single Resolution Mechanism (SRM), including:
	- policy issues and the development of methods and instruments for
	resolution planning and the resolution of banks and financial market infrastructures, e.g. regarding the minimum requirements for own funds and eligible securities (MREL) and the bail-in tool;
	 institution-specific resolution planning, e.g. preparation of resolution plans, as well as strategic corporate analysis, the determination of resolution strategies and the assessment of resolvability, including the identification of impediments to resolution;
	 preparation, i.e. design, implementation and further development of crisis processes, crisis infrastructure as well as crisis governance of the business
	area;
	 collection of the bank levy and management of the Restructuring Fund.

3.3 Practical studies for students of the Bank of Namibia (BoN)



Code	Module	Study stage	ECTS Credits	Duration	Туре	Examination
P1-1	Overview of the Bundesbank including interdisciplinary functions (Central Office of the Bundesbank)	Practical study 1 (part 1)	See part 2	Around 7 weeks (part 1:	Mandat ory module	In part 2
P1-2	Overview of the BoN units Human Resources and Finance & Administration	Practical study 1 (part 2)	7	4 - 9 days)		For each module students must take one examination
P2	Organisation and tasks of the BoN units National Payment Systems and Financial Surveillance	Practical study 2	7	Around 6 - 7 weeks	Mandat ory module	examination consisting of a performance
РЗА	Organisation and tasks of the BoN unit Banking Supervision		7	Around 6 - 7 weeks	Mandat ory module	evaluation (25%)
РЗВ	Organisation and tasks of the BoN units Financial Markets and Research & Financial Sector Development	Practical study 3	7	Around 6 - 7 weeks	Mandat ory module	an examination (75%). The different forms of
P4A	Organisation and tasks of the BoN unit Financial Stability and Macroprudential Surveillance		8	Around 7 - 8 weeks	Elective module	examination are:Internship reportCompleting other
P4B	Organisation and tasks of the BoN unit Currency Management & Banking Operations	Practical study 4:	8	Around 7 - 8 weeks	Elective module	practical tasks typically performed in the unit
P4C	Internship at another suitable institution in Namibia, Germany, or abroad	Three out of six elective	8	Around 7 - 8 weeks	Elective module	Presentation Paper
P4D	Organisation and tasks of the BoN unit Information Technology & Strategy, Projects, Transformation (SPT)	modules	8	Around 7 - 8 weeks	Elective module	Oral examination
P4E	Professional specialisation at the BoN		8	Around 7 - 8 weeks	Elective module	
P4F	Organisation and tasks of the BoN Oshakati branch		8	Around 7 - 8 weeks	Elective module	

An overview of the main content-related links between theoretical and practical studies can be found on the following page.

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Main content-related links between theoretical and practical studies

The overview shows the two-way link between the main contents of the practical modules and those of the theoretical modules. The wide range of business units covered by the practical modules requires a broad theoretical knowledge base, which is covered by the theoretical modules. There is a dovetailing of modules throughout the programme. Knowledge gained from the theoretical modules is required during the practical placements, and by the same token, expertise acquired during a practical placement also contributes to students' success in the theoretical modules.

Theoretical modules	Practical modules (Bundesbank students)				
	P1/P4B	P2/P4F	P3A/P4D	P3B/P4A	P4C/P4E
	Overview Deutsche Bundesbank, Interdisciplinary functions	Branches	Banking supervision	Operational, operative monetary policy and financial stability functions	Professional specialisation/exter nal institution
G1: Methodological foundations	Х	Х	Х	Cannot be specified	Cannot be specified
G2: Introduction to business administration	X	X	Χ	(due to the	(due to the
G3: Introduction to the banking industry	X	X	Χ	heterogeneity of the recruiting authorities	heterogeneity of the recruiting authorities
G4: Introduction to the legal system: Basic Law, Civil Code and Commercial Code	X	X	Χ	accepting students)	accepting students)
G5: Principles of economics	0				
A1: Digital applications and quantitative methods	Х		Х		
A2: Business administration: deepening of knowledge	0				
A3: Payment transactions		X			
A4: Credit and banking supervision			Χ		
A5: Monetary economics					
V1: Bank and central bank management	X		X		
V2: Analysis of financial statements and financial instruments	X		Χ		
V3: Financial markets and international economics			X		
V4: Organisation, management and human resources management	X	X			
V5: Banking, securities and insurance supervision	0		X		
V6: Digital transformation and advanced analytics	X	0	0		
W1: Case studies on monetary policy and financial stability			X		
W2: Case studies on financial supervision	0		X		
W3: Case studies on payment transactions and financial market infrastructure	0	X			
W4: Corporate law, contract practice and contract management	X		0		
W5: Financial econometrics	0		Χ		
W6: Process and project management	X		0		

