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Faculty of Economic Sciences:

On 18.10.2016, following the resolution passed by the faculty council of the Faculty of Economic Sciences dated 29.06.2016, the presidential board of Georg-August University Göttingen approved the sixth amendment to the examination and study regulations for the doctoral programme in 'Economic Sciences' in the version contained in the announcement dated 27.03.2012 (official announcements I no. 10/2012, p. 320), last amended by a resolution of the presidential board dated 12.04.2016 (official announcements I no. 25/2016 p. 667), approved (§ 44 para 1 clause 2 NHG in the version contained in the announcement dated 26.02.2007 (Nds. GVBl. p. 69), last amended by Article 1 of the Act dated 15.12.2015 (Nds. GVBl. p. 384); §§ 9 para 3 clause 1, 37 para 1 clause 3 no. 5 b), 44 para 1 clause 3 NHG).

**Study and examination regulations
for the doctoral programme in economic sciences
at the University of Göttingen**

Part I

General Regulations

§ 1 Scope

(1) ¹These regulations provide for the doctoral studies and the doctoral process, including the award and withdrawal of the doctorate, within the framework of the doctoral programme in economic sciences at the Faculty of Economic Sciences at the University of Göttingen. ²The doctoral programme comprises the doctoral studies and the doctoral examination.

(2) Furthermore, these regulations provide for the award of the academic title and the award of honorary doctor of economic sciences (Dr rer. pol. h. c.) at the University of Göttingen.

§ 2 Objectives of the doctoral studies; purpose of the examinations

¹The aim of doctoral studies in economic sciences is to qualify the student to take on responsible tasks in research and teaching and extramural occupational fields. ²For this purpose, candidates are required to complete a research-oriented additional training in addition to their independent academic research, in which they demonstrate their command of the skills and methods associated with the subject. ³Students should be competent in classifying and applying the academic methodology of economic sciences and should additionally acquire specialised knowledge on an advanced, academic level. ⁴Furthermore, the skills required for interdisciplinary work, teamwork and effective methods of academic methodologies shall be fostered. ⁵Graduates shall be enabled to command, reflect critically upon and to apply recent theories and methods of economic sciences, to recognise their social relevance and to author new academic and specialised knowledge. ⁶They are hence qualified for positions of leadership in the professional world and are equally suitable for careers as scientists and scholars.

(2) Upon successful completion of the doctoral programme in economic sciences, the proof of qualification in specialised independent scientific work in a discipline covered by Faculty of Economic Sciences is considered verified.

§ 3 University degree

(1) The Faculty of Economic Sciences at the University of Göttingen awards the doctoral degree in economic sciences (Dr. rer. pol.).

(2) The honorary title of doctor of economic sciences (Dr. rer. pol. h.c.) can also be awarded following extraordinary doctoral studies.

§ 4 Standard course length, part-time studies

(1) The standard course length for the doctoral programme is six semesters.

(2) ¹The standard course length can be extended by up to two semesters for an important reason. ²An important reason is present especially if

- a) the effort involved in empirical work or work with source material is significantly greater than average
- b) the dissertation requires acquisition of foreign-language skills.

³The decision on the extension of the standard course length is made by the Dean of Studies upon application by the doctoral candidate in consultation with the thesis committee.

(3) ¹Students may apply to study part-time if there is an important reason. ²Full-time work in addition to the doctoral studies or childcare in particular are considered to represent an important reason. ³The

Dean of Studies rules on the application in consultation with the thesis committee. ⁴The provisions of the regulation governing part-time studies at the University of Göttingen shall apply accordingly.

§ 5 Examination components

- (1) The degree to be awarded as per § 3 para 1 is awarded on the basis of a doctoral examination.
- (2) ¹The doctoral examination comprises a scientific treatise (dissertation) and an oral examination. ²The examination is carried out as an oral defence.

§ 6 Graduate committee

- (1) ¹Besides the Dean of the Faculty, the graduate committee consists of three members of the professorial group, one of whom should belong to the Board of Directors of the Göttinger Graduate School of Social Sciences (GGG), and a doctoral graduate. ²The Dean of the Faculty can be represented by a professorial group member. ³Each of the committee members is appointed for two years by the mentioned groups in the faculty council of the Faculty of Economic Sciences. ⁴The Dean of the Faculty is responsible for the management.
- (2) The graduate committee supports the Dean of Studies in doctoral matters and reports to the faculty council regularly on the finished and on-going procedures.

§ 7 Thesis committee

- (1) ¹A thesis committee shall provide assistance during doctoral studies. ²It is convened individually for each doctoral candidate and usually consists of at least three members, including the first academic advisor, whose confirmation of supervision was the prerequisite for enrolment, as well as at least another authorised examiner. ³A member of the supervisory committee can be from a related subject and could also belong to another research institution of the University or outside the University (external member); in exceptional cases the graduate committee can allow the appointment of several external members, in particular in the context of multidisciplinary doctoral programmes or interdisciplinary dissertations. ⁴The members are appointed by the Dean of Studies in consultation with the first academic advisor at the latest six months following enrolment; the doctoral candidate has at the same time a right to recommendation, which does not lead to any legal entitlement to a preferred composition of the thesis committee. ⁵The first academic advisor has to be a full-time member of the professorial group of the Faculty of Economic Sciences of the University of Göttingen;

the graduate committee can make exceptions to this on application, in particular in the context of multidisciplinary doctoral programmes or interdisciplinary dissertations.

(2) ¹The thesis committee provides support and assistance to the doctoral candidate. ²Graduates must report regularly to the thesis committee, at least once each year, in detail about the status of the doctoral project undertaken.

(3) ¹Upon application of a member of the thesis committee or the doctoral student, the Dean of Studies can change the composition of the thesis committee. ²Any change of the first academic advisor is possible only if the assistance for the doctoral studies is no longer guaranteed due to his or her prolonged absence or continuation of support is unreasonable due to a breach in mutual trust.

§ 8 Withdrawal of an academic advisor

(1) If the first academic advisor of a dissertation leaves the Faculty, then he or she has the option to assist the dissertation until completion of the doctoral studies.

(2) If the first academic advisor cannot continue support due to health or other serious reasons, the Dean of Studies appoints a replacement in consultation with the doctoral candidate.

Part II

Nature and scope of the doctoral studies

§ 9 Scope of the doctoral studies

(1) ¹The doctoral studies as part of the doctoral programme in economic sciences is for 6 semesters as a rule. ²It comprises altogether 20 credits (1 credit = 30 hours scope of work) in accordance with the course overview (Appendix 1). ³The doctoral programme in economic sciences can also be completed on a part-time basis.

(2) ¹Appendix 4 can provide for differences in the nature and scope of individual programmes to be completed successfully in the doctoral programme than those specified in section 1. ²The appendix must contain a separate course overview for each programme.

(3) ¹The doctoral studies end with

- a) Withdrawal or revocation of the admission to the doctoral programme or
- b) the termination or lapse of a doctoral candidate relation.

²Withdrawal, revocation or termination may take place for an important reason. ³In general, an important reason is deemed prevalent if the doctoral student

- a) proves consistently unsuitable despite sufficient supervision,
- b) fails repeatedly or to a significant extent in fulfilling the tasks with which he or she has been charged, in particular if he or she has repeatedly and despite caution violates his or her reporting duties,
- c) has breached the regulation meant to ensure good academic practice,
- d) his or her admission or acceptance as doctoral candidate was obtained wrongfully by means of deception regarding the existence of the qualifications for entry,
and if
- e) the relationship of trust with the doctoral student is irretrievably breached for reasons for which the doctoral student is responsible for.

⁴Moreover, the doctoral studies end any time upon declaration in this respect by the doctoral candidate.

§ 10 Proof of academic achievement

(1) ¹Participation in the doctoral programme requires enrolment. ²Successful participation in the courses or events is assessed as "passed", grades are not issued. ³A corresponding certificate will be issued once the necessary credits are acquired and assessed; instead of a certificate, an entry can be made in the electronic examination management system. ⁴The safeguarding provisions for examination components shall otherwise apply accordingly.

(2) The following are possible assessment types: Presentation and seminar paper or discussion, moderation, report, written examination, supervised apprenticeship, and subject-specific examination types.

(3) ¹Upon application of a member of the thesis committee, external seminars that are based for instance, on department-specific and inter-site cooperation, can be approved. ²This also applies to further academic qualification offered by e.g. specialised research institutes. ³In this regard, the applicant should explain the field and rating (credits) of the assessment to be completed as well as the assessment type that has been taken. ⁴The graduate committee rules on the application.

(4) In the event that performances is not met for reasons for which the doctoral student does not bear responsibility, or if the provision of said performances is associated with undue severity, the graduate committee shall waive the demand to provide proof of individual performances by no later than admission to the doctoral examination, subject to application by the doctoral student.

(5) Proof of academic achievement is graded "failed" when left unattended or the examinee withdraws from attending the course, unless an important reason is shown.

(6) ¹If an examinee attempts to influence the result to his/her advantage or that of others through manipulation or use of prohibited means, the concerned credit is graded as "failed". ²Anyone found culpable of violating the proper code of proof of academic achievement can be dismissed from all further elements. ³The credit is then graded as "failed".

(7) ¹Failed credits can be retaken twice. ²A deadline to retake the credit must be offered at the earliest for during the semester following the failed credit.

(8) The graduate committee decides on the accreditation of external credits that are not part of the doctoral programme as examination prerequisites upon proposal by a member of the thesis committee, most commonly the first academic advisor.

§ 11 Thesis supervision

¹In consultation with the doctoral student, the thesis committee drafts an individualised curriculum, which proposes the doctoral programme credits to be completed by the date agreed by mutual consent. ²The thesis committee meets with the doctoral student at least once each year. ³The student shall report the status of his or her research work. ⁴The thesis committee discusses the questions of the research project with the doctoral student, advises him or her on further approach and drafts the individualised curriculum, if necessary.

Part III

Admission to the doctoral examination

§ 12 Prerequisites for admission to the doctoral examination

- (1) Admission to the doctoral examination has the prerequisite that the applicant
- a) has been enrolled in the doctoral programme in economic sciences as a doctoral candidate since the time of acceptance,
 - b) has properly completed the doctoral studies,
 - c) can prove unconditional admission to the doctoral programme,
 - d) has independently prepared a written academic paper (dissertation) and assures in writing,
 - da) that he or she has written it independently,
 - db) has not violated any of the obligations as per section 3,

dc) that the examination rules, including the principle of academic integrity – encompassing strict adherence to annotation requirements to ensure that intellectual property belonging to other persons is marked clearly in the dissertation – were adhered to, and

dd) no equivalent doctoral studies have been applied for elsewhere, and in this connection the submitted dissertation or parts thereof have not been presented elsewhere.

(2) Admission to the doctoral examination must be refused, or the admission suspended at any time, insofar as it was simultaneously applied for at another faculty or a different university.

(3) ¹In particular, candidates shall be ineligible for admission to the doctoral examination if they

a) did not personally author parts of the dissertation, and instead availed themselves of assistance from third parties in a manner that contradicts examination rules and the principles of academic integrity;

b) used the services of a paid agent for the purpose of obtaining information on doctorate opportunities;

c) in the context of the doctoral process and its preparation pay fees or provide paid or services or obtain paid services, that are contrary to the meaning and purpose of an examination procedure;

d) satisfy requirements because of which the doctoral examination could be declared void or the doctoral degree withdrawn.

²In these cases, a new application for admission to the doctoral examination is ruled out.

§ 13 Application for admission to the doctoral examination

(1) After completion of the dissertation, a written application for admission to the doctoral examination and commencement of the doctoral process should be submitted to the Dean of Studies at the Faculty of Economic Sciences.

(2) The following should be enclosed with the application:

a) at least four copies of the scientific treatise (dissertation)

b) the names of the reviewers proposed by the doctoral candidate, who as a rule must be members of the thesis committee,

c) proof of the successful completion of the examination prerequisites in accordance with the study regulation for the doctoral programme in economic sciences,

d) the declaration as per § 12 para 1 sub-para d)

e) clearance certificate from the Federal Central Criminal Register, that is not older than three months at the time of issue, and

f) in case of a joint dissertation, a detailed explanation about the candidate's own contribution to the work.

(3) ¹After submission of the application and review of the formal prerequisites, the Dean of Studies decides on the permission to take the doctoral examination. ²Once all prerequisites have been satisfied, he or she shall thereupon open the doctoral process and shall appoint the examination board as specified under § 17. In the admission to the doctoral examination, the doctoral candidate acquires the rightful claim to a review of the academic treatise he or she submitted.

(4) ¹The applicant receives a written notice regarding the admission, and in the case of rejection also information on legal remedies. ²The Dean of Studies notifies the first academic advisor of the admission.

(5) ¹Withdrawal of a doctoral application is permitted for as long as the doctoral process has not been terminated by notice of rejection on the dissertation or the oral examination has commenced. ²An attempt to take the doctoral examination does not count as 'taken' in case of a legal withdrawal.

Part IV Dissertation

§ 14 Dissertation, cumulative dissertation

(1) The dissertation topic is to be selected from a single discipline that is covered by the Faculty of Economic Sciences.

(2)¹ The dissertation must be an independent scientific work by the doctoral candidate. ²Any results that the doctoral student has or already published may be included in the dissertation; sources must be stated in the standard academic format.

(3) The dissertation may not have been or be used for any other doctoral or comparable process at a university in Germany or abroad, unless otherwise specified in these regulations.

(4) The dissertation can be drafted in German or English.

