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SEIT 1386

FACULTY OF CHEMISTRY AND EARTH SCIENCES

In collaboration with:

INSTITUTO DE GEOGRAFIA
(UC) PONTIFICIA UNIVERSIDAD CATÒLICA DE CHILE

DEPARTAMENTO DE GEOGRAFIA
(UdeCH) UNIVERSIDAD DE CHILE

Master's Degree Programme

(MSc) Governance of Risk and Resources (GovRR)

Module Handbook

Version dated	30 September 2020
Type of programme:	Full-time/Part-time
Type of degree programme:	Postgraduate degree programme (consecutive)
Standard period of study:	Three semesters
Specialist fields:	Geography, Physical geography, Human geography, Geoinformatics
Place of study:	Santiago, Chile (with the possibility of a semester abroad in Heidelberg)
Language of instruction:	Spanish and English
Number of ECTS credit points (CP) gained throughout the degree programme:	90
Number of places available in the programme:	25
Application required:	Admission-restricted
Fees / Contributions:	payable in accordance with Heidelberg University Fee Regulations for the Master's Degree Programme in Governance of Risk and Resources

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I. Qualification Objectives and Overview of the Degree Programme

1. Heidelberg University Qualification Objectives in Student Affairs and Teaching

In keeping with Heidelberg University's mission statement and constitution, degree programmes provide comprehensive academic training, and incorporate subject-specific, cross-disciplinary, and career-related objectives to prepare students for their future careers.

The resulting competency profile serves as a valid qualification profile that is included in the module handbook for all university disciplines and is implemented in the specific qualification objectives, curricula, and modules of each degree programme:

- Development of subject-specific competencies, with a particular emphasis on research;
- Development of skills required for transdisciplinary dialogue;
- Development of practical problem-solving skills; Development of personal and social skills;
- Promotion of students' readiness to assume social responsibility on the basis of the skills acquired.

2. Qualification Profile and Qualification Objectives of the Master's Degree Programme in Governance of Risk and Resources

During the Master's degree programme in Governance of Risk and Resources, students build on knowledge and skills gained in an undergraduate degree programme in Geography or in a related subject, by acquiring further theoretical and practical skills which prepare them for employment or further research. The programme is designed to qualify students for research-based positions in the fields of environmental and landscape planning, resource evaluation and management, development cooperation, nature conservation and environmental protection, geoecology and eco-management, climate research, urban, regional, and land planning, business development, business and political consultancy, geoinformatics and remote sensing, public relations, and the insurance sector.

Graduates of the Master's degree programme in Governance of Risk and Resources possess thematic and methodological knowledge in specialist areas, and are able to work according to scientific standards. This enables them to identify, assess, and supervise governance processes. In addition, they are able to prepare and assess expert reports.

Supervision and Assessment of Governance Processes

Graduates have acquired broad knowledge of the challenges involved in the governance of resources and collective goods, as well as societal risk management. They understand the governance of problems relating to human-environment interactions as a process which must be constantly managed in view of spatiotemporal and contextual conditions. Students are aware that governance processes can fail, or can have unintended consequences. Alongside the actors who participate in, or take responsibility for governance processes, mechanisms which ensure appropriate coordination of knowledge are also of central importance in analysis. Students have been trained to identify both common and conflicting aims of the various actors involved in governance processes. In addition, they are able to describe (un)favourable assemblages of power and resourcing within governance processes. In particular, they are able to assess the role of heterogeneous, but also complementary knowledge resources for the resolution of collective goods problems or problems related to the organisation and coordination of governance processes.

Specialist Content and Methodological Knowledge

Graduates of the Master's degree programme possess specialist knowledge in the fields of the natural and social sciences. In addition, they have become familiar with analytical methods which they are able to apply to concrete examples of interrelated problems: (a) They are able to utilise geographical information systems to

collect, process, organise, analyse and present spatial data and subsequently clarify interrelated spatial problems.(b) They are able to use qualitative methods from social science research (e.g. structured interviews with experts) to deduce the relevance of practical knowledge for heuristic approaches to decision-making in governance processes.(c) Students are also able to use quantitative methods from social science research (e.g. statistics, social network analysis etc.) to analyse the dependencies and interdependencies between variables (or actors). Students apply this methodological and thematic knowledge in so-called Governance Case Study Analyses.