X Particularly important links

O Links of minor importance

Module	Overview of the Bundesbank – part 1
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P1-1
Academic level of the module	Prior to the foundation course
Туре	Mandatory module
ECTS credits	See P1-2
Duration	4 to 9 working days
Examination date	See P1-2
Form of examination	See P1-2
Teaching methods	Classes, assignments, independent study
Lecturer responsible for the module	Head tutor
Prerequisites	
(Potentially) followed by	G3 Introduction to the banking industry
Preliminary reading	Die Deutsche Bundesbank – Aufgabenfelder, rechtlicher Rahmen, Geschichte. Special publication by the Deutsche Bundesbank. Frankfurt am Main, 2006. Various notices and training materials.
P1-1 Objectives of professional competence for the Bundesbank headquarters	The students will learn about the tasks, and core business areas of the Bundesbank and its role within the ESCB. They will understand the legal status of civil servants. They will also be familiar with basic rules and regulations, procedures and internal rules and regulations. They will gain an overview of the organisation, structure and tasks of their recruiting authority and, where applicable, how they are integrated into the system of the Federal authorities. They will understand the provisions of the General Equal Treatment Act and know the contact persons on the staff representation committees. They will gain initial experience using the Bundesbank's standard software.
P1-1 Syllabus for the Bundesbank headquarters	 Course of study including rules and regulations Organisation and tasks of the Bundesbank and the European System of Central Banks (ESCB) Core business areas of the Bundesbank Legal status of civil servants The General Equal Treatment Act Information technology at the Bundesbank Corruption prevention

Module	Overview of the BoN units Human Resources and Finance & Administration
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P1-2
Academic level of the module	Part of practical study 1, i.e. following the foundation course
Туре	Mandatory module
ECTS credits	7 ECTS credits; including part 1 of practical study 1
Duration	Around 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically for the unit; 5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational and communication skills). The module examination refers to parts 1 and 2 of practical study 1.
Teaching methods	Tutoring sessions with practical studies tutors and training staff, shadowing activities at individual posts, practical assignment, independent study
Lecturer responsible for	Practical studies tutor
the module	
Prerequisites	P1-1
(Potentially) followed by	Cannot be specified (due to the heterogeneity of acquired knowledge)
Number of students	All
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Preliminary reading	Recent publications by the BoN (part 2) and Bundesbank (part 1), relevant legal sources.
P1-2a Objectives of professional competence for the Human Resources unit of the BoN	Students will gain an overview of the key tasks and processes of the BoN Human Resources Department and will assist in carrying them out.
P1-2a Syllabus for the Human Resources unit of the BoN	 Students will contribute to the completion of the following tasks: Recruiting and Onboarding of new staff Employee and labour relations Organisational Culture Bank Code of Ethics and Conduct Remuneration and Benefits Administration Human Capacity Development Job Descriptions, analysis and evaluation Employee Wellbeing Occupational Health and Safety Human Resources Policies and Legislative Landscape HR technology tools HR Data Analysis Performance Management Talent Management and Succession Planning
P1-2b Objectives of professional competence for the unit Finance &	Students will gain an overview of the key tasks and processes of BoN Finance & Administration and assist in carrying them out. They will also be familiar with the unit's structure and main tasks.