(5) ¹Submission of at least three thematically independent scientific contributions that were accepted or considered capable for publication according to an external scientific review procedure can also apply as dissertation. ²The suitability for publication is decided by the reviewers. For at least one of the contributions, the doctoral candidate should be the sole author. ³Depending on the number of contributions drafted by co-authors, the number of required contributions may rise. ⁴Depending on the quality of the contributions, the requirement for sole authorship of a contribution may be enforced. ⁵The graduate committee decides on this in consultation with the thesis committee. ⁶For a publication with several authors, it should be possible to clearly delimit and assess the contributions of the doctoral candidate. ⁷A declaration on the proportion of own work performed should also be submitted. ⁸Publications should be supplemented by a plausible introduction into the scientific questions underlying the publications as well as a summary, in which the own results are classified in the professional context and a list of literature. ⁹The accumulated dissertation should be presented in a bound form, § 13 section 2 letter a) applies accordingly.

§ 15 Publication before submission

¹Parts of the dissertation can be published in advance as contributions in publications with an external review procedure with approval of the first academic advisor. ²This is explicitly welcomed for joint dissertations.

§ 16 Insurance (terminated)

§ 17 Review, examination board

(1) ¹The Dean of Studies appoints two reviewers for the dissertation, who are authorised examiners in accordance with § 18 and are generally members of the thesis committee. ²In exceptional cases, he or she names additional reviewers, especially for interdisciplinary or inter-faculty work. ³The first reviewer is generally the first academic advisor.

(2) ¹The examination board is appointed by the Dean of Studies and consists of at least another reviewer for the oral examination besides the reviewers under section 1. ²This may differ in the event of an important reason. ³§ 7 para 1 clause 3 applies accordingly for participation of external reviewers.

(3) Upon convening the examination board, it must be ensured that the research areas dealt with in the dissertation are represented.

(4) In the event that additional reviewers or examiners are appointed over the course of the examination process, they shall also be appointed members of the examination board as specified under the provisions of this regulation.

(5) Abstentions are not permitted in rulings by the examination board.

§ 18 Authorisation to take the examination

(1) Authorised examinees are

a) Fellow members and members of the professorial group at the University of Göttingen.

b) Fellow habilitated members and habilitated associates qualified to teach at the University of Göttingen.

c) Honorary professors at the University of Göttingen.

(2) Former lecturers can also be appointed as reviewers or examiners up to three years after they have moved to another university.

(3) Besides the reviewers and examiners, a person who has passed an equivalent appointment procedure and is accordingly familiar with the understanding of tasks in research and teaching can also be appointed.

(4) In established exceptional cases, apart from the reviewer or examiner, a doctoral graduate member of a university or a non-university research institution can also be appointed.

(5) One of the reviewers must be a full-time member of the professorial group of the Faculty of Economic Sciences at the University of Göttingen.

§ 19 Review

(1) Each reviewer should produce an assessment of the dissertation within three months after filing the dissertation and propose:

- a) To accept the dissertation,
- b) To reject the dissertation, or
- c) To return the dissertation for revision, if he or she would recommend a rejection otherwise.

(2) ¹If acceptance of the dissertation is recommended, the work must be graded (cf. § 26 section 2).

²For revision, an appropriate deadline is to be set by the examination board.

(3) A suitable software can be used to check the submitted dissertation, to determine whether the examination rules including academic integrity were observed in preparing it, in particular with the help of software to detect plagiarism to verify text adopted passages which have been not been acknowledged or for other sources.

§ 20 Acceptance or rejection of the dissertation

(1) If all reviewers agree to acceptance and/or rejection the dissertation, it is accepted or rejected.

(2) ¹If all reviewers do not agree between acceptance or rejection, the examination board decides on the basis of another review. ²The additional evaluator becomes a member of the examination board; the additional review is to be treated in the same manner as the reviews previously carried out.

(3) If a dissertation returned for revision is not resubmitted within the deadline set by the examination board, it is considered rejected.

(4) ¹In the case of rejection, the doctoral examination is considered failed. ²Reapplication for admission to the doctoral examination is possible on one occasion and after a period of at least one year only. ³In this case, a new or considerably improved dissertation should be submitted. ⁴In doing this, the unsuccessful attempt should be notified. ⁵If this dissertation is also rejected, then the doctoral examination is definitively failed.

§ 21 Reassessment

(1) Following receipt of the review and the proposals as specified under § 19 section 1, the Dean of Studies notifies the authorised examining members at the faculty of the received votes and sets a deadline of at least five working days during the period of lecture or ten working days during the lecture-free period to consider the review.

(2) ¹If an authorised examiner of the Faculty objects to the grading, the Dean of Studies can appoint another reviewer for the dissertation. ²The additional evaluator becomes a member of the examination board; the additional review is to be treated in the same manner as the reviews previously carried out.

§ 22 Reference copy

A submitted copy of the dissertation remains with all reviews in the faculty archive.

Part IV Oral examination

§ 23 Form of the oral examination

- (1) The examination is carried out as an oral defense.
- (2) Examination language is German or English.

§ 24 Date

¹Date for the oral examination is set by the Dean of Studies after completion of the procedure under §§ 17 to 20. ²The oral examination should not be later than 6 weeks after receipt of the review.

§ 25 Oral examination

- (1) In the oral examination, the doctoral candidate should prove that he or she has thorough specialised knowledge and that he or she can independently apply reason to scientific problems.
 - (2) ¹The oral defense will be for a period of 60 to 90 minutes. ²It consists of two parts. ³In the first part, the doctoral candidate shall explain the objectives and results of her or his dissertation in a presentation of 20 to 30 minutes. ⁴In the second part of the oral defense, the doctoral candidate shall face questions put by the examiner relating to the subject areas and methodical questions concerning the speciality as a whole, also on the larger scientific context that includes the dissertation.
 - (3) ¹The oral examination is conducted by the examination board. ²The examination board can permit questions to be addressed to the candidate by the audience present from the university.
 - (4) The Dean of Studies appoints the third examiner as the chairperson of the examination board.
 - (5) ¹The oral defense is open to the university public. ²Upon application by the doctoral candidate, the university public may be excluded. ³Ruling on this application is made by the examinations board.
- ⁴The authorised examiners belonging to the graduate committee have the right to participate in the

oral defense and advise the examination board on the review, even in the event the public of the university is excluded.

(6) A written record on the course of the oral examination should be prepared by a member of the examination board.

§ 26 Individual and overall grades of the doctoral studies

(1) Following the oral examination, the examination board decides whether the entire examination has been passed.

(2) ¹The following can be awarded as grades of the single reviews for the dissertation and for the oral examination:

summa cum laude (excellent)	(0),
magna cum laude (very good)	(1),
cum laude (good)	(2),
rite (passed).	(3).

²The grade values can be diminished (with the exception of the grade summa cum laude) by the value 0.3 respectively, or can be increased (with exception of the grade rite) by the value 0.3.

(3) The grade of the dissertation results from the arithmetic average of the grades given by each of the reviewers:

up to and including 0.50	summa cum laude,
up to and including 1.50	magna cum laude,
up to and including 2.50	cum laude,
up to and including 3.00	rite.

(4) ¹The current average grade results as a weighted arithmetic average from the grade of the oral examination and the grade of the dissertation. ²The dissertation with the factor 2 and the oral examination with the factor 1 are included in the calculation. ³The provisions of section 3 apply correspondingly to the review of the current average grade.

(5) ¹The result of the doctoral examination is notified to the doctoral candidate immediately after the assessment. ²In the event of passing, the candidate is informed immediately that the doctoral degree must not be used before completion of the doctoral studies. ³Upon application, the doctoral candidate receives a written certificate that the examination has been passed; this must also detail that the doctoral degree may not be used before completion of the doctoral studies.

§ 27 Failure, discontinuance, retake of the oral examination

(1) ¹Insufficient knowledge shown in the oral examination is assessed as failed. ²If the examinee fails to attend the examination or withdraws from the examination, then the examination is considered failed, unless an important reason occurs. ³Important reasons must be notified immediately in writing to the examination board and the reason must be plausible. ⁴In case of withdrawal or failure to attend due to illness, a medical certificate specifying the expected duration of the disease causing the inability to take the examination should be produced immediately, unless the illness is obvious. ⁵If the reasons are accepted, a new examination date is scheduled.

(2) ¹A failed oral examination can be repeated within a year upon application by the doctoral candidate. ²A second retake is not permitted; unsuccessful exams in a doctoral process at other colleges and universities are considered as attempts in the examination of the doctoral programme in economic sciences of the University of Göttingen. ³If the oral examination has been irrevocably failed, the doctoral examination shall also be deemed irrevocably unsuccessful.

§ 28 Safeguarding provisions

(1) ¹If the examinee makes it plausible that he or she is not in a position (e.g. due to long-lasting or permanent physical impairment) to complete the examination components entirely or partly in the intended form, then he or she should be able to complete the examination components in an extended processing time or equivalent examination components in another form. ²A original medical certificate from a specialist physician must be produced. ³Submitting a copy is not sufficient. ⁴**The examination board makes the ruling on this issue.**

(2) ¹Insofar as compliance with the deadlines for the initial registration for examinations, retake, reasons for not attending the examinations and compliance with processing times for examination papers are affected, the illness of the examinee and the necessary sole care by one or a near relative are considered equivalent. ²**Close relatives are children, parents, grandparents, married partner, and life partner.**

(3) ¹Study or examination components may not be fulfilled by pregnant women, if the life or health of the mother or child is endangered according to the medical certificate. ²Furthermore, the safeguarding provisions according to §§ 3, 4, 6 and 8 of the Maternity Protection Act as well as the deadlines and provisions under § 1 sections 1 or 3 no. 3 or in special cases of hardship, section 5 as well as §§ 15 and 16 of the Federal Parental Allowance and Parental Leave Act shall apply in their relevant versions.

(4) ¹No disadvantages may be experienced by the student through following the provisions under section 3. ²Fulfilment of the prerequisites under sections 1 to 3 should be evidenced through suitable

documents, for example, medical certificates from specialist physicians, birth certificates, certifications of the local residents' registration office, etc.

Part VI

Publication of the dissertation and award of the doctoral studies

§ 29 Publication of the thesis

(1) The dissertation must be published.

(2) ¹During publication, the doctoral candidate should consider recommendations by the experts on changes with regard to content. ²The first reviewer must confirm on a revision slip that the work and the summaries according to section 6 meet the formal standards of a publication.

(3) The following options can be used for publication: Open access publication, e.g. with the SUB Göttingen, publication by a publishing house, printing or as an E-book, Open Access E-Book, own print, discussion paper series.

(4) The Faculty Council may permit other publication forms.

(5) ¹The doctoral candidate must submit a definite number of printed copies of the publications or his/her dissertation (obligatory copies) to be specified by the Faculty Council's decision for the respective publication form, free-of-charge to the Faculty. ²These must be submitted to the Faculty along with the publication within one year of passing the oral examination. ³If the doctoral candidate fails to meet this deadline, all rights acquired through the examination become void. ⁴The Dean of Studies can extend the deadline for submission. ⁵This requires a plausible application filed by the doctoral candidate before expiry of the annual deadline.

(6) ¹Along with the obligatory copies of the dissertation, the doctoral candidate should submit two summaries, each of DIN A4 page length and namely, one in German and the other in English. ²These are to be published by the faculty.

(7) ¹Publication in the form of single contributions in publications with external review procedures is also considered as a publication, insofar as the publications represent the contents of the dissertation as a whole. ²This is confirmed in the revision slip (section 2). ³The provision of the section 6 applies correspondingly.

(8) If the dissertation writing is published in parts in accordance with section 7, but without reflecting the contents as a whole, the provisions of the sections 2 to 7 apply to the as yet unpublished parts.

(9) ¹ The following applies in the case of a joint dissertation in accordance with § 14 para 4:

²In the event that individual contributions are not yet published, the submission of a letter by the publishing house, which confirms acceptance of the contribution for publication and essential compliance to the submitted version with regard to content, is also sufficient for meeting the obligation of publication. ³ Provided individual contributions have not yet been published and the proof of publication in writing cannot be provided by the publishing house, the following options can be used: Open access publication, e.g. with the SUB Göttingen, publication by a publishing house, printing or as an E-book, Open Access E-Book, own print, discussion paper series. In the process, the publication has to be in the form as per § 14, para 5 clause 8. Contributions already published can be replaced by a reference to the source of publication

(10) ¹If there is an important reason, upon joint application of the doctoral student and his or her first academic advisor, publication may be done initially in such a manner that only the abstract is made accessible to the public for a certain period, but not the complete dissertation manuscript. ²An important reason is present especially when

- a) parts of the dissertation manuscript were accepted for publication in a magazine or a publishing house and prior publication of these parts is inadmissible according to the underlying contract,
- b) this is required for the protection of intellectual property.

³The period under line 1 ends six months after the day of the passed oral defense; once the application is accepted, the period can be extended once by additional six months. ⁴Ruling thereon is passed by the Examinations Board. ⁵The application should be placed before the oral examination scheduled. ⁶At the latest with the expiry of the time period under lines 1 and 3, the obligatory copies under section 5 line 1 must be submitted.

§ 30 Award of the doctorate

(1) ¹If the doctoral candidate meets all of his or her obligations under the examination regulations, especially submitted the obligatory copies and the summaries in German and English, then the Dean of Studies awards the doctorate by submitting the examination certificate (Appendix 6) as well as the doctoral certificate (Appendix 7), each with an English translation upon request. ²The day of the passed oral examination is considered the date of doctoral graduation.

