

**Modulhandbuch für den Studiengang Environmental and Resource Management
(universitäres Profil),
Doctor of Philosophy, Prüfungsordnung 2017**
Inhaltsverzeichnis

Total Account

Mandatory Modules

12238 Essentials of Grant Proposal Writing	2
12241 PhD Thesis Writing Skills	4
12242 Status Seminar ERM: Progress Reports PhD Thesis	7
12243 Academic Research and Methods	9
12244 Research Colloquium	11

Erläuterungen	13
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Module 12238 Essentials of Grant Proposal Writing

assign to: Mandatory Modules

Study programme Environmental and Resource Management

Degree	Module Number	Module Form
Doctor of Philosophy	12238	Mandatory

Modul Title	Essentials of Grant Proposal Writing
	Grundlagen der Antragstellung für Drittmittelprojekte
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr. rer. pol. Gailing, Ludger
Language of Teaching / Examination	English
Duration	2 semesters
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	PhD students develop the capacity to advance their own research by learning about the methodology of grant proposal writing and preparing a first version of a grant proposal themselves. They learn to research and identify suitable funding organizations, how to establish contacts and build networks to funding institutions and organizations that are of relevance for institutionalizing their research.
Contents	While preparing a first version of a grant proposal, PhD students become familiar with funding institutions and their goals, contents, methods, which are relevant for the further development of their respective field of research and learn about "dos and don'ts" in grant proposal writing.
Recommended Prerequisites	For PhD students of Environmental and Resource Management, it is recommended to have passed the module "Academic Research and Methods" before taking this module. For PhD students of Heritage Studies, it is recommended to have passed the module "Theories / Methods" before taking this module.
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 2 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	will be announced at the beginning of the seminar.
Module Examination	Continuous Assessment (MCA)

Assessment Mode for Module Examination	- Interim presentation on the subject, 20 min (20%) - Development and submission of a written grant proposal by the end of the teaching period (80%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.
Module Components	In winter semester (start of the module): • Seminar “Essentials of Grant Proposal Writing - Part 1” (2SWS) In summer semester: • Seminar “Essentials of Grant Proposal Writing - Part 2” (2SWS)
Components to be offered in the Current Semester	640610 Seminar for doctoral candidates Essentials of Grant Proposal Writing – Part 1

Module 12241 PhD Thesis Writing Skills

assign to: Mandatory Modules

Study programme Environmental and Resource Management

Degree	Module Number	Module Form
Doctor of Philosophy	12241	Mandatory

Modul Title	PhD Thesis Writing Skills
	Schreibkompetenzen PhD Thesis
Department	Faculty 2 - Environment and Natural Sciences
Responsible Staff Member	Prof. Dr. Webber, Heidi
Language of Teaching / Examination	English
Duration	2 semesters
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	The module helps PhD students to develop their writing skills as young researchers. Unlike a master's thesis, writing a doctoral dissertation is a substantial project and a new experience for most PhD candidates. In addition to developing their writing skills, PhD students must develop other skills, such as time management and planning the writing process. They also need to learn how to integrate their sources. The module combines lectures, group work, student presentations and exercises. It is divided into three consecutive parts. By the end of the module, the PhD candidates should be able to overcome the challenges of writing a coherent and clear dissertation.
Contents	Part 1 – Writing a Dissertation: Common Concerns - Kick-Off Workshop with Professor Raab, Dr. Bonhage and R. Rode (1h 30m) In the kick-off workshop, the instructors introduce the participants to the module. The workshop discusses the content and requirements of the module, including those for monographs and article-based PhD theses. - Online Workshop “Introduction to the TwentyOne Skills Learning Hub” (1h) This online workshop introduces the participants to using the online learning platform in part 2. The platform contains mandatory self-study courses. Part 2 – Clarity and Effectiveness <u>Self-study Units (TwentyOne Skills Learning Hub*):</u> - Time-Management: Seven Techniques for More Efficiency (2h 10m)

- Scientific Writing (1h 15m)
- Forms of Plagiarism and How to Avoid Them (1h 20m)
- Good Scientific Practice: Introduction and General Principles (1h 30m)

* The TwentyOne Skills Learning Hub is an online platform that offers on-demand self-study courses. The GRS has obtained licenses for doctoral and postdoctoral researchers at BTU. We will provide each participant with access to the learning hub. Moreover, we will ask the provider, TwentyOne Skills, to offer an introductory online workshop to explain how the platform works. Upon completing each self-study course, the participants will obtain a certificate proving they finished the course.