1	2	
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Administration of the	
BoN	
P1-2b	- Students will contribute to the completion of the following tasks:
Syllabus for the unit	- Financial Accounting Overview and Processes
Finance &	- Management Accounting Overview and Processes
Administration of the	- Treasury Operational Overview and Processes
BoN	- Government Debt Overview and Processes
	- Understanding the Accounting Procedures Manual and the Procurement
	Procedures Manual
	- Understanding the Statements of Financial Position and Comprehensive Income of
	a Central Bank.
	- Procurement Management Overview Processes
	- Facility Management Overview
	- Assisting in reviewing operational processes; and guidelines and providing input in
	automation opportunities.
	- Assistance in project work
	- Management of BoN real estate and residential buildings

Module	Organisation and tasks of the BoN units National Payment Systems and
-	Financial Surveillance
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P2
Academic level of the module	Part of practical study 2, i.e. following advanced study
Туре	Mandatory module
ECTS credits	7 ECTS credits
Duration	Around 6 - 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper;
	4. completion of any other practical tasks in the unit;5. an oral exam.The performance evaluation is carried out by the responsible training officer with the
	involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational skills, and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible	Practical studies tutor
for the module	
Prerequisites	A3 Payment transactions (as a rule)
(Potentially) followed	V4 Organisation, management, and human resources management
by	W3 Case studies on payment and financial market infrastructure
Number of students	All
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Preliminary reading	Recent publications dealing with the Namibia Interbank Settlement System (NISS)
P2a: Objectives of professional competence in the BoN unit National Payment Systems- Oversight and Licensing	Students will learn about the tasks and processes at the BoN unit National Payment Systems. They will gain an overall understanding of the role of the NPS in the area of Digital Payments and Financial Market Infrastructure (FMI) operations and oversight management of Payment and Virtual Asset Services. Students will also grasp the fundamentals of payment systems oversight and will become familiar with the most important projects of the BoN National Payment Systems.
P2a: Syllabus in the BoN unit National Payment Systems	 Students will be acquainted with the following areas in payment systems: Understand the National Payment System legal framework, i.e the PSM Act of 2023 and relevant secondary regulations; Virtual Assets Act of 2023 and relevant rules and guidelines FMI and Digital Payments Oversight – how to conduct FMI and payment system onsite, report writing, and presentation of findings Offsite oversight – how to analyse offsite data and identify emerging risks, noncompliance, etc How to conduct a PSP and VASP licensing application – the end-to-end process FMI (NISS) operations Understand different payment instruments, payment service provider business models, and regulatory risk assessment The Bank's role in modernizing the National Payment System and leading such payment system modernization projects, i.e. Instant Payments in Namibia Understanding Payments Aspects of Financial Inclusion in the Namibian payment's ecosystem Open Banking and APIs – the Namibian context