(2) ¹Contrary to section 1 line 1, the doctorate can be awarded before the mandatory copies under § 29 section 5 p. 1 are submitted, if

- a) instead of the mandatory copies, a publishing house contract with an accredited scientific publishing house is submitted and moreover declares in writing that the printing and submission of the obligatory copies are guaranteed within a maximum period of a year since the oral examination;

b) publication takes place in accordance with § 29 para 10.

²The doctorate is awarded in this case under reservation of the fulfilment of obligations according to § 29 section 5, p.1 If this obligation is violated, all rights acquired through the examination, especially the right to carry the doctoral degree, become void. ³The doctoral certificate shall be returned immediately in this case.

(3) Before handing over the Ph.D. certificate, the doctorate degree may not be carried.

§ 31 Inspection of the Examination Records

In the period between conclusion of the oral examination and awarding the doctorate or within four weeks after return or rejection of the dissertation or after failure of the oral examination, the doctoral candidate is entitled to inspect the written reviews and the minutes of the examination at the Dean of Studies.

§ 32 Deception; invalidity of the doctoral examination; withdrawal of the doctorate

(1) ¹If the doctoral candidate undertakes efforts to influence the result of examination or study prerequisites through deceit or use of prohibited aids or also through retroactive exertion of influence on an examiner for one's own or others' advantage, the relevant examination or study prerequisites are assessed as "failed". ²From the consequences mentioned in line 1, it can also be recognised whether the doctoral candidate carries any prohibited aids with himself or herself. ³A doctoral candidate who has violated the examination regulations or grossly violated the regulations in any other manner, can be excluded by the respective examiners or supervisors from the continuation of the study or examination prerequisites; in this case, the relevant study or examination prerequisites are assessed as "failed". ⁴In serious cases, the graduate committee can exclude the doctoral candidate from completing additional study or examination prerequisites; repeated offence under line 1 is especially regarded as a serious violation. ⁵A decision may be made to refrain from imposing sanctions in less serious cases. ⁶If there is suspicion of the use of prohibited aids, the doctoral candidate is obligated to assist in the clarification and return the aids; should this be refusal, the relevant study or examination prerequisites are assessed as "failed". ⁷Before a decision under sentence 4, the doctoral candidate should be heard.

(2) The doctoral examination can be declared void and the doctorate can be withdrawn,

- a) if it is subsequently ascertained that the doctorate was acquired through fraudulence, or if essential prerequisites for the admission to the doctoral examination were wrongly presumed to be fulfilled,
- b) if it is subsequently ascertained that the holder of the doctoral degree did, due to grossly negligent or intentional conduct in violation of the obligation to uphold scientific integrity,
 - ba) proved unworthy of being awarded a doctoral degree, or
 - bb) proved unworthy of holding an doctoral degree due to subsequent behaviour,
- c) if the holder of the doctorate has proved himself or herself unworthy of holding academic degree due to their subsequent behaviour or conduct.

(3) In the event that there is a lawful conviction for a criminal offence in connection with the doctoral studies, the doctoral examination shall be declared void and the doctorate shall be withdrawn.

(4) ¹The faculty council of the Faculty of Economic Sciences takes decisions as per sections 2 and 3 with the majority of their members who have a doctorate; in case of a suspicion of academic misconduct the decision should go ahead according to the regulations of the University of Göttingen for ensuring good academic practice in the respective current version. ²The notification is issued by the dean. ³The notice must be sent to the recipient concerned.

§ Section 33 doctoral album

The faculty maintains a doctoral album, in which the name, date and place of birth of the doctoral graduate, the title of the dissertation, the names of the reviewers, the date of the oral examination, the names of the members of the examination board, the examination subjects, the current average grade and the doctoral graduation date are entered.

§ 34 Awarding the honorary doctorate

(1) ¹The honorary doctorate in economic sciences is awarded by the faculty council as a rare distinction for outstanding scientific merit; this is decided by two-thirds of the members, (which also includes two-thirds of the professors) who are eligible to vote. ²The faculty council drafts implementation provisions for this purpose. ³Only members and persons who belong to the Faculty of Economic Sciences are authorised to make suggestions of persons to be honoured.

(2) ¹The honorary doctorate is awarded by the Dean of Studies in the form of a degree certificate. ²This degree certificate shall list the scientific merits that led to the award of the honorary doctorate.

§ 35 Decision, appeal proceedings in the assessment of an examination result

(1) Rejecting decisions and other incriminating administration acts that are decided in accordance with this doctoral degree regulation, are to be established in writing, provided with instruction of the right of appeal and notified to the student.

(2) ¹Appeals against a decision that underlies the assessment of an examination result within the framework of this regulation can be lodged within a month after announcement of the notification. ²The graduate committee decides on the appeal in consideration of the procedure under § 3, unless the appeal is sustained.

(3) ¹Insofar the appeal is against an assessment by an examiner, the Graduate Committee forwards the appeal by this person for review. ²If the examiner changes the assessment according to the appeal, the examination board sustains the appeal. ³Otherwise, it reviews the decision based on the statement by the examiner, especially based on whether

- a) the examination procedure has been properly carried out,
- b) the generally valid assessment principles have been followed,
- c) the assessment has been based completely on relevant facts,
- d) all justifiable solutions and those consistently established with serious arguments have been assessed as correct,
- e) the examiner has not been influenced by irrelevant considerations.

⁴The same applies if the appeal is against an assessment by several examiners. ⁵Insofar as definite and substantiated appeal against examination-specific valuations and expert assessments are present, examination components are reassessed by other examiners, who were not concerned with the acceptance of this examination yet or repeated by these examiners, as far as there is substantial evidence of an apprehension of bias against the first examiner or the first examiner or the first assessor. ⁶Reassessment must not lead to deterioration in the examination assessment. ⁷A ruling on the appeal must be issued as quickly as possible.

(4) ¹The appeal must be lodged in writing or as a written record with the department that passed the decision. ²The deadline is adhered to by submission to the Dean of Studies at the Faculty of Economic Sciences.

(5) ¹If the objection is not sustained, a notice of rejection is issued. ²This is issued by the dean of the Faculty of Economic Sciences. ³The notice of rejection should be reasoned, issued with instructions on rights of legal remedy and delivered.

Part V

Double doctorates

§ 36 Requirements for a joint doctoral process

(1) A doctoral process carried out jointly with a foreign university or faculty requires

a) an agreement has been concluded with the foreign university or faculty regarding the cross-border supervision of these doctoral studies or an individual cooperation contract for implementation of a double doctoral degree has been concluded with the foreign university or faculty, and

b) admission to the doctoral degree has been granted both at the University of Göttingen and the foreign university or faculty.

(2) ¹The dissertation can be submitted at the University of Göttingen or the foreign university or faculty according to more specific provision in the agreement under section 1 no. 1. ²A dissertation, that was submitted at the foreign university or faculty before conclusion of the agreement in accordance with section 1 no. 1 and was accepted or rejected there, cannot be resubmitted at the University of Göttingen. ³The agreement under section 1 no. 1 must ensure that a dissertation submitted at the University of Göttingen and accepted or rejected there before conclusion of the agreement under section 1 no.1, cannot be resubmitted at the foreign university or faculty.

(3) ¹If the dissertation is submitted to the University of Göttingen, then § 37 should be applied. ²If the dissertation is submitted at the foreign university or faculty, then § 38 should be applied.

§ 37 Submission to the University of Göttingen in case of a joint doctoral process

(1) ¹During the execution of the doctoral process, the supervision is provided by at least one authorised advisor of the University of Göttingen and at least one authorised advisor of the foreign university or faculty. ²The execution of supervision is specified in the agreement under § 36 para 1 no. 1.

(2) ¹Notwithstanding § 7, the Faculty of Economic Sciences appoints in agreement with the foreign university or faculty a thesis committee, which is to be equally constituted of scholars from both institutions; § 36 section 1 no. 1 of the agreement regulates this composition more specifically. ²Both academic advisers to the dissertation should be appointed generally as reviewers.

(3) ¹If the dissertation was accepted at the University of Göttingen, then it is transferred to the foreign university or faculty for approval on the continuation of the process. ²If the foreign university or faculty issues the approval on continuation of the process, then an oral examination takes place at the Faculty of Economic Sciences at the University of Göttingen according to the provisions of §§ 23-28;

under the terms of the agreement it is possible to deviate from the provisions of §§ 23-28 in justified exceptional cases according to § 36 para 1 no. 1.

(4) ¹If the dissertation is accepted by the University of Göttingen, but the approval for continuing the process is rejected by the foreign university or faculty, the joint procedure is terminated. ²The doctoral process is continued according to the general provisions of these regulations. ³A new thesis committee has to be appointed for the examination in accordance with § 7.

§ 38 Submission at the foreign university or faculty in case of joint doctoral process

(1) ¹If the dissertation is submitted at the foreign university or faculty, then the foreign university or faculty decides on its acceptance or continuation of the process respectively, after reviewing the dissertation. ²If the result of the decision is positive, the Faculty of Economic Sciences at the University of Göttingen decides in accordance with § 20 on the acceptance of the dissertation after submission of all of the necessary reviews and considering all expert opinions of the advisers at the University of Göttingen. ³The dean announces the result to the foreign university or faculty. ⁴Furthermore, he or she notifies the names of the examiners to be appointed. ⁵The oral examination takes place at the foreign university or faculty.

(2) ¹If the dissertation is rejected at the University of Göttingen, then the joint procedure is concluded. ²The rejected dissertation may not be resubmitted at the University of Göttingen. ³The decisions on the reassessment of the doctoral degree remain unaffected.

(3) ¹If the dissertation is rejected at the foreign university or faculty, then the joint procedure is concluded. ²The process shall be continued in accordance with the terms of §§ 12 to 30.

§ 39 Joint PhD certificate

¹Successful completion of the doctoral process in co-supervision with a foreign university or faculty is followed by the award of a joint doctoral certificate, signed by both universities, which shows that it is a doctoral degree for academic performance awarded jointly by the concerned universities. ²In the event that it is not possible to issue a joint doctoral certificate, the doctoral certificate of the University of Göttingen will be issued with the addendum that the doctoral degree was earned based on a joint doctoral process conducted with the foreign university or faculty.

§ 40 Coming into effect and interim regulations

(1) This regulation enters into force following its promulgation in the official announcements of University of Göttingen as per 01.04.2012.

(2) The examination regulations for the doctoral programme in economic sciences in the version promulgated as per 21.04.2011 (Official Announcements no.7/2011 S. 354), as well as the supplementary study regulations for the doctoral programme in economic sciences in the version in the announcement dated 21.04.2011 (Official Announcements no. 7/2011 S. 377), last amended by a resolution of the presidential board on 16.08.2011 (Official Announcements I no. 8/2011 S. 517) will simultaneously cease to be in force.

(3) ¹Doctoral students that commenced their doctoral studies before this regulation came into force will be examined on the basis of this regulation. ²Sentence 1 notwithstanding, they shall be, upon application filed within no more than six months following introduction of this regulation, examined on the basis of the regulatory provisions as specified in section 2. ³Doctoral examinations on the basis of the regulation as specified in section 2 shall be held for the last time in the winter semester 2014/15.

Appendix 1: Course overview

As part of the doctoral studies, credits totalling at least 20 credits should be completed in accordance with the following provisions;

1) Scientific Skills

Courses with a total of 10 credits should be successfully completed according to the following condition:

a) The following courses should be successfully completed:

P.WIWI.0001. Doktorandenkolloquium (3 C, 3 WLH) should be successfully completed.

b) From the following selection, courses with a total of 7 credits should be successfully completed:

Research methods and research logic in economics (4 C, 3 WLH)

P.WIWI.0003. Interim result (3 C, 1 WLH)

P.WIWI.0004. Scientific communication (2 C, 1 WLH)

P.WIWI.0005. Preparing academic publications (4 C, 0 WLH)

2. Specialisation

One of the two following courses for a total of 4 credits should be successfully completed:

Fachspezifische Vertiefung (4 C, 2 WLH)

Themenspezifische Vertiefung (4 C, WLH)

3 Interdisciplinary character and key qualifications

6 credits from the following courses offered should be successfully completed:

P.WIWI.0008 Academic teaching (4 C, 5 WLH)

P.WIWI.0009 Interdisciplinary research (3 C, 1 WLH)

P.WIWI.0010 Advanced presentation technique (2 C, 0 WLH)

P.WIWI.0011 Coordination of practice projects (2 C, 0 WLH)

P.WIWI.0012 Coordination of research projects (2 C, 0 WLH)

P.SOWI. 6 Science management (2 C, 1 WLH)

Other courses (alternative courses) can be taken in place of those listed above. They must be approved by the Dean of Studies before the alternative course is chosen. An opinion from the thesis committee must be obtained before any decision is made.