Working According to Scientific Methods

Graduates have learnt to work independently to acquire knowledge in new subject areas, to evaluate information, and to arrive at practical conclusions that take into consideration both social and ecological factors. Through a research placement, students learn to independently develop a scientific research question on the basis of a real-world problem relating to human-environment interactions. They have developed the ability to work through a scientific research question by drawing on current research and a range of scientific methods, analytical thinking skills, and reasoning, to offer additional findings and conclusions. They are able to present such findings in written and oral formats for both specialist and lay audiences, and are able to convincingly defend their conclusions.

Preparation and Assessment of Expert Reports

Graduates of the Master's degree programme are able to independently produce expert reports on specific problems relating to human-environment interactions. They are able to explain the core interrelations between problems and put forward recommended solutions for their collective societal management (governance). In addition, they have learnt to apply their specialist knowledge to critically assess expert reports from third parties. For example, graduates are able to identify and assess strategic (political) discourse based on expert reports, and subsequently evaluate its social utility.

3. Overview of the Degree Programme

Compulsory modules:

- (CM01) Governance of Human-Environment Interactions in Theory and Practice
- (CM02) Resource Governance
- (CM03) Risk Governance
- (CM04) Research Methods
- (CM05) Student Research Project
- (CM06) Master's Thesis

Compulsory Elective Modules:

- (OP01) Further Natural Sciences
- (OP02) Further Social Sciences
- (OP03) Governance Case Study Analysis

Please note:

As stated in the Examination rules and regulations, compulsory elective modules may be taken multiple times.

4. Model Curriculum for the Master's Degree Programme (Exemplar)

	<u>Compulsory modules</u> 60 CP	<u>Compulsory elective modules</u> 30 CP
1st sem. 30 CP	Governance of Human-Environment Interactions in Theory and Practice CM01 (6 CP)	Further Natural Sciences OP01 (6 CP)
	Resource Governance CM02 (6 CP)	Further Social Sciences OP02 (6 CP)
	Research Methods CM04 (6 CP)	
2nd sem. 30 CP	Risk Governance CM03 (6 CP)	Further Natural Sciences OP01 (6 CP)
	Student Research Project CM05 (6 CP)	Further Social Sciences OP02 (6 CP)
		Governance Case Study Analysis OP03 (6 CP)
3rd sem. 30 CP	Master's Thesis 30 CP	

5. Special Features of the Degree Programme

Reason for Cumulative Examinations

- In some modules, examinations will take different formats (e.g. a written examination and term paper). This is intended to assess different competencies. In addition, the curricula offer students a huge degree of choice between seminars on diverse topics. This means that even where examinations take the same format e.g. two term papers, they will generally relate to different topics. As such, multiple examinations enable the assessment of the different skills acquired by students.
- Since the skills to be acquired in modules are very heterogenous and clearly differentiated, it is considered beneficial to test these in multiple, specific individual examinations, rather than in a single, final module exam.

Note:

Wherever multiple or flexible examination formats are noted in the Module handbook, specific information relating to examinations (registration, requirements, format) will be provided punctually at the beginning of the relevant module. This is particularly true of compulsory elective modules which are taught at partner universities and in which certain content will be included as part of an irregular teaching cycle.

II. Module Descriptions

CM01: Governance of Human-Environment Interactions in Theory and Practice Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Governance of Human-Environment Interactions in Theory and Practice		
Module code	CM01		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	Lecture with practice class		
Type of module	Compulsory module		
Final module grade	<ul style="list-style-type: none"> • Written and oral presentation of results from the practice class • Written examination • Term paper 		
Total contact time	4 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Group work and presentation • Written examination • Term paper 		
Credits	6 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Lecture with practice class: Introduction to Governance Research (Theory and Practice)	6 CP	180 hours
	Participation in the lecture and practice class (including preparation and review of the content)	3 CP	90 hrs.
	Research in scientific literature to inform development of term paper and preparation of presentations	3 CP	90 hrs.