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P2a; Syllabus in the	Students will be acquainted with the structure of the unit and important tasks covered by
BoN unit National	the staff of the BoN getting an overview of the Namibia Interbank Settlement System
Payments –	(NISS). They will be trained in activities typical of posts in that area, like:
Settlement System	-Processing tasks of the BoN in the Namibia Interbank Settlement System (NISS)
,	-Sequence, monitoring and oversight of processes in cashless payments
	-Policy issues around clearing (and, if possible, settlement)
	Where possible, observing and/or assisting in selected payments projects
Preliminary reading	Financial Surveillance / Exchange Control reading material
P2b:	Payment Systems Management Act
Objectives of	- All Determinations under NPS - https://www.bon.com.na/Bank/National-
professional	Payment-System/Legal-Framework/Determinations.aspx
•	- NPS Modernization Position
competence in the	
BoN unit Financial	- Currency and Exchanges Act, 1933 (Act No 9 of 1933),
Surveillance	- Exchange Control Regulation of 1961,
	- Currency and Exchanges Manual for Authorised Dealers, 2018 Exchange
	Control reading material
	- OECD Code of Liberalisation of Capital Movements
	 Changing patterns of capital flows, Bank for International Settlements, 2021
	ISBN 978-92-9259-474-9 (online)
	 OECD (2002) Forty Years' Experience with the OECD Code of Liberalisation of
	Capital
	- Balance of Payment Accounts of Namibia
	 Illicit Financial Flow, Report of the High-Level Panel on Illicit Financial Flows
	from Africa
Objectives of	- Students will learn the historical perspective of exchange control
professional	- Liberalisation of Capital Account
competence in the	- Management of Capital Flows from Common Monetary Area and International
BoN unit Financial	OECD perspectives including Asian countries
Surveillance	- Understanding Illicit Financial Flows Sustainable Development Goals agenda 16.4 to
	measure total inward and total outward of Illicit Financial Flows
	- Licensing and Supervision of Foreign Exchange Dealers
	- Criminal and administrative sanctions
P2b:	- Students will be acquainted with important tasks covered by the staff of the BoN in
Syllabus in the BoN	the Financial Surveillance/Exchange Control, like:
unit Surveillance	- Assess Balance of payments
unit Survemance	
	Measuring Financial Integration Macroeconomic volatility and capital flows
	- Pros and Cons of Financial Openness (Financial Crisis and policy responses)
	- Dealing with Capital Flows- Macroeconomic policy responses
	- Dealing with Capital lows- Financial Regulation and Prudential Policies
	- Dealing with Capital Flows – Capital Flows Management measures
	- Illicit Financial Flows – Methodological measurements
	- Processes for Licensing
	- Supervision Tools
	- Administrative processes and forfeiture of funds
1	- Criminal processes

Module	Organisation and tasks of the BoN unit Banking Supervision
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P3A
Academic level of the	Part of practical study 3, i.e. following in-depth study 1
module	
Туре	Mandatory module
ECTS credits	7 ECTS credits
Duration	Around 6 - 7 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the unit; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct,
	organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and staff members, practical training at individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	
Prerequisites	A4 Credit and banking supervision V2 Analysis of financial statements and financial instruments (as a rule)
(Potentially) followed by	W2 Case studies on financial supervision
Number of students	All
Applicability of the module	The knowledge applies to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Preliminary reading	Capital Requirements Regulation, Capital Requirements Directive IV of the EU; The Banking Institutions Act 2023 of the Parliament of Namibia and regulations relating to the Banking Act Bylaws issued under the Banking Institutions Act Circulars and guidelines, issued by the BoN
P3A Objectives of professional competence in the BoN unit Banking Supervision	Students will discover how responsibilities are divided between the banking institution or the microfinance banking institution, the BoN, the auditors and other state authorities of Nambia and learn about the practical activities and processes of banking and financial services supervision. They will gain an overview of the importance of supervision for the proper functioning of the financial sector and will be able to describe how the BoN cooperates and interfaces with the banking institutions, the auditors and other state authorities of Nambia. Regarding on-site inspections, ongoing supervision activities and the credit register, they will learn about typical tasks carried out by the unit, become familiar with the requirements of the most important posts and have an overview of the relevant legal regulations.
P3A: Syllabus in the BoN unit Banking Supervision	 Tasks and functions of banking supervision in Namibia Instruments, processes, competencies and structures of banking and microfinance institutions (including risk assessment process, monitoring reports) Instruments of risk-based supervision (including reporting systems, financial statement audit reports, risk profiles, supervisory meetings, on-site inspections, evaluation of recovery plans) Processing strategic and interpretation issues on national and international prudential supervisory regulations/papers Evaluation of prudential information as a basis for the assessment of risks Studies on banking supervision issues based on data from the reporting system Questioning in the context of ongoing supervision of banks institutions