Annex 2: Course handbook

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0001 Seminar for Doctoral Candidates				
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. discuss their research projects, 2. present the structure of an independent academic study and the research design in a technically correct manner; 3. report about the progress of their doctoral topic and 4. systematically present their results; 5. gain in-depth knowledge in subject-specific domains and current research directions; 6. can correlate the offered subjects independently to their own research work. 	Scope of the course 3 Credits/ 3 WLH Workload in hours: 90 Attendance in hours: 42 Self study in hours: 48			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td> 1. Seminar for doctoral candidates / Research seminar 2. Seminar for doctoral candidates / Research seminar 3 Seminar for doctoral candidates / Research seminar According to the individually agreed study plan, the student has to participate in seminars in three semesters. </td> <td style="border: 1px solid black; padding: 5px;"> 1 WLH 1 WLH 1 WLH </td> </tr> </table> <table border="1" style="width: 100%;"> <tr> <td> Performance record: Own discourse in two of the seminars (each about 20 – 30 minutes) and discussion </td> </tr> </table>	1. Seminar for doctoral candidates / Research seminar 2. Seminar for doctoral candidates / Research seminar 3 Seminar for doctoral candidates / Research seminar According to the individually agreed study plan, the student has to participate in seminars in three semesters.	1 WLH 1 WLH 1 WLH	Performance record: Own discourse in two of the seminars (each about 20 – 30 minutes) and discussion	WLH individual
1. Seminar for doctoral candidates / Research seminar 2. Seminar for doctoral candidates / Research seminar 3 Seminar for doctoral candidates / Research seminar According to the individually agreed study plan, the student has to participate in seminars in three semesters.	1 WLH 1 WLH 1 WLH			
Performance record: Own discourse in two of the seminars (each about 20 – 30 minutes) and discussion				
Options Compulsory course	Qualifications for entry None			
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences			
Frequency of course Semester basics Each semester	Duration The course can be completed in three semesters			
Language German or English	Maximum number of students 35			
Course coordinator Dean of Studies				
University of Göttingen				

PhD (doctorate) Programme in Economic Sciences P.WIWI.0002 Research Methods and Research Logic in Economic Sciences	
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. discuss specific research methods; 2. consolidate and specify the knowledge of methodology they need for their dissertation; 3. learn how to independently gain and apply new knowledge and skills; 4. systematically present their findings; 5. distinguish research topics from one another and derive research questions that can be empirically verified based on the state of the research; 6. develop suitable study designs for answering research questions based on their knowledge of the methodology. 	Scope of the course 4 Credits/ 3 WLH Workload in hours: 120 Attendance in hours: 42 Self study in hours: 78
Courses and examinations <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Methods course from one of the research areas of the PhD programme or an external methods course, for example, as part of an inter-university PhD network </div> <div style="border: 1px solid black; padding: 5px;"> Performance requirement: Presentation (about 30 minutes) or written examination (90 minutes). Alternative performance records may be recognised by the Graduate Committee. </div>	WLH individual <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> 3 WLH </div>
Options Optional required course	Qualifications for entry None
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences
Frequency of course Semester basics Each semester	Duration The course can be completed in one semester
Language German or English	Maximum number of students 35
Course coordinator Dean of Studies	
University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0003 Interim result workshop	
Learning objectives and skills	Scope of the

<p>The PhD students</p> <ol style="list-style-type: none"> 1. discuss their research projects and demonstrate the ability to structure an independent academic study and technically present the research topic, 2. report about the preliminary result of work done on their PhD project and systematically present their results; 3. can critically assess their own research project in an interdisciplinary discourse and develop the research perspective further 4. drive the progress in a knowledge-based society. 	<p>course</p> <p>3 Credits/ 1 WLH</p> <p>Workload in hours: 90 Attendance in hours: 14 Self study in hours: 76</p>		
<p>Courses and examinations</p> <table border="1" style="width: 100%;"> <tr> <td>Block course: Interim result</td> </tr> <tr> <td>Performance requirement: Written summary (about 10 pages), presentation (about 30 minutes) and discussion</td> </tr> </table>		Block course: Interim result	Performance requirement: Written summary (about 10 pages), presentation (about 30 minutes) and discussion
Block course: Interim result			
Performance requirement: Written summary (about 10 pages), presentation (about 30 minutes) and discussion			
<p>Options</p> <p>Optional required course</p>	<p>Qualifications for entry</p> <p>None</p>		
<p>Reassessment</p> <p>Twice</p>	<p>Applicability</p> <p>PhD programme for the Faculty of Economic Sciences</p>		
<p>Frequency of course Semester basics</p> <p>Each semester</p>	<p>Duration</p> <p>The course can be completed in one semester</p>		
<p>Language</p> <p>German or English</p>	<p>Maximum number of students</p> <p>35</p>		
<p>Course coordinator Dean of Studies</p>			

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0004 Scientific Communication			
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. expand their knowledge to defend their own position in controversial discussions and to counter criticism constructively; 2. systematically summarise their research findings and present the same in front of an expert audience; 3. can defend their own research project in disciplinary and inter-disciplinary discourses. 4. Can discuss the findings of their own specialist field with academic colleagues and in front of an international audience 	Scope of the course 2 Credits/ 1 WLH Workload in hours: 60 Attendance in hours: 10 Self study in hours: 50		
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td> 1. Participation in a podium discussion on an academic subject or 2. Oral academic paper in a national or international conference </td> </tr> <tr> <td> Performance requirement: Report (maximum 5 pages), alternative performance record may be recognised by the Graduate Committee </td> </tr> </table>		1. Participation in a podium discussion on an academic subject or 2. Oral academic paper in a national or international conference	Performance requirement: Report (maximum 5 pages), alternative performance record may be recognised by the Graduate Committee
1. Participation in a podium discussion on an academic subject or 2. Oral academic paper in a national or international conference			
Performance requirement: Report (maximum 5 pages), alternative performance record may be recognised by the Graduate Committee			
Options Optional required course	Qualifications for entry None		
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences		
Frequency of course Semester basics Each semester	Duration The course can be completed in one semester		
Language German or English	Maximum number of students		
Course coordinator Dean of Studies			

University of Göttingen PhD (doctorate) Programme in Economic Sciences

P.WIWI.0005 Creating Scientific Publications			
<p>Learning objectives and skills</p> <p>The PhD students carry out the following tasks successfully:</p> <ol style="list-style-type: none"> 1. Writing a scientific publication according to the requirements of the publication organ and thus demonstrating the ability to structure their own academic study. 2. Going through the review process successfully 3. Certificate of printing the paper or successfully presenting the paper at a reported conference 4. Driving the scientific progress in a knowledge-based society 	<p>Scope of the course</p> <p>4 Credits /0 WLH</p> <p>Workload in hours: 120</p>		
<p>Examination</p> <table border="1" style="width: 100%;"> <tr> <td> <ol style="list-style-type: none"> 1. Acceptance of the paper in a journal which is rated at least C by the respective professional society or 2. Acceptance of the paper in a reported conference which is appropriately classified by the respective professional society. Presentation and discussion of the paper at the conference. </td> </tr> <tr> <td> <p>Prerequisite:</p> <p>In case of a joint doctoral study, the paper is not used as the dissertation contribution. In case of several authors, one member of the Thesis Committee has to certify the work done by the PhD student with regards to the independent work and scope.</p> </td> </tr> </table>	<ol style="list-style-type: none"> 1. Acceptance of the paper in a journal which is rated at least C by the respective professional society or 2. Acceptance of the paper in a reported conference which is appropriately classified by the respective professional society. Presentation and discussion of the paper at the conference. 	<p>Prerequisite:</p> <p>In case of a joint doctoral study, the paper is not used as the dissertation contribution. In case of several authors, one member of the Thesis Committee has to certify the work done by the PhD student with regards to the independent work and scope.</p>	
<ol style="list-style-type: none"> 1. Acceptance of the paper in a journal which is rated at least C by the respective professional society or 2. Acceptance of the paper in a reported conference which is appropriately classified by the respective professional society. Presentation and discussion of the paper at the conference. 			
<p>Prerequisite:</p> <p>In case of a joint doctoral study, the paper is not used as the dissertation contribution. In case of several authors, one member of the Thesis Committee has to certify the work done by the PhD student with regards to the independent work and scope.</p>			
<p>Options</p> <p>Optional required course</p>	<p>Qualifications for entry</p> <p>None</p>		
<p>Reassessment</p> <p>Twice</p>	<p>Applicability</p> <p>PhD programme for the Faculty of Economic Sciences</p>		
<p>Frequency of course</p> <p>Semester basics</p> <p>Each semester</p>	<p>Duration</p> <p>The course can be completed in one semester</p>		
<p>Language</p> <p>German or English</p>	<p>Maximum number of students</p>		
<p>Course coordinator</p> <p>Dean of Studies</p>			

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0006 Field-specific Specialisation	
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. expand their knowledge in the research area of the doctoral studies; 2. learn how to independently gain and apply new knowledge and skills; 3. distinguish research topics from one another and derive relevant research questions that can be empirically verified based on the state of the research; 4. develop suitable study designs for answering research questions based on their acquired knowledge. 	Scope of the course 4 Credits/ 2 WLH Workload in hours: 120 Attendance in hours: 28 Self study in hours: 92
Courses and examinations Field-specific specialisation course in the research area of doctoral studies or an external field-specific specialisation course, for example, as part of an inter-university PhD study network Performance record: Presentation (about 30 minutes) or written examination (90 minutes). Alternative performance record may be recognised by the Graduate Committee.	WLH individual <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;">2 WLH</div>
Options Optional required course	Qualifications for entry None
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences
Frequency of course Semester basics Each semester	Duration The course can be completed in one semester
Language German or English	Maximum number of students 35
Course coordinator Dean of Studies	

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0007 Topic-specific Specialisation	
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. expand their knowledge in the subject area of doctoral studies by correlating the discussed subjects to your own research work; 2. learn how to independently gain and apply new knowledge and skills; 3. learning about subject-specific interdisciplinary research approaches 4. distinguish subject-specific research topics from one another and deriving relevant research questions that can be empirically verified based on the topic of the research; 5. develop suitable study designs for answering subject-specific research questions based on their acquired knowledge. 	Scope of the course 4 Credits/ 2 WLH Workload in hours: 120 Attendance in hours: 28 Self study in hours: 92
Courses and examinations <div style="border: 1px solid black; padding: 5px;"> Subject-specific specialisation course at the Faculty of Economic Sciences or subject-specific specialisation course at another faculty of the University of Göttingen or an external subject-specific specialisation course, for example, as part of an inter-university PhD study network </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Performance requirement: Presentation (about 30 minutes) or written examination (90 minutes). Alternative performance record may be recognised by the Graduate Committee. </div>	WLH individual <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> 2 WLH </div>
Options Optional required course	Qualifications for entry None
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences
Frequency of course Semester basics Each semester	Duration The course can be completed in one semester
Language German or English	Maximum number of students 35
Course coordinator Dean of Studies	
University of Göttingen	

PhD (doctorate) Programme in Economic Sciences P.WIWI.0008 Scientific Teaching			
Learning objectives and skills	Scope of the course		
<p>The PhD students</p> <ul style="list-style-type: none"> - put together a course (including exercises) under guidance and supervision, including the goals, learning objectives and contents and by doing so acquire knowledge in planning and organising a course, - acquire knowledge about the didactic aids of a course, - conduct the course - acquire skills required to reflect critically on their own course. 	<p>4 Credits/ 5 WLH</p> <p>Workload in hours: 120 Attendance in hours: 70 Self study in hours: 50</p>		
Courses and examinations	WLH individual		
<table border="1" style="width: 100%;"> <tr> <td> <p>1. Teaching in Higher Education workshop</p> <p>2. Conducting own two two-hour courses independently (exercises, tutorials)</p> </td> <td style="border: 1px solid black; padding: 5px;"> <p>1 WLH</p> <p>4 WLH</p> </td> </tr> </table>	<p>1. Teaching in Higher Education workshop</p> <p>2. Conducting own two two-hour courses independently (exercises, tutorials)</p>	<p>1 WLH</p> <p>4 WLH</p>	
<p>1. Teaching in Higher Education workshop</p> <p>2. Conducting own two two-hour courses independently (exercises, tutorials)</p>	<p>1 WLH</p> <p>4 WLH</p>		
<p>Performance requirement: Certification of successful completion of the non-independent learning by a member of the supervisory committee, results of evaluation</p>			
Options	Qualifications for entry		
Optional required course	None		
Reassessment	Applicability		
Twice	PhD programme for the Faculty of Economic Sciences		
Frequency of course Semester basics	Duration		
Each semester	The course can be completed in two semesters		
Language	Maximum number of students		
German or English			
Course coordinator Dean of Studies			

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0009 Interdisciplinary Research			
Learning objectives and skills The PhD students get an overview of the various interdisciplinary research methods and research areas, which help them in their own research work. They <ul style="list-style-type: none"> - can correlate the discussed subjects independently to their own research work. - can critically assess their own research project in interdisciplinary discourses - learn how to independently gain and apply new knowledge and skills; 	Scope of the course 3 Credits/ 1 WLH Workload in hours: 90 Attendance in hours: 35 Self study in hours: 55		
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td style="padding: 5px;">GGG method week</td> </tr> <tr> <td style="padding: 5px;">Performance record: Certificate of attendance and examination</td> </tr> </table>		GGG method week	Performance record: Certificate of attendance and examination
GGG method week			
Performance record: Certificate of attendance and examination			
Options Optional required course	Qualifications for entry None		
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences		
Frequency of course Semester basics Every summer semester	Duration The course can be completed in one semester		
Language German or English	Maximum number of students 35		
Course coordinator Head of the GGG			

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0010 Advanced Presentation Techniques			
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. summarise their research findings systematically; 2. present their findings to an expert audience; 3. critically assess and defend their own research project in interdisciplinary discourses. 4. can discuss the findings in their own area of expertise with colleagues and in front of an international audience 	Scope of the course 2 Credits/ 0 WLH Workload in hours: 60 Self study in hours: 60		
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Academic paper at a national or international conference</td> </tr> <tr> <td>Performance record: Lecture (about 30 minutes) and discussion</td> </tr> </table>		Academic paper at a national or international conference	Performance record: Lecture (about 30 minutes) and discussion
Academic paper at a national or international conference			
Performance record: Lecture (about 30 minutes) and discussion			
Options Optional required course	Qualifications for entry None		
Reassessment Twice	Applicability PhD programme for the Faculty of Economic Sciences		
Frequency of course Semester basics Each semester	Duration The course can be completed in one semester		
Language German or English	Maximum number of students		
Course coordinator Dean of Studies			