Self-study Units (University Library**):

- Zotero Referencing Software (20m)
- How to Publish Your Thesis (1h)

** The University Library offers these self-study courses through Moodle. Although participants will not receive a certificate upon completion, the module's assessment covers these topics (consistent citation, working plan for completing and publishing the thesis).

Part 3 – Strategies for a Logical Structure

- Final Q&A Workshop with Professor Raab, Dr. Bonhage, and R. Rode (1h 30m)

The final workshop serves to answer the participants' questions concerning the structure of the dissertation and the submission of the final assignments (i.e., working plan, long outline and draft text)

Recommended Prerequisites

For PhD students of Environmental and Resource Management, it is recommended to pass the module „Academic Research and Methods“ before taking this module.
For PhD students of Heritage Studies it is recommended to pass the module “Theories / Methods” before taking this module.

Mandatory Prerequisites

none

Forms of Teaching and Proportion

Seminar - 2 hours per week per semester
Self organised studies - 120 hours

Teaching Materials and Literature

Recommended readings:

Bailey, S. 2006, Academic Writing. A Handbook for International Students, London and New York, Routledge
Deane, M. 2010, Inside Track to Academic Research, Writing & Referencing, Harlow, Pearson Education Limited
Gillet, A. et al. 2009: Inside Track to Academic Research, Writing & Referencing, Harlow, Pearson Education Limited
Murray, N. and Beglar, D. 2009, Writing Dissertations & Theses, Harlow, Pearson Education Limited
Thody, A. 2006, Writing and Presenting Research, Sage, London, 2006
Wallace, M. and Wray, A. 2011, Critical Reading and Writing for Postgraduates, London, Sage

Williams, J. M. et al. 2007, Style: Lessons in Clarity and Grace, Pearson Longman, New York

Module Examination

Continuous Assessment (MCA)

Assessment Mode for Module Examination

- Active participation in the workshops and completion of all self-study units (certificates provided by TwentyOne Skills and the University Library) (20 %)
- Working plan for completing and publishing the PhD thesis (Gantt Chart) (20 %)
- Long outline PhD thesis (i.e., table of contents with short comments summarising each chapter and section) (30 %)
- Draft text 3-5 pp. (e.g., section from literature review) (30 %)

Evaluation of Module Examination

Performance Verification – graded

Limited Number of Participants

none

Remarks

None

Module Components

240466 Seminar for doctoral candidates PhD Thesis Writing Skills

Components to be offered in the Current Semester

240466 Seminar for doctoral candidates
PhD Thesis Writing Skills - 2 Hours per Term

Module 12242 Status Seminar ERM: Progress Reports PhD Thesis

assign to: Mandatory Modules

Study programme Environmental and Resource Management

Degree	Module Number	Module Form
Doctor of Philosophy	12242	Mandatory

Modul Title	Status Seminar ERM: Progress Reports PhD Thesis Status Seminar ERM: Aktueller Stand und Fortschritte des Dissertationsprojekts
Department	Faculty 2 - Environment and Natural Sciences
Responsible Staff Member	Prof. Ph. D. Rütting, Louise
Language of Teaching / Examination	English
Duration	3 semesters
Frequency of Offer	Every semester
Credits	6
Learning Outcome	The class aims at giving an overview of the state of the PhD theses of participants. Aims, objectives, methods, work plan, and results of the thesis will be presented and critically discussed with fellow students in the presence of the supervisor. By the end of the seminar, doctoral candidates should be able to present their research to an interdisciplinary audience. There should also be able to christally examine and question their methods and results. They should also engage with research topics outside their own field.
Contents	The content is changing each semester, It is defined by the contributions of the PhD students who are due to present. The sequence of presentations is organized by the PhD administration in accordance with students and supervisor. Doctoral students learn the fundamentals of scientific communication by putting them into practise, for example by creating, structuring and presenting posters and lectures. They also learn to think critically about their research, for instance by engaging in critical self-reflexion and considering alternative perspectives. The content is changing each semester and is defined by the contributions of the PhD students who are due to present. The order of presentations is organised by the PhD administration in accordance with students and supervisors.
Recommended Prerequisites	None
Mandatory Prerequisites	none