Module	Organisation and tasks of the BoN units Financial Markets and Research & Financial Sector Development
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P3B
Academic level of the module	Part of practical study 3, i.e. following in-depth study 1
Туре	Mandatory module
ECTS credits	7 ECTS credits
Duration	Around 6 - 7 weeks
Examination date Form of examination	During the module Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the unit; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Prerequisites	Cannot be specified (due to the heterogeneity of the recruiting authorities accepting students)
(Potentially) followed by	Cannot be specified (due to the heterogeneity of acquired knowledge)
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Connections with other modules	G3, G5, A5, i.d.R. V3
(Potentially) followed by	P4A
Number of students	All
Basic literature	Recent publications, circulars and guidelines of the Bank of Namibia
P3Ba Objectives of professional competence of the BoN unit Financial Markets	Students will acquire knowledge about the tasks, processes and cooperation in both the operational and strategic issues areas of monetary policy. They will gain an overview of how the provision of central bank money impacts economic activity, interest rates, financial markets and the real sector economy. In addition, students will become familiar with the technical settlement of money market operations and the framework provisions for these procedures. Students will learn various activities related to foreign reserve management activities including trading, middle office and back-office functions.
P3Ba Syllabus for of the BoN unit Financial Markets	 Students will learn about and contribute to the completion of the following tasks: Structure and tasks of the unit Technical settlement of market operations, including collateral management Activities in the strategic issues area of monetary policy and its cooperation with the operational area Impact of monetary policy activities on interest rates and the real economy Trading activities and foreign management of the BoN Fundamentals of valuing and structuring fixed-interest money and capital market instruments, including the most important risk metrics Portfolio management Strategic and tactical asset allocation decisions Role of the BoN as a fiscal agent in central government debt management Liquidity management Fundamentals of national and international project business Students will gain an overview of the activities and processes in the BoN unit
Objectives of professional	Research & Financial Sector Development. Depending on the area they work in, they will become acquainted with either the research process or with microdata or

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competence of the BoN unit Research & Financial Sector	with the work of the Financial Sector Development groups, including management and coordination. They will have the opportunity to put the knowledge learned during the programme into practice. Students will assist with compiling and
Development	preparing statistics and documents for internal and external recipients.
P3Bb Syllabus for of the BoN unit Research & Financial Sector Development	 Students will learn about and contribute to the completion of the following tasks: Structure and tasks of the BoN unit Research & Financial Sector Development Overview of topics explored, and surveys conducted by the Research & Financial Sector Development Significance of microdata for economic and econometric analyses Assistance in preparing and compiling statistics and survey projects Assistance in preparing analyses, reports and presentations Assisting researchers with research services, management and coordination (conferences, workshops, seminars, IT, research project database, internet and intranet presence, controlling, procurement and much more)

Module	Organisation and tasks of the BoN unit Financial Stability and Macroprudential Surveillance
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4A
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Elective module
ECTS credits	8 ECTS credits
Duration	Around 7 – 8 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	2. a presentation;
	 3. a paper; 4. completion of any other practical tasks typically performed in the unit; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
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Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study
Lecturer responsible for	Practical studies tutor
the module	Tractical studies tutor
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	Cannot be specified (due to the heterogeneity of the acquired knowledge)
Applicability of the	The knowledge applies to activities within the Bank of Namibia as well as other
module	central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Prerequisites	G3, G5, A5, W1, W3, P3A
(Potentially) followed by	
Basic literature	Recent publications, circulars and guidelines of the Bank of Namibia
P4A Objectives of professional competence of the BoN unit Financial Stability and Macroprudential Surveillance	Students will gain an overview of the key tasks and processes of Financial Stability and Macroprudential Surveillance. The student will be exposed to different tasks in the unit more specifically to financial regulations, risk identification, and management to better prepare them for a career in the financial sector.
P4A Syllabus for the BoN unit Financial Stability and Macroprudential Surveillance	 Students will learn about and contribute to the completion of the following tasks: Structure and tasks of the BoN unit Financial Stability and Macroprudential Surveillance. Understand financial soundness indicators, stress testing and macroprudential tools for preparation of reports and presentations. Ability to assess and identify systemic risks. Preparation of data for economic and econometric analyses and be able to use statistical packages (Eviews, R, Python, Stata, Latex, BI tool and Matlab). Be able to conduct research on financial stability and macroprudential policy related topics.