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0011 Coordination of Practical Projects	
Learning objectives and skills The PhD students drive the progress in a knowledge-based society by coordinating and managing projects in practice. This includes: <ol style="list-style-type: none"> 1. Time management 2. Resource coordination 3. Defining milestones 4. Conducting and coordinating project meetings 5. Project documentation and taking minutes of project meetings 	Scope of the course 2 Credits Workload in hours: 60
Course and examination <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> The PhD students present a document on the coordination activities. </div>	
Options Optional required course	Qualifications for entry None
Reassessment	Applicability PhD programme for the Faculty of Economic Sciences
Frequency of course	Duration The course can be completed in one semester.
Language German or English	Maximum number of students
Course coordinator Dean of Studies	

University of Göttingen PhD (doctorate) Programme in Economic Sciences P.WIWI.0012 Coordination of Research Projects	
Learning objectives and skills The PhD students can distinguish research topics from one another and derive relevant research questions based on the state of the research and coordinate research projects. In the process, they also manage the projects. This includes: <ol style="list-style-type: none"> 1. Time management 2. Resource coordination 3. Defining milestones 4. Conducting and coordinating project meetings 5. Project documentation and taking minutes of project meetings 	Scope of the course 2 Credits Workload in hours: 60
Course and examination <div style="border: 1px solid black; padding: 5px; width: fit-content;"> The PhD students present a document on the coordination activities. </div>	
Options Optional required course	Qualifications for entry None
Reassessment	Applicability PhD programme for the Faculty of Economic Sciences
Frequency of course	Duration The course can be completed in one semester.
Language German or English	Maximum number of students
Course coordinator Dean of Studies	

Appendix 3: Sample curriculum

Sem. Σ C*	Academic skills and technical specialisation 14 C		Key competencies 6 C
	Course	Course	Course
1. Σ 5 C	P.WIWI.0001a Seminar for doctoral candidates (compulsory) 1 C	P.WIWI.0002 Research methods 4 C	
2. Σ 8 C		P.WIWI.0004 Subject specific specialisation 4 C	P.WIWI.0008 Scientific teaching 4 C
3 Σ 1 C	P.WIWI.0001b Seminar for doctoral candidates (compulsory) 1 C		
4. Σ 3 C		P.WIWI.0003 Interim result 3C	
5. Σ 1 C	P.WIWI.0001c Seminar for doctoral candidates (compulsory) 1 C		
6. Σ 2 C			P.WIWI 0010 Advanced presentation techniques 2 C
Σ 20 C	14 (+6)		

Appendix 4: Doctoral studies in doctoral programmes

A. Course overview for doctoral studies in the framework of the German Research Foundation Research Training Group 1666 (Excellence Initiative)

Global Food

Doctoral students who are doctoral candidates within the framework of the Research Training Group 1666 GlobalFood, should successfully complete doctoral studies with a total of 36 credits in accordance with the following provisions.

I. Specialised studies

Courses with a total rating of 30 credits should be successfully completed in accordance with the following provisions.

1) Scientific skills and interdisciplinary capability

The following compulsory courses with a total of 24 credits should be completed successfully:

GRK1666.CM1 Survey techniques and analysis of firm and household data (6 C / 4 WLH)

GRK1666.CM2 Scientific writing and publishing (6 C / 2 WLH)

GRK1666.CM3 GlobalFood doctoral seminar (6 C / 3 WLH)

GRK1666.CM4 GlobalFood research colloquium (6 C / 6 WLH)

2. Subject and methodological specialisation

Two of the following compulsory courses with a total of 6 credits should be completed successfully:

GRK1666.ME01 Advanced supply chain management (3 C / 2 WLH)

GRK1666.ME02 Market integration and price transmission (3 C / 2 WLH)

GRK1666.ME03 Applied time series analysis (3 C / 2 WLH)

GRK1666.ME04 Consumer behaviour and demand analysis: Theory and applications(3 C / 3 WLH)

GRK1666.ME05 Experimental economics approaches in the laboratory (3 C / 2 WLH)

GRK1666.ME06 Experimental economics approaches in the field (3 C / 2 WLH)

GRK1666.ME07 Risk analysis and risk management in agriculture (3 C / 2 WLH)

GRK1666.ME08 Topics in rural development economics (3 C / 3 WLH)

GRK1666.ME09 Advanced development economics: Micro aspects (3 C / 2 WLH)

GRK1666.ME10 Efficiency and productivity analysis (3 C / 2 WLH)

II. Key competences

At least 6 credits from the following courses offered (soft skill electives) should be completed:

GRK1666.SE1 Intercultural communication (3 C / 1 WLH)

GRK1666.SE2 Gender and diversity (3 C / 1 WLH)

GRK1666.SE3 Presentation skills (3 C / 1 WLH)

GRK1666.SE4 Career development (3 C / 1 WLH)

GRK1666.SE5 Project management (3 C / 1 WLH)

Course overview for doctoral studies within the framework of the Research Training Group 1703

Resource Efficiency in Corporate Networks

I. Course overview

Doctoral students who are doctoral candidates within the framework of the Research Training Group 1703 Resource Efficiency in Corporate Networks, should successfully complete doctoral studies with at least 28 credits in accordance with the following provisions. The following six courses must be successfully completed:

GRK1703.M1: Wissenschaftliche Kompetenzen	4 C
GRK1703.M2: Reflexion und Optimierung der Forschung	4 C
GRK1703.M3: Forschung international vernetzen	4 C
GRK1703.M4: Fachliche Vertiefung	4 C
GRK1703.M5: Erwerb interdisziplinären Expertenwissens	6 C
GRK1703.M6: Vertiefung von Methodenkompetenzen	6 C

II. Course handbook

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK1703.M1 Academic Skills					
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. become acquainted with the topics and the structure of the (DFG Exzellenzinitiative) research training group; 2. acquire knowledge in subject-specific domains and about the current research directions in connection with the main theme; 3. can correlate the offered subjects independently to their own research work. 	Scope of the course 4 Credits/ 3 WLH Workload in hours: 120 Attendance in hours: 42 Self study in hours: 78				
Courses and examinations <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> <ol style="list-style-type: none"> 1. Introductory course 2. Series of lectures 3. Basic seminar on research questions, methods and research areas </td> <td style="text-align: center; vertical-align: middle; padding: 5px;"> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> 1 WLH each </div> </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Requirement of performance record: regular participation Performance requirement: Lecture (about 15 minutes). Alternative performance record can be recognised by the Supervisory Committee. </td> </tr> </table>	<ol style="list-style-type: none"> 1. Introductory course 2. Series of lectures 3. Basic seminar on research questions, methods and research areas 	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> 1 WLH each </div>	Requirement of performance record: regular participation Performance requirement: Lecture (about 15 minutes). Alternative performance record can be recognised by the Supervisory Committee.		WLH individual
<ol style="list-style-type: none"> 1. Introductory course 2. Series of lectures 3. Basic seminar on research questions, methods and research areas 	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> 1 WLH each </div>				
Requirement of performance record: regular participation Performance requirement: Lecture (about 15 minutes). Alternative performance record can be recognised by the Supervisory Committee.					
Options Compulsory course	Qualifications for entry Membership in RTG 1703				
Reassessment Twice	Applicability RTG 1703				
Frequency of course Semester basics Each semester	Duration Four semesters				
Language German or English	Maximum number of students 35				
Course coordinator Prof. Dr. Jutta Geldermann					

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK1703.M2: Reflection and Optimisation of the Research				
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. discuss their research projects; 2. demonstrate the ability to carry out an independent scientific study and professionally present the design of the study; 3. can report about the progress of their doctoral work in front of an expert audience and 4. can systematically present their findings; 5. gain in-depth knowledge in subject-specific domains and current research directions through guest lectures and discussions; 6. can correlate the offered subjects independently to their own research work; 7. can reflect on practical experiences. 	Scope of the course 4 Credits/ 3 WLH Workload in hours: 120 Attendance in hours: 42 Self study in hours: 78			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Seminar for doctoral students Research seminar</td> </tr> <tr> <td>Requirement of performance record: regular participation Performance record: Lecture in two of the seminars for doctoral candidates (each about 25 minutes), Presenting practical experiences in the research seminar</td> </tr> </table>	Seminar for doctoral students Research seminar	Requirement of performance record: regular participation Performance record: Lecture in two of the seminars for doctoral candidates (each about 25 minutes), Presenting practical experiences in the research seminar	WLH individual <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">1.5 WLH each</td> </tr> </table>	1.5 WLH each
Seminar for doctoral students Research seminar				
Requirement of performance record: regular participation Performance record: Lecture in two of the seminars for doctoral candidates (each about 25 minutes), Presenting practical experiences in the research seminar				
1.5 WLH each				
Options Compulsory course	Qualifications for entry Membership in RTG 1703			
Reassessment Twice	Applicability RTG 1703			
Frequency of course Semester basics Each semester	Duration Four semesters			
Language German or English	Maximum number of students 35			
Course coordinator Prof. Dr. Jutta Geldermann				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK1703.M3: International networking of research				
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. can discuss their research projects, 2. can discuss the findings of their own area of expertise with colleagues and in front of an international audience; 3. can systematically present their findings; 4. can critically assess their own research project in interdisciplinary discourses and 5. drive progress in a knowledge-based society. 	Scope of the course 4 Credits/ 1 WLH Workload in hours: 120 Attendance in hours: 14 Self study in hours: 106			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Active participation in an international conference</td> </tr> <tr> <td>Active participation in an international conference "Resource efficiency in corporate networks"</td> </tr> <tr> <td>Performance record: Presentation with written report in each case. Alternative performance record can be recognised by the Supervisory Committee.</td> </tr> </table>		Active participation in an international conference	Active participation in an international conference "Resource efficiency in corporate networks"	Performance record: Presentation with written report in each case. Alternative performance record can be recognised by the Supervisory Committee.
Active participation in an international conference				
Active participation in an international conference "Resource efficiency in corporate networks"				
Performance record: Presentation with written report in each case. Alternative performance record can be recognised by the Supervisory Committee.				
Options Optional required course	Qualifications for entry Membership in RTG 1703			
Reassessment Twice	Applicability RTG 1703			
Frequency of course Semester basics Each semester	Duration Four semesters			
Language English	Maximum number of students 35			
Course coordinator Prof. Dr. Jutta Geldermann				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK1703.M4: Technical Specialisation	
Learning objectives and skills The PhD students acquire knowledge to close the gaps between the preparatory education and the basic requirements for methods in the doctoral work. In the process, the PhD students acquire a systematic understanding of their field of study and master the skills and methods associated with this field.	Scope of the course 4 Credits/ 2 WLH Workload in hours: 120 Attendance in hours: 28 Self study in hours: 92
Courses and examinations <div style="border: 1px solid black; padding: 5px;"> <p>In consultation with the Supervisory Committee, the PhD students select the lecture series from two to three courses, which help in closing the gaps between one's own preparatory education and the basic requirements for methods in the doctoral work. Oral examinations are conducted without awarding grades. The courses to be taken are selected on the basis of a counselling session that the PhD students have with the Supervisory Committee at the start of programme. In the process, the previous study and examination results have to be taken into consideration, which are mentioned in the certificate or in a diploma supplement of a previously completed course of study. Courses in which the course of study was completed and whose completion was the basis for entry and admission to the doctoral studies, are not allowed to be taken.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Performance record: Oral examination (about 30 minutes) </div>	
Options Optional required course	Qualifications for entry Membership in RTG 1703
Reassessment Twice	Applicability RTG 1703
Frequency of course Semester basics Each semester	Duration Four semesters
Language German or English	Maximum number of students
Course coordinator	

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK1703.M5: Acquiring Interdisciplinary Expertise	
Learning objectives and skills The PhD students <ol style="list-style-type: none"> 1. expanding their knowledge in the research area of doctoral studies; 2. learn how to independently gain and apply new knowledge and skills; 3. can distinguish research topics from one another and derive relevant research questions based on the state of the research 4. can develop suitable study designs for answering research questions based on their acquired knowledge. 	Scope of the course 6 Credits/ 3 WLH Workload in hours: 180 Attendance in hours: 42 Self study in hours: 138
Courses and examinations <div style="border: 1px solid black; padding: 5px;"> Three subject-specific specialisation courses conducted by the host faculties in consultation with the Supervisory Committee. The courses are designed by 3-4 professors of the RTG 1703 and are hence inter-disciplinary. </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Performance record: Presentation (about 30 minutes) or written examination (90 minutes). Alternative performance record can be recognised by the Supervisory Committee. </div>	WLH individual <div style="border: 1px solid black; padding: 10px; text-align: center;"> 1 WLH each </div>
Options Optional course	Qualifications for entry None
Reassessment Twice	Applicability RTG 1703
Frequency of course Semester basics Each semester	Duration Four semesters
Language German or English	Maximum number of students 35
Course coordinator Prof. Dr. Jutta Geldermann	

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK1703.M6: Expansion of Method-related Skills	
Learning objectives and skills The PhD students expand soft skills that are necessary for independent and team-based work, especially in the areas of project management and group dynamics. In addition, language skills can be developed and knowledge of Teaching in Higher Education can be acquired.	Scope of the course 6 Credits/ 3 WLH Workload in hours: 180 Attendance in hours: 42 Self study in hours: 138
Courses and examinations <div style="border: 1px solid black; padding: 5px;"> The PhD students acquire knowledge in the areas of Project management and group dynamics. In addition, an elective course offered by RTG 1703, the GGG, Teaching in Higher Education or the ZESS for improving soft skills for example from the following area can be done: <ul style="list-style-type: none"> • Academic Writing and Publishing • Time management and self-management • Scientific English • English Presentation Skills • Career development • Teaching in Higher Education </div>	WLH individual <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> 1 WLH each </div>
Performance record: Presentation (about 30 minutes) or written examination (90 minutes) each. Alternative performance record can be recognised by the Supervisory Committee.	
Options Optional course	Qualifications for entry Membership in RTG 1703
Reassessment Twice	Applicability RTG 1703
Frequency of course Semester basics Each semester	Duration Four semesters
Language German or English	Maximum number of students 35
Course coordinator Prof. Dr. Jutta Geldermann	

Course overview for doctoral studies within the framework of the Research Training Group 1723

Globalization and Development

I. Course overview

Doctoral students who are doctoral candidates within the framework of the Research Training Group 1723 Globalization and Development, should successfully complete doctoral studies with a total of at least 30 credits in accordance with the following provisions.