Content and qualification objectives	<p>CM01: Governance of Human-Environment Interactions in Theory and Practice</p> <p>Students are able to differentiate between various approaches taken in multidisciplinary governance research and are able to apply these to specific contexts and cases to offer analytical description of problems arising from human-environment interactions. They develop their own position in regard theoretical and practical applications of governance research and are able to record and evaluate the strengths and weaknesses of each approach. Students are also able to apply scientific insights to specific local and regional structures and problematics. They are able to work through scientific literature independently, to critically analyse the content, present it to a group, and engage in further discussion about it.</p>
Content	<p>This module introduces students to governance research and encourages critical discussion of theoretical arguments and concepts on the basis of empirical case studies. In (group) practice classes, different approaches to governance are examined in regard the extent to which they constitute collective solutions for problems arising from human-environment interactions. Through this module, students learn to understand governance as a process, and become aware of the need for governance to be constantly managed in view of spatiotemporal and contextual factors. Students become aware of the fact that governance processes can fail, or can have unintended consequences. As well as institutional frameworks which influence governance processes, analysis also focuses on the actors who take part in governance, who have responsibility, and who initiate collective knowledge processes.</p>
Application of the module	Master's degree programme GovRR
Admission requirements	None
Teaching location	Santiago, Chile (Heidelberg Center for Latin America)
Course offered	Annually (in the first semester each year)
Recommended semester	First semester
Organisational points	This module is taught by multiple lecturers who ensure that the content is coordinated and logically structured. The languages of instruction are Spanish and/or English.

CM02: Resource Governance

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Resource Governance		
Module code	CM02		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	Lecture with practice class		
Type of module	Compulsory module		
Final module grade	<ul style="list-style-type: none"> • Presentations • Written and oral presentation of results from the practice class • Term paper 		
Total contact time	4 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Reaction Paper • Term paper • Group work and presentation 		
Credits	6 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Lecture with practice class: Resource Governance	6 CP	180 hours
	Participation in the lecture and practice class (including preparation and review of the content)	3 CP	90 hrs.
	Research in scientific literature to inform development of term paper and preparation of presentations	3 CP	90 hrs.

Content and qualification objectives	CM02: Resource Governance Students are familiar with various procedures used to evaluate the characteristics and availability of natural and socio-economic resources, to determine their societal worth, and the challenging impacts which arise from their usage. For example, students are able to identify diverse (geographical) conflicts of use associated with the exploitation of resources. They are able to develop rules and mechanisms of governance to respond to resource challenges in specific contexts. The students are able to work through scientific literature independently to critically analyse theoretical and empirical content. They are able to present and discuss this content in both written and oral formats.
Content	This module familiarises students with the foundational theoretical concepts used to document and assess natural and economic resources. Political-economic approaches to resource management are compared to political-ecological approaches to resource justice. Drawing on concrete examples, the module considers the societal and ecological impacts arising from the valorisation of resources. The module also illustrates the various organisational challenges and issues around spatial management which are associated with resource-based development. Focusing on the practical aspects of governance, the challenges of balancing economic, social, cultural and ecological values are discussed, and the applicability of different approaches to finding consensus are reviewed.
Application of the module	Master's degree programme GovRR
Admission requirements	None
Teaching location	Santiago, Chile (Heidelberg Center for Latin America)
Course offered	Annually (in the first semester each year)
Recommended semester	First semester
Organisational points	This module is taught by multiple lecturers who ensure that the content is coordinated and logically structured. The languages of instruction are Spanish and/or English.

CM03: Risk Governance

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Risk Governance		
Module code	CM03		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	Lecture with practice class		
Type of module	Compulsory module		
Final module grade	<ul style="list-style-type: none"> • Term paper • Presentations • Written, oral, and video presentation of the results from the practice class 		
Total contact time	4 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Presentations • Term paper • Group work and presentation • Video production 		
Credits	6 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Lecture with practice class: Risk Governance	6 CP	180 hours
	Participation in the lecture and practice class (including preparation and review of the content)	3 CP	90 hrs.
	Research in scientific literature to inform development of term paper and preparation of presentations	3 CP	90 hrs.