Module	Organisation and tasks of the BoN unit Currency Management & Banking Operations
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4B
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Elective module
ECTS credits	8 ECTS credits
Duration	Around 7 – 8 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report;
	2. a presentation;3. a paper;
	4. completion of any other practical tasks typically performed in the unit;5. an oral exam.
	The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Prerequisites	A3 Payment transactions W3 Case studies on payment and financial market infrastructure
(Potentially) followed by	
Basic literature	Recent publications, circulars and guidelines of the Bank of Namibia
P4B Objectives of professional competence of the BoN unit Currency Management & Banking Operations	Students will gain an understanding of the Role that the Central Bank plays in Currency Management and the Regulatory Framework that underpins this responsibility. The fundamentals of Cash Operations and Supply Chain Management will also form a critical module of the syllabus. Students will further gain a thorough understanding of the functions of central banking operations with particular emphasis on the Mandate of being Banker to Government and Banker to Commercial banks, and become familiar with the critical systems, important rules and regulations that govern the Banking Operations environment. An appreciation of the entire spectrum of risks that the Currency and Banking Division is exposed to will also form a critical unit of the syllabus.
Syllabus for the BoN unit Currency	The role and importance of Cash as a legal tender in the Namibian Economy and its impact on the Sovereignty of the country. Understanding the Currency Regulatory Framework and Risk Management
Management & Banking Operations	Strategies Fundamentals of National Currency Production: Banknotes and Coins.
	- Understanding Cash Operations and Supply Chain Management.
	- Unpacking the concept of Seigniorage and its impact on the central bank.
	- Counterfeit Currency Management Strategies.
	- The Digital Gap in the Cash Operations.
	- Understanding sustainability and the environmental impact of Cash usage.
	 Financial inclusion, the future of Cash and the impact of emerging digital money. Monitoring and on-site Inspection of cash operations.
	Destruction and disposal of currency.
	- Amortization, Inventory and Accounting Management for Currency and Banking.
	- Introduction to Government Banking, Public and Bulk Cash Handling Operations.
	- Introduction to Information, Communication and Technology (ICT) in Currency and
	Banking Operations.
	- Health and safety measures in the workplace.
	- Currency and Banking Operations Stakeholder Management.

Module	Internship at another suitable institution in Namibia, Germany or abroad
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4C
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2
Туре	Internship at a financial institution in Namibia, in Germany or abroad. It is possible to spend this practical module at an office of the Deutsche Bundesbank in Germany, subject to the reception capacity of the office in question. Anyone interested in a practical module at the Bundesbank should apply to the central tutor of the Deutsche Bundesbank, H. Timo Straßenmeyer, in the form of a letter of motivation at least 6 months before the start of the practical module.
ECTS credits	8 ECTS credits
Duration	Around 7 – 8 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the unit;
	5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study
Lecturer responsible for the module	Main tutor at another institution
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	
Preliminary reading	Recent publications by the host institution
Objectives of professional competence	Students will gain an overview of the main tasks of the host institution (e.g. central bank, banking supervisory authority or international organisation). The University may specify additional objectives of professional competence for the student individually, depending on the host institution.
Syllabus	Cannot be specified due to the heterogeneity of the possible applications