1) Scientific Skills

The following courses for a total of 15 credits should be successfully completed.

GRK 1723, M1: "Micro Development Economics" (3 C, 2 WLH)

GRK 1723, M2: "Macro Development Economics" (3 C, 2 WLH)

GRK 1723, M3: "Econometrics I: Panel Data" (3 C, 2 WLH)

GRK 1723, M4: "Econometrics II" (3 C, 2 WLH)

GRK 1723, M5: "Globalization" (3 C, 2 WLH)

2. Specialisation

6 credits must be acquired by successfully attending courses from the following list

GRK 1723, M6: "Poverty/Vulnerability" (1 C, 1 WLH)

GRK 1723, M7: "Risk" (1 C, 1 WLH)

GRK 1723, M8: "Financial Development" (1 C, 1 WLH)

GRK 1723, M9: "Political Economy of Development" (1 C, 1 WLH)

GRK 1723, M10: "Guest Lecture I" (1 C, 1 WLH)

GRK 1723, M11: "Guest Lecture II" (1 C, 1 WLH)

GRK 1723, M12: "Guest Lecture III" (1 C, 1 WLH)

GRK 1723, M13: "Guest Lecture IV" (1 C, 1 WLH)

GRK 1723, M14: "Guest Lecture V" (1 C, 1 WLH)

GRK 1723, M15: "Guest Lecture VI" (1 C, 1 WLH)

3 Research events

6 credits must be acquired from the following course:

GRK 1723, M16: Research Seminar and Research Workshop (6 C, 6 WLH)

4 Interdisciplinary character and key skills

3 credits must be acquired by successfully attending the following course.

GRK 1723, M17: Academic Research Training and Presentation of Research Proposals (3 C, 2 WLH)

Other courses (alternative courses) can also be taken in place of those named above. Before enrolling, they must be approved by the executive committee at the RTG.

II. Course handbook

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M1 Micro Development Economics				
Learning objectives and skills Students become acquainted with current micro-economic theories and models as relevant to development economy. These topics include measuring development and poverty, consumer and producer theory, game theory and information economics	Scope of the course 3 C/4 WLH Workload in hours: 90 Attendance in hours: 56 Self study in hours: 34			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Lecture (2SWS), exercise (2SWS)</td> </tr> <tr> <td> Performance record: Written examination (90 minutes) </td> </tr> </table>	Lecture (2SWS), exercise (2SWS)	Performance record: Written examination (90 minutes)	WLH individual <table border="1" style="width: 100%;"> <tr> <td> 2 WLH lecture 2 WLH exercise </td> </tr> </table>	2 WLH lecture 2 WLH exercise
Lecture (2SWS), exercise (2SWS)				
Performance record: Written examination (90 minutes)				
2 WLH lecture 2 WLH exercise				
Options Compulsory course	Qualifications for entry			
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 "Globalization and Development"			
Frequency of course Semester basics First semester	Duration The course can be completed in one semester.			
Language English	Maximum number of students 20			
Course coordinator Stephan Klasen, Ashok Rai				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M2 Macro Development Economics				
Learning objectives and skills The PhD students learn to be able to analyse and evaluate the significance of (i) Governance, (ii) Property rights, (iii) Inequality, (iv) Institutional change, (v) Culture for economic development.	Scope of the course 3 C/ 2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Lecture</td> </tr> <tr> <td>Performance record: Written examination or presentation</td> </tr> </table>	Lecture	Performance record: Written examination or presentation	WLH individual <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>2 WLH</td> </tr> </table>	2 WLH
Lecture				
Performance record: Written examination or presentation				
2 WLH				
Options Compulsory course	Qualifications for entry			
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 "Globalization and Development"			
Frequency of course Semester basics First semester	Duration The course can be completed in one semester			
Language English	Maximum number of students 30			
Course coordinator Holger Strulik				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M3 Econometrics I: Panel Data	
Learning objectives and skills The PhD students become acquainted with the basics and methods of econometrics with an emphasis on panel data, this includes: <ol style="list-style-type: none"> 1. Instrumental variable estimation 2. Fixed Effects and Differences-in-Differences estimates 3. Regression Discontinuity Design 4. Quantile regressions 	Scope of the course 3 C/2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62
Courses and examinations <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Method courses from one of the research areas of (DFG Exzellenzinitiative) research training group 1723 "Globalization and Development". Block course. </div> Performance record: Written examination	
Options Compulsory course	Qualifications for entry
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 Globalization and Development
Frequency of course Semester basics First semester	Duration The course can be completed in one semester
Language English	Maximum number of students No restriction
Course coordinator Patrick Puhani	

Georg-August-Universität Göttingen, PhD (doctorate) Programme in Economic Sciences GRK 1723, M4: Econometrics II: Time-series, surveys & field experiments			
Learning objectives and skills This course introduces the experimental method in economics, and presents the statistical methods necessary for it.	Scope of the course 3 C/2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62		
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Lecture</td> </tr> <tr> <td>Performance record: Paper (research paper, maximum 10 pages)</td> </tr> </table>	Lecture	Performance record: Paper (research paper, maximum 10 pages)	
Lecture			
Performance record: Paper (research paper, maximum 10 pages)			
Options Compulsory course	Qualifications for entry		
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 Globalization and Development		
Frequency of course Semester basics First semester	Duration The course can be completed in one semester		
Language English	Maximum number of students 25		
Course coordinator Tatyana Krivobokova, Marcela Ibanez-Diaz			

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M5: Globalization					
Learning objectives and skills The lecture provides a broad overview of the various dimensions of Globalization. The starting point is, how Globalization can be measured; followed by an analysis of its determinants and consequences. Instead of a narrow definition of Globalization, a comprehensive definition is chosen, which extends to topics such as environment, international terrorism and human trafficking.	Scope of the course 3 C/2 WLH Workload in hours: 90 Attendance in hours: 28 Self study in hours: 62				
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Lecture</td> </tr> <tr> <td>Performance record:</td> </tr> <tr> <td>Written examination (90 minutes)</td> </tr> </table>	Lecture	Performance record:	Written examination (90 minutes)	WLH individual <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">2 WLH</td> </tr> </table>	2 WLH
Lecture					
Performance record:					
Written examination (90 minutes)					
2 WLH					
Options Compulsory course	Qualifications for entry				
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 Globalization and Development				
Frequency of course once Semester basics First semester	Duration The course can be completed in one semester				
Language English	Maximum number of students 40				
Course coordinator Axel Dreher, Lukas Menkhoff					

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M6: Poverty/ Vulnerability				
Learning objectives and skills Students become acquainted with the current literature about the latest methods of measuring and analysing poverty and vulnerability.	Scope of the course 1 C/1 WLH Workload in hours: 30 Attendance in hours: 14 Self study in hours: 16			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Lecture</td> </tr> <tr> <td>Performance record: Written examination (90 minutes)</td> </tr> </table>	Lecture	Performance record: Written examination (90 minutes)	WLH individual <table border="1" style="width: 100%;"> <tr> <td>1 WLH</td> </tr> </table>	1 WLH
Lecture				
Performance record: Written examination (90 minutes)				
1 WLH				
Options Optional required course	Qualifications for entry			
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 Globalization and Development			
Frequency of course Semester basics Second semester	Duration The course can be completed in one semester			
Language English	Maximum number of students 20			
Course coordinator Stephan Klasen				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M7: Risk				
Learning objectives and skills The students are familiar with approaches of risk measurement and various theories about decision-making behaviour in the event of uncertainty and risk. They can analyse forms of individual (insurance, diversification, caution, precaution) and collective (risk sharing, risk assessment, social security) risk management. They are familiar with informational aspects of risk (value of information, learning, asymmetrical information) and can apply risk theory to economic problems of Globalization and Development.	Scope of the course 1 C/1 WLH Workload in hours: 30 Attendance in hours: 14 Self study in hours: 16			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td>Lecture</td> </tr> <tr> <td>Performance record: Presentation (50%) and written examination (50%)</td> </tr> </table>	Lecture	Performance record: Presentation (50%) and written examination (50%)	WLH individual <table border="1" style="width: 100%; text-align: center;"> <tr> <td>1 WLH</td> </tr> </table>	1 WLH
Lecture				
Performance record: Presentation (50%) and written examination (50%)				
1 WLH				
Options Optional required course	Qualifications for entry			
Reassessment	Applicability (DFG Excellence Initiative) research training group 1723 Globalization and Development			
Frequency of course Yearly Semester basics Second semester	Duration The course can be completed in one semester			
Language English	Maximum number of students 25			
Course coordinator Andreas Wagener				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M8: Financial Development				
Learning objectives and skills This course analyses the role of financial development for the economic development. The PhD students gain an insight into how financial systems in developing countries and emerging economies are designed and why they are so important for private households. They learn, who financial institutions solve the problem of credit rationing and how the credit conditions differ in developing and less developed countries. Overall, the course conveys a in-depth analysis of how financial development can support the process of economic development.	Scope of the course 1 C/1 WLH Workload in hours: 30 Attendance in hours: 14 Self study in hours: 16			
Courses and examinations <table border="1"> <tr> <td>(DFG Excellence Initiative) Research Training Group 1723 Globalization and Development</td> </tr> <tr> <td>Performance record:Written examination or presentation or oral examination or paper with presentation</td> </tr> </table>	(DFG Excellence Initiative) Research Training Group 1723 Globalization and Development	Performance record: Written examination or presentation or oral examination or paper with presentation	WLH individual <table border="1"> <tr> <td>1 WLH</td> </tr> </table>	1 WLH
(DFG Excellence Initiative) Research Training Group 1723 Globalization and Development				
Performance record: Written examination or presentation or oral examination or paper with presentation				
1 WLH				
Options Optional required course	Qualifications for entry			
Reassessment	Applicability (DFG Excellence Initiative) Research Training Group 1723 Globalization and Development			
Frequency of course Semester basics Second semester	Duration The course can be completed in one semester			
Language English	Maximum number of students			
Course coordinator Lukas Menkhoff, Ashok Rai				

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M9: Political Economy of Development				
Learning objectives and skills Replication of empirical studies in the area political economy of development. Participants replicate an article each based on raw data, test whether the results are solid, put down the results on paper in a short seminar course and present the article as well as the results of the replication.	Scope of the course 1 ECTS 1 WLH Workload in hours: 30 Attendance in hours: 14 Self study in hours: 16			
Courses and examinations <table border="1" style="width: 100%;"> <tr> <td style="padding: 5px;">Seminar</td> </tr> <tr> <td style="padding: 5px;">Performance record: Paper and Presentation</td> </tr> </table>	Seminar	Performance record: Paper and Presentation	WLH individual <table border="1" style="width: 100%; height: 100px;"> <tr> <td style="text-align: center; vertical-align: middle;">1SWS</td> </tr> </table>	1SWS
Seminar				
Performance record: Paper and Presentation				
1SWS				
Options Optional required course	Qualifications for entry			
Reassessment	Applicability (DFG Excellence Initiative) Research Training Group 1723 Globalization and Development			
Frequency of course Once Semester basics Second semester	Duration The course can be completed in one semester			
Language English	Maximum number of students 15			
Course coordinator Axel Dreher				

Georg-August-Universität Göttingen, PhD (doctorate) Programme in Economic Sciences GRK 1723, M10 to M.15: Guest Lectures I to VI	
Learning objectives and skills Established scholars from the research area of the (DFG Excellence Initiative) research training group conduct guest lectures/seminar courses about various topics. This enables the PhD students to expand their knowledge in specific topics and thus to have a broader understanding of the topic "Globalization and Development".	Scope of the course 1 C/1 WLH Workload in hours: 30 Attendance in hours: 14 Self study in hours: 16
Courses and examinations <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Subject-specific specialisation courses and seminar courses from one of the research areas of the (DFG Excellence Initiative) research training group 1723 "Globalization and Development". </div> Performance record: Written examination or presentation or oral examination or paper with presentation	
Options Optional course	Qualifications for entry
Reassessment	Applicability (DFG Excellence Initiative) Research Training Group 1723 Globalization and Development
Frequency of course Semester basics 2nd to 5th semester	Duration
Language English	Maximum number of students 30
Course coordinator Lukas Menkhoff, Stephan Klasen, Gastvortragende	