Content and qualification objectives	<p>CM03: Risk Governance</p> <p>Students become familiar with scientific, social, and economic perspectives on risk. They have learnt about different procedures which enable the level of risk to be assessed in varied situations. They know the context-specific challenges arising from the recognition, numerical calculation, and communication of risk in governance processes. They have learnt to identify heterogeneous, but also complementary sources of knowledge in governance processes relating to risk, and know how to make effective use of these to solve issues relating to the recognition, calculation, and communication of risk. The students are able to work through scientific literature independently to critically analyse theoretical and empirical content. They are able to present and discuss this content in both written and oral formats and can present the information using media including maps, as well as digital formats.</p>
Content	<p>This module familiarises students with the foundational theoretical concepts from risk research and equips them with knowledge relating to scientific methods to assess and model natural, social, and economic risks, as well as their societal and environmental consequences. The module also considers the various organisational challenges and issues around spatial management which are associated with risk governance. Risk communication is addressed as a central principle of risk governance. Concrete examples are used to demonstrate communication problems within risk governance processes, and potential solutions are developed. The advantages and disadvantages of visualisation and communication of certain risks are introduced using maps.</p>
Application of the module	Master's degree programme GovRR
Admission requirements	None
Teaching location	Santiago, Chile (Heidelberg Center for Latin America) or in Heidelberg (Institute of Geography) as part of a semester abroad
Course offered	Annually (in the second semester each year)
Recommended semester	Second semester
Organisational points	This module is taught by multiple lecturers who ensure that the content is coordinated and logically structured. The languages of instruction are Spanish and/or English.

CM04: Research Methods

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Research Methods		
Module code	CM04		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	1. Lecture with practice class on scientific theory (1 WCH) 2. Lecture with practice class on social network analysis (1 WCH) 3. Lecture with practice class on geoinformatics (2 WCH) 4. Lecture with practice class on statistics (1 WCH)		
Type of module	Compulsory module		
Final module grade	<ul style="list-style-type: none"> • Term paper • Written presentation of the results from the practice classes on computer • Written examination 		
Total contact time	5 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Term paper • Practical work on computer • Group work and presentation • Written examination 		
Credits	6 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Lecture with practice class: Scientific theory	1 CP	30 hrs.
	Lecture with practice class: Social network analysis	1 CP	30 hrs.
	Lecture with practice class: Geoinformatics	2 CP	60 hrs.
	Lecture with practice class: Statistics	2 CP	60 hrs.

Content and qualification objectives	CM04: Research Methods Students have an overview of research methods and analysis techniques which can be used within the field of governance. They are able to appraise the benefits of using such methods in real-life cases of governance. Using concrete data (including computer-assisted data) students have developed their understanding and abilities in the application of different methods and analysis techniques.
Content	The module introduces selected issues within the field of governance relating to scientific theory, network analysis, geoinformatics, and statistics. Students also have the opportunity to apply relevant research methods and analysis techniques to selected topics. <ol style="list-style-type: none"> 1. Lectures relay further theoretical information and case-specific content relating to the research methods. 2. In practice classes, students have the opportunity to apply methods to scientific research questions.
Application of the module	Master's degree programme GovRR
Admission requirements	None
Teaching location	Santiago, Chile (Heidelberg Center for Latin America)
Course offered	Annually (in the first semester each year)
Recommended semester	First semester
Organisational points	This module is taught by multiple lecturers who ensure that the content is coordinated and logically structured. The languages of instruction are Spanish and/or English.