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Modul	Organisation and tasks of the BoN unit Information Technology and SPT
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4B
Academic level of the	Part of practical study 4, i.e. following in-depth study 2
module	
Туре	Elective module
ECTS credits	8 ECTS credits
Duration	Around 7 – 8 weeks
Examination date	During the module
Form of examination Teaching methods	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the unit; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practice-oriented thinking, social conduct, organisational and communication skills). Tutoring sessions with practical studies tutors and training staff, practical training at individual posts, independent study
Lecturer responsible	Practical studies tutor
for the module	
Applicability of the	The knowledge is applicable to activities within the Bank of Namibia as well as other
module	central banks and supervisory authorities. The module may be credited to other
	relevant dual finance courses and public service courses.
Prerequisites	G1 Methodological foundations
'	A1 Quantitative methods
	Helpful, but not mandatory: V6 Digital transformation and advanced analytics
(Potentially) followed	
by	
Basic literature	Recent publications, circulars and guidelines of the Bank of Namibia
Objectives of	Students will learn about the roles and processes within the Bank of Namibia's (BoN)
professional competence of the BoN unit Information Technology	Information Technology and Strategy, Projects and Transformation (SPT) departments. They will gain an overview understanding of business systems, the IT infrastructure, and the most critical IT projects undertaken by the BoN. Additionally, students will receive practical exposure to activities in the Bank's Innovation Hub and the Automation Centre of Excellence (ACoE), where they will observe and engage with new innovations and automation efforts.
Syllabus for the RoM	
Syllabus for the BoN unit Information Technology and SPT	Students will learn about and contribute to the completion of the following tasks: - Process Redesign - Software Development (Python,java, RPA etc) - Al and Machine Learning - Data Analytics - Data Engineering - Business analysis - IT Infrastructure landscape & Server Administration - IT Operations (System Capacity Management, Availability Management, Patch Management, Configuration Management, and Disaster Recovery Operations) - Security Operations (Incident management, Vulnerability Management) - ERP (SAP Platform Management) - Web applications and Third-party products - Overview of Core central Banking system (EFT, RTGS, BOPCUS, etc)

Module	Professional specialisation at the BoN
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Code	P4E
Academic level of the	Part of practical study 4, i.e. following in-depth study 2
module	
Туре	Elective module to specialise for the initial professional application at the BoN
ECTS credits	8 ECTS credits
Length of the module	Around 7- 8 weeks
Examination date	During the module
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper;
	4. completion of any other practical tasks typically performed in the unit; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).
Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study
Lecturer responsible for the module	Practical studies tutor
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.
Prerequisites	Cannot be specified (due to the heterogeneity of the units accepting students)
(Potentially) followed by	
Preliminary reading	BoN internal rules, guidelines and regulations
Objectives of	Students will learn about the key tasks and processes in their future workplace. More-
professional	over, students will learn about the most important tasks and the functional procedures
competence	within their unit.
Syllabus	Cannot be specified due to the heterogeneity of the possible applications

Module	Organisation and tasks of the BoN Oshakati branch										
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme										
Code	P4E										
Academic level of the module	Part of practical study 4, i.e. following in-depth study 2										
Type	Elective module to specialise for the initial professional application at the BoN										
ECTS credits	8 ECTS credits										
Length of the module	Around 7- 8 weeks										
Examination date	During the module										
Form of examination	Section 18(5) of the GBankDVDV: the assessment consists of the examination pursuant to Section 18(4) (75%) and a practical performance evaluation (25%). The examination during the period of practical studies can be carried out in the form of: 1. an internship report; 2. a presentation; 3. a paper; 4. completion of any other practical tasks typically performed in the unit; 5. an oral exam. The performance evaluation is carried out by the responsible training officer with the										
	involvement of the training staff and includes the key performance and competence criteria (commitment, analytical and practical thinking, social conduct, organisational and communication skills).										
Teaching methods	Tutoring sessions with practical studies tutors and training staff, training at individual posts, independent study										
Lecturer responsible for the module	Practical studies tutor										
Applicability of the module	The knowledge is applicable to activities within the Bank of Namibia as well as other central banks and supervisory authorities. The module may be credited to other relevant dual finance courses and public service courses.										
Prerequisites	A3 Payment transactions W3 Case studies on payment and financial market infrastructure										
(Potentially) followed by											
Basic literature	Recent publications, circulars and guidelines of the Bank of Namibia										
P4E Objectives of professional competence of the BoN branch Oshakati	Students will learn about the tasks and processes at a branch, particularly in the cash handling area. They will gain an overview of the cash cycle and the significance of cash payments for the BoN and will participate in the activities of typical posts in the branch. Students will also grasp the fundamentals of human resources management and the supervision of operations at branches and will become familiar with the most important internal rules and regulations in the BoN's cash handling area.										
P4E Syllabus of the BoN branch Oshakati	Introduction to cash operations and operational supervision Division of tasks, operational structure; criteria for the creation of teams/posts Granting authorisation; Observing operational procedures Internal control structure and operational supervision plan Analysis of potential weak points and corrective measures Measures in the event of discrepancies in the cash handling area, processing liability issues and reimbursement claims Complex issues regarding account management (e.g. in the event of overdrafts, breach of account terms and conditions, death, insolvency, attachment) Introduction to human resources management/administration Managing human resources (staff planning, holiday planning, etc.) The branch working time model, alternative working time models Internal communication (including team leader and team meetings) Introduction to human resources management (e.g. appraisals, employee feedback meetings, staff development, career guidance including further training, incentives) Handling complex HR issues (health management including in-house integration management, sanctions, staff representation, equal opportunities) Introduction to security, site security, building management Defining the concept of site security (including security provisions) Liaising with local police; measures in the event of a robbery/emergency Occupational health and safety, workplace ergonomics and assessments of workplace hazards Events on counterfeit prevention										