Forms of Teaching and Proportion	Seminar - 2 hours per week per semester Self organised studies - 90 hours
Teaching Materials and Literature	None
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	First presentation 10 min. of a poster (20%) Second presentation ca. 30 min. with talk and discussion of the results (40%) Third presentation towards the end of the research work 20 min. and with talk and discussion of the results (40%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	None
Module Components	Every summer and winter semester: • Seminar Postgraduate Research Seminar (2SWS)
Components to be offered in the Current Semester	240799 Seminar Postgraduate Research Seminar

Module 12243 Academic Research and Methods

assign to: Mandatory Modules

Study programme Environmental and Resource Management

Degree	Module Number	Module Form
Doctor of Philosophy	12243	Mandatory

Modul Title	Academic Research and Methods
	Wissenschaftliches Arbeiten und Methoden
Department	Faculty 2 - Environment and Natural Sciences
Responsible Staff Member	Prof. Dr. rer. pol. Wätzold, Frank
Language of Teaching / Examination	English
Duration	2 semesters
Frequency of Offer	Every semester
Credits	6
Learning Outcome	The module will introduce PhD-students to academic research and enhance their skills in applying scientific methods. PhD-students will learn the differences, advantages and challenges of disciplinary versus interdisciplinary research in environmental sciences. PhD-students will learn how to identify international journals for their work and how to develop appropriate publication strategies. They will also learn how to present their work to an international workshop audience.
Contents	Reasons for publishing in international journals. Developing an appropriate publication strategy and selection of adequate journals. How to write different parts of a paper (title, abstract, introduction etc.). Submitting a paper and adequately addressing possible responses of reviewers and editors. Ethical aspects when publishing papers. Application of scientific methods in different disciplinary and interdisciplinary contexts. Advantages and challenges of disciplinary versus interdisciplinary work. Abstract submission, oral presentations, and posters on international conferences. Practicing conference presentations by presenting own research/scientific methods by lecturer, PhD-students and subsequent discussions. Invitation of guest speakers.
Recommended Prerequisites	None
Mandatory Prerequisites	None
Forms of Teaching and Proportion	Lecture - 2 hours per week per semester Seminar - 2 hours per week per semester Self organised studies - 120 hours

Teaching Materials and Literature	Slides and lecture notes. Suggested reading: Tress, G., Tress, B., Saunders, D.S. 2014. How to write a paper for successful publication in an international peer-reviewed journal. Pacific Conservation Biology 20(1), 17-24. (http://wentworthgroup.org/wp-content/uploads/2014/03/Tress_Tress-Saunders_2014_Pac_Cons_Biol.pdf). Further reading will be recommended during the seminar.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	Presentation incl. discussion of the results, 15 min. (40%) Discussion of the results, 15 min. (40%) Active Participation (20%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	Start of programme is every summer semester.
Module Components	In summer semester: • Colloquium Research Colloquium (2SWS) • Lecture/Seminar Scientific Working (ERM PhD) (2SWS) In summer and winter semester: • Colloquium Research Colloquium (2SWS)
Components to be offered in the Current Semester	240904 Colloquium Research Colloquium - 2 Hours per Term