CM05: Student Research Project

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Student Research Project		
Module code	CM05		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	1. Lecture with practice class on scientific theory (2 WCH) 2. Field exercise (3 WCH)		
Type of module	Compulsory module		
Final module grade	<ul style="list-style-type: none"> • Term paper • Written presentation of the results from the practice classes • Poster presentation 		
Total contact time	3 - 5 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Term paper • Group work and presentation • Field exercise • Poster presentation 		
Credits	6 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Lecture with practice class and field exercise: Research seminar	6 CP	180 hrs. Including:
	Participation in the lecture and practice class (including preparation and review of the content)	2 CP	60 hrs.
	Research in scientific literature to inform development of term paper and preparation of presentations	2 CP	60 hrs.
	Field exercise	2 CP	60 hrs.

<p>Content and qualification objectives</p>	<p>CM05: Student Research Project Students have successfully planned and conducted their own research project. They are able to identify a research problem and situate this with reference to scientific literature and current research. They have also learnt how to generate a research question on the basis of this problem and illustrate its relevance to research. Thirdly, students are able to select a suitable research methodology which enables them to address the research question from a theoretical/conceptual and/or empirical standpoint. They are able to justify their choice of methodology with reference to the literature. A field exercise has enabled students to gain practical experience in using qualitative, experimental methods from social sciences research. They have learnt to design interviews around specific topics and to conduct these with experts in the field. They are able to document collected data and analyse the content. Expert interviews give students the opportunity to critically engage with their own research design and tailor this as part of a research cycle. Students are also able to accurately and convincingly present their research design in the form of a poster.</p>
<p>Content</p>	<p>The module reflects the individual phases generally undertaken in as part of a scientific research project and equips students with the skills they require to progress independently through a project, drawing on relevant perspectives on governance from the fields of natural science, economics, and the social sciences to address selected research questions. After students have developed research questions and selected an appropriate research design under the guidance of the course lecturer, they undertake independent data collection in the field. Students then work independently or in groups to evaluate the collected data and present this in a poster.</p>
<p>Application of the module</p>	<p>Master's degree programme GovRR</p>
<p>Admission requirements</p>	<p>None</p>
<p>Teaching location</p>	<p>Santiago, Chile (Heidelberg Center for Latin America) or in Heidelberg (Institute of Geography) as part of a semester abroad</p>
<p>Course offered</p>	<p>Annually (in the second semester each year)</p>
<p>Recommended semester</p>	<p>Second semester</p>
<p>Organisational points</p>	<p>The languages of instruction are Spanish and/or English.</p>

CM06: Master's Thesis

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Master's Thesis		
Module code	CM06		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	Completion of the Master's thesis		
Type of module	Compulsory module		
Final module grade	Master's Thesis		
Total contact time	2 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Completion of the Master's thesis • Participation in research colloquium 		
Credits	30 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Completion of the Master's thesis	28 CP	840 hrs.
	Participation and presentation in research colloquium	2 CP	60 hrs.
Content and qualification objectives	<p>CM06: Master's Thesis</p> <p>In their Master's thesis, students demonstrate that they are able to apply the specialist and methodological skills they have learnt throughout the degree programme. They work independently to develop a written thesis in which they address and investigate a self-defined research question. Students present and discuss their Master's thesis in a research colloquium.</p>		
Content	<p>The content of the Master's thesis and the presentation in the research colloquium reflect the thematic and methodological specialisations which the student has developed during the degree programme. The Master's thesis may draw on empirical data, or be based solely on existing scientific literature.</p>		

Application of the module	Master's degree programme GovRR
Admission requirements	Successful participation in the courses listed in the compulsory and compulsory elective categories, totalling 60 credits.
Teaching location	Santiago, Chile (or at the Institute for Geography at the University of Chile, or at the Institute for Geography at the Pontifical Catholic University of Chile, or at the Heidelberg Center for Latin America), or in Heidelberg (Institute of Geography) as part of a semester abroad.
Course offered	Annually
Recommended semester	Third semester
Organisational points	In consultation with the project supervisor, the Master's thesis may be written in Spanish, English, or German. Communication with the supervisor may also take place in any of these three languages.