4 Bachelor's thesis

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Study stage	Bachelor's thesis
Degree programme	Bachelor of Science, Zentralbankwesen/Central Banking degree programme
Study stage code	BT
Туре	Mandatory unit of the career development examination; the quantitative, English-language and legal content varies depending on the topic
ECTS credits	12 ECTS credits (Preparation of Bachelor's thesis: 10 ECTS credits; Defence of Bachelor's thesis: 2 ECTS credits)
Academic workload	360-hour workload
Duration	Preparation time: 8 weeks
Prerequisites	Bachelor's thesis: Pass the module examinations of the study stages pursuant to Section 12(2) sentence 1 numbers 1 to 7 of the GBankDVDV Defence of Bachelor's thesis: Pass the Bachelor's thesis pursuant to Section 20(1) of
Form of examination	the GBankDVDV Bachelor's thesis: Prepare an academic paper within 8 weeks (Section 19 of the GBankDVDV) Defence of Bachelor's thesis (Section 20 of the GBankDVDV): - 15-minute presentation of the main content and conclusions of the Bachelor's thesis - 15-minute oral examination with technical questions on the Bachelor's thesis and the presentation
Examination date	Bachelor's thesis: Following in-depth study 2 Defence of Bachelor's thesis: Following practical study 4
Academic objectives	In the Bachelor's thesis, students demonstrate their ability to work independently on a problem relevant to the Study contents using academic methods within a specified period of time. By defending their Bachelor's thesis, students will prove that they have acquired sound knowledge of the topic they worked on and that they are able to explain and substantiate the methods employed and results obtained.
Preliminary reading	Stickel-Wolf, C./Wolf, J.: Wissenschaftliches Arbeiten und Lerntechniken, latest edition. Vollmer, H. U./Brauner, D. J.: Erfolgreiches wissenschaftliches Arbeiten. Seminararbeit – Bachelor-/Masterarbeit – Doktorarbeit, latest edition.

The course concludes with a **final oral examination**. The final oral examination represents an opportunity for the students to prove within the context of an interdisciplinary examination meeting that they are able to interrelate the content of the theoretical study modules and to prove that the knowledge and skills they acquired are sufficient to meet the requirements of the Bundesbank's Upper Intermediate Service. The final oral examination lasts 15 minutes and can be carried out as a group examination (maximum group size – four people). A student is considered to have passed the career development examination when the number of module examinations prescribed in the curriculum, the Bachelor's thesis, the defence of the Bachelor's thesis and the final oral examination have each been passed or have been previously recognised. Upon successful completion of the course, students acquire 180 credits under the European Credit Transfer and Accumulation System.