Module 12244 Research Colloquium

assign to: Mandatory Modules

Study programme Environmental and Resource Management

Degree	Module Number	Module Form
Doctor of Philosophy	12244	Mandatory

Modul Title	Research Colloquium Forschungskolloquium
Department	Faculty 2 - Environment and Natural Sciences
Responsible Staff Member	Prof. Ph. D. Rütting, Louise
Language of Teaching / Examination	English
Duration	2 semesters
Frequency of Offer	Every semester
Credits	6
Learning Outcome	This module enables students to present, discuss and – at the end of the module – validate problems and challenges in their PhD research and present possible solutions. The students will further develop their skills and competencies: scientific research and analysis skills, communication skills, problem-solving skills, competencies for concept development and project management.
Contents	This module is concerned with varying contents according to the PhD research of the individual students and the main areas of research of the chairs and departments they are affiliated to. The module will be attended for two semesters. In the first semester, students present and discuss current problems and challenges in their PhD research and receive feedback from their supervisor as well as fellow PhD students. At the end of the second semester, students present a validation of their discussed problems and challenges and possible solutions and receive, again, feedback.
Recommended Prerequisites	None
Mandatory Prerequisites	None
Forms of Teaching and Proportion	Seminar - 2 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Bibliography will be presented during the seminar.
Module Examination	Final Module Examination (MAP)

Assessment Mode for Module Examination	Presentation incl. discussion (45 min.) on solutions to problems and challenges within the PhD research (validation)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Remarks	Capacity to be determined by the respective chairs and departments.
Module Components	In winter semester: • Research Colloquium of the Chair you are affiliated to (2SWS) In summer semester: • Research Colloquium of the Chair you are affiliated to (2SWS) PhD students will attend the research colloquium offered by the chair or departments they are affiliated to. PhD students affiliated to chairs or departments, which do not offer their own research colloquium, will choose a colloquium at another chair department upon 1) consultation and in agreement with their supervisor and 2) after consultation and in agreement with the chair or department whose research colloquium the student plans to attend. The minimum duration of participation is two semesters.
Components to be offered in the Current Semester	240512 Seminar Seminar Abschlussarbeiten Gewässerschutz / Doktorandenseminar 110305 Colloquium Medienwissenschaftliches Doktorandenkolloquium - 2 Hours per Term 240904 Colloquium Research Colloquium - 2 Hours per Term 620407 Colloquium Research Colloquium - 2 Hours per Term 620504 Colloquium Kolloquium für Fortgeschrittene (Masterstudierende, Doktoranden, Habilitanden) - 2 Hours per Term 230770 Seminar for doctoral candidates Hydraulic Engineering and Treatment & processing of drinking water, ground water and domestic water - 2 Hours per Term 240633 Seminar for doctoral candidates Colloquium - Hydroinformatics and Environmental Informatics - 2 Hours per Term 240710 Seminar for doctoral candidates Colloquium - Ecology - 1 Hours per Term 520250 Seminar for doctoral candidates Research Colloquium - 2 Hours per Term 640690 Seminar for doctoral candidates Research Colloquium INSTA - 2 Hours per Term

Erläuterungen

Das Modulhandbuch bildet als Teil der Prüfungsordnung die Rechtsgrundlage für ein ordnungsgemäßes Studium. Darüber hinaus soll es jedoch auch Orientierung bei der Gestaltung des Studiums geben.

Dieses Modulhandbuch wurde am 21. September 2026 automatisch für den Strukturiertes Promotionsstudium-Studiengang Environmental and Resource Management (universitäres Profil), PO-Version 2017, aus dem Prüfungsverwaltungssystem auf Basis der Prüfungsordnung generiert. Es enthält alle zugeordneten Module einschließlich der ausführlichen Modulbeschreibungen mit Stand vom 21. September 2026. Neben der Zusammensetzung aller Veranstaltungen zu einem Modul wird zusätzlich das Veranstaltungsangebot für das jeweils aktuelle Semester gemäß dem Verzeichnis der BTU ausgegeben.

The module catalogue is part of the examination regulation and as such establishes the legal basis for studies according to the rules. Furthermore, it should also give orientation for the organisation of the studies.

This module catalogue was generated automatically by the examination administration system on the base of the examination regulation on the 21 September 2026, for the Strukturiertes Promotionsstudium of Environmental and Resource Management (research-oriented profile). The examination version is the 2017, Catalogue contains all allocated modules including the detailed module descriptions from 21 September 2026. Apart from the composition of all components of a module, the list of lectures, seminars and events for the current semester according to the catalogue of lectures of the BTU is displayed.