OP01: Further Natural Sciences

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Further Natural Sciences		
Module code	OP01		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	<ol style="list-style-type: none"> 1. (Main/Reading) seminar on selected topics from the natural sciences (4 WCH) 2. Lecture with practice class on selected topics from the natural sciences (4 WCH) 3. Field exercise (1 - 8 days): Selected topics from research in the natural sciences, using examples <i>(only courses which form part of this module)</i> 		
Type of module	Compulsory elective module		
Final module grade	Flexible examination formats <ul style="list-style-type: none"> • Term paper on (main/reading) seminar • Oral presentation on (main/reading) seminar • Written examination • Reaction papers • Presentation on (main/reading) seminar or as part of field exercise • Presentation of results from practice class 		
Total contact time	4 - 12 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Term paper • Presentation • Group work 		
Credits	6 - 18 CP		
Duration of module	1-2 semesters		
Workload, requirements for the receipt of credits (* per individual course)	(Main/Reading) seminar: Selected topics from the natural sciences	6 CP*	180 hrs.*
	Lecture with practice class: Selected topics from the natural sciences	6 CP*	180 hrs.*

	Field exercise: Selected topics from research in the natural sciences, using examples (<i>only courses which form part of this module</i>)	6 CP*	180 hrs.*
Content and qualification objectives	OP01: Further Natural Sciences Students are able to work through scientific literature independently, to critically analyse the content, present it to a group, and engage in further discussion about it. Students develop their own opinions in regard scientific approaches and content and document and assess the strengths and weaknesses of specific theoretical and methodological approaches. Students are also able to apply scientific insights to specific local and regional structures and problematics.		
Content	The module draws on selected topics to further students' understanding of issues within the field of natural sciences research. In this way, the module consolidates and develops student's (new) knowledge of risk and/or resource governance. Courses in this module address topics such as seismic and climatic risks, ecosystems, biodiversity, climate and hydrology, the availability of water and energy sources etc, in different contexts, and from a scientific perspective.		
Application of the module	Master's degree programme GovRR		
Admission requirements	None		
Teaching location	Santiago, Chile (or at the Institute for Geography at the University of Chile, or at the Institute for Geography at the Pontifical Catholic University of Chile, or at the Heidelberg Center for Latin America), or in Heidelberg (Institute of Geography) as part of a semester abroad.		
Course offered	Every semester		
Recommended semester	First or second semester		
Organisational points	The languages of instruction are Spanish and/or English.		

OP02: Further Social Sciences

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Further Social Sciences		
Module code	OP02		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	<ol style="list-style-type: none"> 1. (Main/Reading) seminar on selected topics from the social sciences (4 WCH) 2. Lecture with practice class on selected topics from the social sciences (4 WCH) 3. Field exercise (2 - 8 days): Selected topics from research in the social sciences, using examples (4 WCH) <p><i>(only courses which form part of this module)</i></p>		
Type of module	Compulsory elective module		
Final module grade	Flexible examination formats <ul style="list-style-type: none"> • Term paper on (main/reading) seminar • Oral presentation on (main/reading) seminar • Written examination • Reaction papers • Presentation on (main/reading) seminar or as part of field exercise • Presentation of results from practice class 		
Total contact time	4 - 12 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Term paper • Presentation • Group work 		
Credits	6 - 18 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits (* per individual course)	(Main/Reading) seminar: Selected topics from the social sciences	6 CP*	180 hrs.*
	Lecture with practice class: Selected topics from the social sciences	6 CP*	180 hrs.*
	Field exercise: Selected topics from research in the social sciences, using examples <i>(only courses which form part of this module)</i>	6 CP*	180 hrs.*