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M16: Research Seminar and Research Workshop						
Learning objectives and skills PhD students become acquainted with the latest research work of established researchers in their field. In doing so they gain an insight into the structure of research questions, in applied methods and have the opportunity to critically reflect on the research work done by others. They can actively participate in academic discussions and moreover learn how research (work) is presented. Besides this the PhD candidates have the opportunity to present their own research (work) and to discuss with other PhD candidates and professors. In the process argumentation skills are enhanced and a more in-depth analysis of one's own research becomes possible. Over and above that, due to this discussion the entire audience makes a contribution to the further development of the research presented.	Scope of the course 6 C/9 WLH Workload in hours: 180 Attendance in hours: 126 Self study in hours: 54					
Course and examination <table border="1" style="width: 100%;"> <tr> <td>Colloquium, participation in every semester</td> <td rowspan="4" style="vertical-align: top;"> Per semester 1 WLH 2 WLH </td> </tr> <tr> <td>Workshop at the end of semester 4, 5, and 6</td> </tr> <tr> <td>Performance record: Presentation and discussion</td> </tr> <tr> <td>Performance record requirements:Regular attendance,</td> </tr> </table>	Colloquium, participation in every semester	Per semester 1 WLH 2 WLH	Workshop at the end of semester 4, 5, and 6	Performance record: Presentation and discussion	Performance record requirements: Regular attendance,	
Colloquium, participation in every semester	Per semester 1 WLH 2 WLH					
Workshop at the end of semester 4, 5, and 6						
Performance record: Presentation and discussion						
Performance record requirements: Regular attendance,						
Options Compulsory course	Qualifications for entry					
Reassessment	Applicability (DFG Excellence Initiative) Research Training Group 1723 Globalization and Development					
Frequency of course Semester 1 to 6	Duration The course is completed in 6 semesters.					
Language English	Maximum number of students 30					
Course coordinator Lukas Menkhoff, Stephan Klasen						

University of Göttingen PhD (doctorate) Programme in Economic Sciences GRK 1723, M17: Academic Research Training and Presentation of Research Proposals	
Learning objectives and skills <p>The PhD candidates learn techniques of academic research. In particular they learn to compose academic texts, presentation techniques and get guidance for publication. Furthermore, topics such as project management and time management, drafting third-party funding applications and intercultural competence are being addressed.</p> <p>Besides this, the PhD candidates learn to present and discuss their research (work) with other course participants and substantiate it. This research (work) should ideally present a first overview of the dissertation of the doctoral candidates. By means of active participation in discussions during the presentation of other research (work), the PhD candidates learn how the discussion enriches current research (work).</p>	Scope of the course 3 C/ 3 WLH Workload in hours: 90 Attendance in hours: 42 Self study in hours: 48
Course and examination <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> This course is conducted in the form of several workshops for specific topics. </div> <div style="border: 1px solid black; padding: 5px;"> Performance record: Presentation and discussion </div>	
Options Compulsory course	Qualifications for entry
Reassessment	Applicability (DFG Excellence Initiative) Research Training Group 1723 Globalization and Development
Frequency of course First and second semester	Duration The course can be completed in one semester.
Language English	Maximum number of students 30
Course coordinator Lukas Menkhoff, Stephan Klasen	

D. Course overview for doctoral studies within the framework of the Doctoral Training Group "Upgrading qualification in small to medium-sized companies – establishing academia in medium-sized firms"

I. Course overview

Doctoral students who are doctoral candidates within the framework of the Doctoral Training Group "Upgrading qualification in small to medium-sized companies – establishing academia in medium-sized firms", should successfully complete doctoral studies totalling at least 26 credits in accordance with the following provisions.

1) Compulsory courses

The following two courses for a total of 15 credits must be successfully completed.

P.HBS.01 Fachliche und methodische Grundlagen (4 C/ 4 WLH)

P.HBS.02 Forschung lernen und reflektieren (11 C/ 10 WLH)

2. Optional Courses

The following courses with a total of at least 11 credits should be successfully completed:

P.HBS.03 Berufseinmündungskompetenzen (4 C)

P.HBS.04 Methoden und Schlüsselkompetenzen (7 C)

In addition to these two courses and subject to agreement with the supervision committee, courses offered at the academic institutions participating in the research training group, the Central Institution for Languages and Key Competencies or the Hans Böckler Foundation, can also be completed in the fields of interdisciplinary methods, key competencies and vocational competencies.

**Course overview for doctoral studies within the framework of the Research Training Group 1644
Scaling Problems within Statistics**

I. Course overview

Doctoral students, who are doctoral candidates within the framework of the Research Training Group 1644 Scaling Problems within Statistics, should successfully complete doctoral studies with a rating totalling at least 29 credits in accordance with the following provisions.

1) Specialist course

Courses with a rating of 25 credits should be successfully completed in accordance with the following provisions.

a. Statistical methods

aa. Compulsory part of the programme

The following compulsory course has to be completed:

P.SPS.01 Introduction to Mixed Models and Spatial Statistics (8 C / 8 WLH)

bb. Optional required course

One of the following optional required courses of 4 credits must be successfully completed. Once enrolment in one course has been completed, enrolment in any of the following courses is only permitted if the course initially enrolled in was failed conclusively or is deemed to have been failed.

P.SPS.02 Advances in Spatial Statistics (4 C / 4 WLH)

P.SPS.03 Generalisierte Regression (4 C / 4 WLH)

b. Subject specialisation

Courses of 3 credits must be successfully completed. Courses in the field of "Subject specialisation" can be taken from the selection of specialised courses offered at the participating faculties at the university and can be approved by the examinations committee in individual cases.

c. Research seminars, colloquia, summer schools and specialist conferences at RTG 1644

The following courses totalling 10 credits must be successfully completed.

P.SPS.04 Kolloquien und Forschungsseminare (6 C / 4 WLH)

P.SPS.05 Fachtagungen und Sommerschulen (4 C)

2. Key competences

Courses of at least 4 credits in total must be successfully completed in accordance with the following provisions.

a. Compulsory part of the programme

The following course must be successfully completed:

P.SPS.06 Diversity Competence and Good Scientific Practice (2 C / 2 WLH)

b. Optional required course

Courses with of at least 2 credits must be completed. In this, courses in the interdisciplinary courses offered at the university can be taken and can be approved by the examinations committee in individual cases.

F: Doctoral programme in applied statistics and empirical methods

Course overview and regulations for participation can be derived from the “Regulations of the doctoral studies programme Applied Statistics and Empirical Methods der University of Göttingen“ in the respective applicable version.

G: Doctoral degree programme

Designing Mobile Information Systems in the Digital Transformation

I. Course overview

Doctoral students, who are doctoral candidates within the framework of the doctoral degree programme Designing Mobile Information Systems in the Digital Transformation, must successfully complete courses totalling at least 24 credits in accordance with the following provisions.

1. Specialist course

Courses totalling 20 credits must be successfully completed in accordance with the following provisions.

a. Technical specialisation

The following compulsory courses totalling 16 credits must be completed successfully:

P.GMI.CM-1	Engaged IS Scholarship	(4 C)
P.GMI.CM-2	Theory of Science	(4 C)
P.GMI.CM-3	Design Science Research	(4 C)
P.GMI.CM-4	Doctoral Candidate Seminar	(2 C)
P.GMI.CM-5	Seminar for Doctoral Candidates	(2 C)

b. Advanced methodology

One more of the following courses in the area of research methods amounting a total of 4 credits must be completed successfully:

P.GMI.ME-1	Qualitative Research	(4 C)
P.GMI.ME-2	Qualitative Research	(4 C)
P.GMI.ME-3	Development of Mobile Applications	(4 C)

P.GMI.ME-4	Planning Mobility and Transport	(4 C)
P.GMI.ME-5	Information Systems for Mobility Applications	(4 C)

In the area of advanced methodology, courses other than the named courses (alternative courses) can be approved on application and with the consent of the supervisory committee of the persons in-charge of the programme. For example, specialised courses for action research or other offers from the methods week of the GGG are suitable for this, likewise the courses provided by informatics in the area of technical foundations of the mobile communication and teleinformatics.

2. Key competences

At least 4 credits from the following courses from the course offerings by the GGG have to be completed:

- Time Management and Self-management During the Doctoral Studies and the Time Thereafter
- Project Management in International Contexts
- Project Management in a Business Environment
- Introduction to “Scientific German”
- Writing workshop I: “Drafting Exposés”
- Academic Writing and Publishing
- Good Scientific Practice
- Creative Career Management

In the area under key competency, courses other than the named courses (alternative courses) can be approved on applying for recognition for the consent of the supervisory committee of the persons in-charge of the programme.

It is expected from the doctoral candidates, besides successfully completing the courses, that they present their research results at international conferences and in front of a wide audience of experts and/or publish it in relevant academic journals. The supervisory committee provides intensive support for this.

II. Course descriptions

University of Göttingen
Doctoral degree programme in designing mobile information systems in the digital transformation

P.GMI.CM-1: Engaged IS Scholarship

Learning outcome, core skills:

This course addresses first and second year IS doctoral students and introduces them to three key competency areas for designing and conducting research as well as getting their work published in international IS conferences and journals. All of the discussed competencies are critical for "engaged scholarship" which refers broadly to research that matters to both academia and practice by building strong theory.

Workload:

4 C/2 WLH
 Attendance time: 28 hrs.
 Self-study time: 92 hrs.

Course and content:

The first competency area "Foundations" deals with basics and critical foundations including the differences between positivistic, interpretive, critical and instrumentalist research in IS, identifying and positioning oneself in an IS research stream, and formulating a research problem. The second competency area "The Nature of Theory and Making a Research Contribution" deals with the different types of theory in IS and develops an understanding of how to theorize in IS as well as crafting a theoretical and practical contribution. Further, fundamentals of theory building are discussed including abductive, deductive, and inductive reasoning. The third competency area "Research Process" deals with qualitative, quantitative and design science research methods.

2 WLH

Course assessment: Presentation

Assessment requirements:

Students have to demonstrate a strong understanding of the theoretical and methodological foundations of the material and to relate these to their own PhD project. To do so, students have to submit a presentation following a pre-defined structure and to give a related presentation during the seminar.

Admission requirements:

none

Recommended previous knowledge:

none

Language:

English, German

Person responsible for course:

Prof. Dr. Jan Muntermann

Course frequency:

Each winter semester

Recommended semester:

1-3

Number of repeat examinations permitted:

Twice

Maximum number of students:

15

University of Göttingen
Doctoral degree programme in designing mobile information systems in the digital transformation
P.GMI.CM-2: Wissenschaftstheorie / Philosophy of Science

Learning outcome, core skills:

This course addresses first and second year IS doctoral students and introduces them to the epistemological basics of research in three central dimensions: ontology (reality), epistemology (knowledge), and methodology. IS doctoral students learn how to identify appropriate research gaps, how to formulate promising research questions, and how to select and apply adequate theories, models, methods, and tools.

Workload:

4 C/1 WLH
Attendance time: 14 hrs.
Self-study time: 106 hrs.

<p>Course and content:</p> <p>This course offers an introduction to the epistemological basics of research: Assumptions in research are introduced and discussed concerning three central dimensions. First, assumptions are taught regarding ontology (reality). In design, science-oriented Information Systems Research (ISR) deals with different realities: On the one hand, the real world with real artifacts, e.g., software or hardware, on the other hand, the abstracted world with theoretical artifacts, e.g., concepts, models, or theories. These two worlds are interlocked by design science research (DSR). DSR uses already existing solutions, concepts, methods, models, theories, etc., to solve real life problems in different application domains. Often, real artifacts are developed (deduction). Simultaneously existing real artifacts and problem solutions are used to develop new theoretical and generalized artifacts (induction). The interlocked subjective reality of DSR is strongly driven by a problem solving way of thinking. Secondly, assumptions are taught regarding epistemology (knowledge). In the design science oriented ISR often instrumentalism and pragmatism dominate. Problem solving plays a key role and evaluation criteria like functionality, benefit, economic efficiency, acceptance, etc., are often more important compared to validity. Thirdly, also important methodical basics are taught including fundamental empirical and iterative approaches in DSR. Different kinds and basic procedures of DSR are introduced and discussed, e.g., a posteriori analyses of real artifacts already in use and a priori analyses of artifacts under development. Often this development is project-funded by the German BMBF/BMWi/BMU, the EU, the DFG or cooperating companies for many years. In these projects often groups of researchers both from science and companies also get new theoretical and generalizable findings and implications and thus can add theoretical knowledge for future problem solving.</p>		1 WLH
<p>Course assessment: Essay</p> <p>Assessment requirements: Students have to write a short essay in teams of 2 or 3 students. Supervision and feedback will be given by the lecturers.</p>		
<p>Admission requirements: none</p>	<p>Recommended previous knowledge: None</p>	
<p>Language: English, German</p>	<p>Person responsible for course: Prof. Dr. Michael H. Breitner and Dr. Nadine Guhr</p>	
<p>Course frequency: Each winter semester (blocked)</p>	<p>Recommended semester: 1-3</p>	
<p>Number of repeat examinations permitted: Twice</p>	<p>Maximum number of students: 15</p>	
<p>Additional information: The lecture is held at the Leibniz University Hannover</p>		