Content and qualification objectives	OP02: Further Social Sciences Students are able to work through scientific literature independently, to critically analyse the content, present it to a group, and engage in further discussion about it. Students develop their own opinions in regard scientific approaches and content and document and assess the strengths and weaknesses of specific theoretical and methodological approaches. Students are also able to apply scientific insights to specific local and regional structures and problematics.
Content	The module draws on selected topics to further students' understanding of issues within the field of social science research. In this way, the module consolidates and develops student's (new) knowledge of risk and/or resource governance. Courses in this module address topics such as spatial and urban planning, economic development, and sustainability in the use of resources in varied contexts and from a social science perspective. Other topics and issues include political systems, legal systems, handling of economic crises, business management, insurance bodies, etc.
Application of the module	Master's degree programme GovRR
Admission requirements	None
Teaching location	Santiago, Chile (or at the Institute for Geography at the University of Chile, or at the Institute for Geography at the Pontifical Catholic University of Chile, or at the Heidelberg Center for Latin America), or in Heidelberg (Institute of Geography) as part of a semester abroad.
Course offered	Every semester
Recommended semester	First or second semester
Organisational points	The languages of instruction are Spanish and/or English.

OP03: Governance Case Study Analysis

Master's Degree Programme (MSc) Governance of Risk and Resources (GovRR)

Title of the course	Governance Case Study Analysis		
Module code	OP03		
Degree programme	Master's in GovRR		
Faculty	Chemistry and Earth Sciences		
Courses which make up the module	Seminar with practice class 1. (Main/Reading) seminar on selected case studies of governance in practice (2 WCH) 2. Practice class focussed on decision-making in cases of governance, using varied role play situations (2 WCH)		
Type of module	Compulsory elective module		
Final module grade	Flexible examination formats <ul style="list-style-type: none"> • Presentations • Group work and presentation of results from practice class • Term paper 		
Total contact time	4 WCH		
Instruction, learning, and examination formats	<ul style="list-style-type: none"> • Research in scientific literature • Presentation • Governance case studies • Group work and role play • Term paper 		
Credits	6 - 12 CP		
Duration of module	1 semester		
Workload, requirements for the receipt of credits	Seminar with practice class Governance Case Study Analysis	6 CP	180 hrs. Including:
	Participation in (main/reading) seminar to familiarise oneself with a case study of governance (including preparation and review of the content)	3 CP	90 hrs.
	Practice class: Practice class focussed on decision-making in cases of governance, using varied role play situations	3 CP	90 hrs.

Content and qualification objectives	<p>OP03: Governance Case Study Analysis</p> <p>Students are able to work independently to understand historical case studies and hypothetical scenarios of governance. They can approach these in a solution-orientated manner and can analyse and structure them according to the theories and models they have learnt. Students are able to develop an opinion in regard the strengths and weaknesses of governance processes and can put forth convincing recommendations for the restructure or renewal of governance practices. Through structured scenarios in which students have had to communicate and reach decisions (e.g. in role plays), they have developed their skills in presenting, weighing up, and defending their recommended solutions before a group. More generally, this has enhanced their social and communication skills.</p>
Content	<p>As part of the module, students must analyse a case study of governance consisting in complex and dispersed, interrelated problems. Students must develop convincing recommended solutions (as part of a role play), discuss, and defend these before a group. The module furthers students' understanding of specialist theoretical, methodological, and analytical content and its relevance in practice. Every case of governance must be considered in its specific context. Students must first determine the exact contextual circumstances by using scientific literature and comprehensive raw data. The exact relevance of the data for the analysis of the case study is not immediately obvious, but instead invites an open and broad reconstruction of the situation at hand. Throughout the module, the course tutor plays the role of facilitator. He or she allocates individual roles and tasks to students which are associated with varying levels of knowledge, certain expectations, perceptions, and principles. These dynamically influence the process of group communication and decision-making throughout the exercise. The specialist knowledge and diverse professional experiences which students bring with them to the course also give rise to rich debates throughout the module (e.g. about the degree to which knowledge can be interpreted). The module therefore simulates the typical communication challenges which might arise during collective processes involved in finding solutions within governance.</p>
Application of the module	Master's degree programme GovRR
Admission requirements	None
Teaching location	Santiago, Chile (or at the Institute for Geography at the University of Chile, or at the Institute for Geography at the Pontifical Catholic University of Chile, or at the Heidelberg Center for Latin America), or in Heidelberg (Institute of Geography) as part of a semester abroad.
Course offered	Every semester
Recommended semester	First or second semester

Organisational points	The languages of instruction are Spanish and/or English.
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