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.CM-3: Design Science Research	
Learning outcome, core skills: <p>This course addresses first and second year doctoral students primarily from the IS Field but also from other research areas and introduces them to the research paradigm of Design Science Research. Students will gain knowledge about theoretical and methodological foundations of Design Science Research, including research outputs (IT artefacts), research foundations, research processes and underlying assumptions.</p> <p>After completion of the course, students are able to bring design science in line with other research methods and research paradigms, also compared to the research traditions of other disciplines.</p> <p>In terms of meta-reflection, students will master a discussion of critical aspects and new forms of design related practices.</p> <p>For their own thesis, they will have broad competencies to develop and defend their own design science approach.</p>	Workload: 4 C/2 WLH Attendance time: 25 hrs. Self-study time: 95 hrs.
Course and content: <p>This course introduces the student to design science research and discusses the differences of natural science from behavioral science research. The relationship between design and research, the different types of IT artifacts, as well as methods for design science research are further core topics of this course. Finally, the course also teaches students more advanced topics in design science research such as theorizing principles and techniques as well as design science research as a research paradigm that can be combined with other social science methods such as action research.</p> <p>Competencies are acquired with basic literature, current research papers and in discussion of student's own research project.</p>	2 WLH
<div style="border: 1px solid black; padding: 5px;"> Course assessment: Two presentations and one portfolio Assessment requirements: Successful acquisition of the described competencies will be validated with two presentations (one team presentation) and a summarizing portfolio discussion. </div>	
Admission requirements: none	Recommended previous knowledge: none
Language: English, German	Person responsible for course: Prof. Dr. Susanne Robra-Bissantz
Course frequency: Each summer semester	Recommended semester: 1-3
Number of repeat examinations permitted: Twice	Maximum number of students: 15
Additional information: The lecture is held at Technische Universität Braunschweig	

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.CM-4: Seminar for doctoral students	
Learning objectives and skills: The seminar course serves as an in-depth study of the topic and a first examination of the progress of the doctoral project. This objective is addressed by means of two seminar courses: First, Phd candidates present their present progress and next steps with reference to the implementation programme fixed in the supervision agreement. By means of this possible problems and delays can be identified on early and solutions can be outlined. Secondly, research papers currently published in the relevant journals and topically relevant for the doctoral project are discussed.	Scope of the course: 2 C/1 WLH Attendance hours: 14 hrs. Self-study: 46 hrs
Course and contents: Seminar for doctoral students <div style="border: 1px solid black; padding: 5px;"> Performance record: Presentation Performance record requirements: Presentation of status quo of the doctoral project as well as its position in the current status of research within his/her own work area and updated research report </div>	1 WLH
Qualifications for entry: None	Recommended prior knowledge: None
Language: German, English	Course coordinator: Prof. Dr. Lutz M. Kolbe Prof. Dr. Jan Muntermann Prof. Dr. Matthias Schumann
Frequency of course: Each winter semester	Recommended semesters: 1-3
Reassessment: Twice	Maximum number of students: 15

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.CM-5: Doctoral candidate colloquium South East Lower Saxony (DoKoSON)	
Learning objectives and skills: The colloquium serves the purpose of verifying the progress of the doctoral project and to identify possible problems as early as possible. In addition, the colloquium serves the purpose of exchange and networking among the programme partners.	Scope of the course: 2 C/1 WLH Attendance hours: 14 hrs. Self-study: 46 hrs
Course and contents: In the colloquium, the PhD candidates present the current status of their research and engage in discussions with the professors and other doctoral candidates. For this purpose, the doctoral candidates first prepare a progress report and if necessary an updated implementation plan (within the meaning of the supervisory agreement). Furthermore, the candidates touch upon the current status of research in their own work area and present and discuss their own research papers.	1 WLH
<div style="border: 1px solid black; padding: 5px;"> Performance record: Progress report and presentation Performance record requirements: Preparing a progress report and if necessary an updated implementation plan Presentation of status quo of the doctoral project Successful participation in the workshops offered </div>	
Qualifications for entry: None	Recommended prior knowledge: None
Language: German, English	Course coordinator: Prof. Dr. Jan Muntermann
Frequency of course: Each winter semester	Recommended semesters: 1-3
Reassessment: Twice	Maximum number of students: 15

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.ME-1: Qualitative Forschungsmethoden / Qualitative Research Methods	
Learning outcome, core skills: IS doctoral students attending this course will learn how to/about: <ul style="list-style-type: none"> - Put a chosen philosophical perspective and ethics into qualitative research and publishing practice - apply a variety of advanced research methods in your qualitative research project (e.g., grounded theory, ethnography, engaged scholarship) - a variety of advanced qualitative data analysis techniques and how to apply them in your project (e.g., advanced triangulation, coding, sampling) - Theorize based on your qualitative data and how to make a theoretical contribution - Craft an engaging and convincing story at the level of top-tier journals to get your qualitative work published 	Workload: 4 C/2 WLH Attendance time: 28 hrs. Self-study time: 92 hrs.
Course and content: This course addresses first and second year IS doctoral students and introduces them to qualitative research methods commonly used in business information systems research, especially case study research. The course also introduces one of the key data collection techniques that is widely used in qualitative research, namely interviews, and discusses one of the key analytical tools for dealing with qualitative data, namely coding. Last, but not least, the course introduces approaches for writing up qualitative research.	2 WLH
<div style="border: 1px solid black; padding: 5px;"> <p>Course assessment: Presentation</p> <p>Assessment requirements:</p> <p>Students have to demonstrate profound knowledge of the methodological foundations of the material and to relate these to the own PhD project. To do so, students have to submit a presentation file following a pre-defined structure and to give a related presentation during the seminar.</p> </div>	
Admission requirements: none	Recommended previous knowledge: none
Language: English, German	Person responsible for course: Prof. Dr. Robert W. Gregory
Course frequency Each summer semester	Recommended semester: 1-3
Number of repeat examinations permitted: Twice	Maximum number of students: 15

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.ME-2: Quantitative research methods	
Learning objectives and skills: <ul style="list-style-type: none"> - The participants acquire the ability to independently develop and implement quantitative research designs in the context of structural equation modelling - The participants understand the method of variance based estimate of structural equation models and can independently estimate and interpret measurement and structural models - The participants become acquainted with further analysis techniques (higher-order constructs, mediation analysis, performance-importance analysis) and can apply these - The participants are in a position to present the analysis results in an appropriate form in academic publications 	Scope of the course: 4 C/2 WLH Attendance hours: 28 hrs. Self-study: 92 hrs.
Course and contents: Linear structural equation models are of great significance in information systems research. They enable the analysis of complex relationships between variables. In the process, it is possible to analyse not only the relationships between measurable but also latent variables, which cannot be directly observed. The objective of this course is to provide a research-oriented introduction to the theory and use of the modelling of structural equation models with PLS. The focus is on questionnaire-based cross sectional studies. Typical research designs are presented and discussed at the beginning for the practical implementation. A theoretical introduction to the PLS-based estimate, the evaluation of quality criteria of measurement models as well as the evaluation of path models. As further analysis techniques the focus topics "Higher-order Constructs", "Mediation analysis" and "Performance-Importance analysis" are presented and explained with the help of examples. Finally, contiguous methods for testing of non-response bias and common method variance are discussed.	2 WLH
Performance record: Presentation with written elaboration	
Performance record requirements: <ul style="list-style-type: none"> • A specified journal article in the form of a PowerPoint presentation has to be prepared for one of the focus topics: Higher-order Constructs, Mediation analysis and Performance-Importance analysis. This includes the presentation of the research model and design, the content-related implementation of the main topic, and the discussion on the quality of the estimated results. • After the workshop, the contents of the Power Point presentation including bibliography and the results of the discussion of the paper have to be put down in writing. 	
Qualifications for entry: None	Recommended prior knowledge: None

Language: German	Course coordinator: Dr. Simon Trang
Frequency of course: Each winter semester	Recommended semesters: 1-3
Reassessment: Twice	Maximum number of students: 15

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.ME.3: Development of mobile applications	
Learning objectives and skills: <ul style="list-style-type: none"> - The participants gain knowledge about the development and operation of mobile applications. - The participants independently guide development and/or project teams in the conception and implementation of mobile applications. - The participants learn to evaluate the project progress and the results of a development project from a specialist and technical perspective. - The participants are in a position to evaluate the strengths and weaknesses of application concepts, which were implemented with the help of a development environment and various basic technologies. 	Scope of the course: 4 C/2 WLH Attendance hours: 28 hrs. Self-study: 92 hrs.
Course and contents: The development of mobile applications differs from classical applications not just in the requirements (e.g. architecture, security problems, usability) but also with regard to the technologies used (e.g. Web Services) and development approaches (native, hybrid or web-based). These general conditions have to be considered while selecting suitable programming languages and environments. The session deals with the various aspects of developing mobile applications.	2 WLH
Performance record: Written summary Performance record requirements: Written summary for assessment of application concepts/implementation approaches	
Qualifications for entry: None	Recommended prior knowledge: Basic programming knowledge is required
Language: German, English	Course coordinator: Prof. Dr. Matthias Schumann
Frequency of course: Each winter semester	Recommended semesters: 1-3
Reassessment: Twice	Maximum number of students: 15

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.ME-4: Planning mobility and transport	
Learning objectives and skills: Modern information systems support mobility and transport services by means of an efficient planning functionality. That ensures a high service quality with optimum resource utilisation. The lecture presents quantitative planning methods for mobility and transport. In particular, one looks into various planning horizons (strategic, tactical, and operative) and the relevant planning models. Among others, the students acquire methodical expertise in the following areas: Location planning, transport planning, route planning, modelling of transport and logistics networks.	Scope of the course: 4 C/2 WLH Attendance hours: 28 hrs. Self-study: 92 hrs.
Course and contents: Teaching content deals with the modelling of logistic networks, the location and transport planning, the travelling salesman problem and the fleet routing of vehicles. Literature: Vahrenkamp, R. Mattfeld, D. C (2007). Logistics networks - models for choice of location and route planning	2 WLH
<div style="border: 1px solid black; padding: 5px;"> Performance record: Written examination (60 minutes) </div>	
Qualifications for entry: None	Recommended prior knowledge: None
Language: German, English	Course coordinator: Prof. Dr. Dirk C. Mattfeld
Frequency of course: Each winter semester	Recommended semesters: 1-3
Reassessment: Twice	Maximum number of students: 15
Comment: Taking place at the University of Brunswick – Institute of Technology	

University of Göttingen Doctoral degree programme in designing mobile information systems in the digital transformation P.GMI.ME-5: Information systems for mobility applications	
Learning objectives and skills: <ul style="list-style-type: none"> • Students can name the organisation and component of information systems in transport and traffic and describe their contents. • They are in a position to classify information systems in transport and traffic as per their range (steering / performance systems). • The connection between the information and planning function is identified. • Students can conceptualise the integration of various information systems and outline their technological implementation. • The students know the reference models and their possible application in transport and traffic. • Concepts of information systems discussed with the help of examples of applications can be transferred to new business-related questions. 	Scope of the course: 4 C/2 WLH Attendance hours: 28 hrs. Self-study: 92 hrs.
Course and contents: The lecture models and analyses information systems for applications in transport, logistics, and traffic. Specifically the following thematic blocks are being addressed: - Transport and traffic: Basic terms and macroeconomic classification of the subject area. Demarcation of transport, traffic and logistics. - The traffic information system: With the help of introductory examples the information system in transport and traffic is defined. The lecture gives a classification of the information system in steering and performance systems. -Technology: A current overview about the technology of tracking systems and wireless communication is given. This supports fundamental tasks of information systems in transport and traffic. -Steering systems: With the help of application examples from logistics (route planning), from the public mass passenger transport and from air traffic information systems to support planning, monitoring and control (steering systems) are discussed. - Performance systems: Performance systems support the realisation of services in transport and traffic. In the lecture these are explained using the example of car-sharing applications, information systems, management systems and accounting systems in public transport, as well as looking at dynamic price control in air transport. - Integration of steering systems and performance systems using the example of integrated application systems in goods transport and in public transport. Data modelling, data integration, functional integration.	2 WLH
Performance record: Written examination (60 minutes)	
Qualifications for entry: None	Recommended prior knowledge: None
Language:	Course coordinator:

German, English	Prof. Dr. Dirk C. Mattfeld
Frequency of course: Each winter semester	Recommended semesters: 1-3
Reassessment: Twice	Maximum number of students: 15
Comment: Taking place at the University of Brunswick – Institute of Technology	

Annex 5: Cover sheet of the dissertation (revoked)

Appendix 6: Examination certificate

University of Göttingen
Faculty of Economic Sciences

Certificate regarding the doctoral examination

Mr / Ms born on in

has passed the doctoral examination in accordance with the examination regulations for the doctoral programme in economic sciences of.....

after successfully participating in the doctoral programme [if relevant; if required name RTG or special doctoral programme]

with the overall grade of..... on.....

Courses in doctoral studies /doctoral programme [delete as applicable]

Credits

- 1)
- 2.
- 3
- 4.
- 5.
- 6.

Topic of the dissertation:

.....

.....

Grade of the dissertation:

Grade of the oral defense

Göttingen, den

The Dean

Appendix 7: Ph.D. certificate

The University of Göttingen

under the president

.....

awards

through its Faculty of Economic Sciences

under its Dean

.....

the university degree of a doctor of Economic Sciences (Dr. rer. pol.) to

.....

born on..... in

after he or she has obtained by successfully participating in the doctoral programme [if required name RTG or special doctoral programme]

as well as in the proper examination procedure by means of the dissertation

.....

.....

.....

(Title of the dissertation)

as well as the oral examination

on

in the regular examination procedure and thus acquired the overall grade of

.....

.

Göttingen,(date)

(Seal of the University)

The Dean