



Module Handbook

M.Sc. SPRING



Guiding Principles and Goals of the SPRING Programme

SPRING is a two year M.Sc. programme in Regional Development Planning and Management, which is jointly offered by

- the Department of Spatial Planning, TU Dortmund University, Germany,
- the Department of Planning and Land Economy, College of Architecture and Planning, Kwame Nkrumah University of Science and Technology in Kumasi, Ghana,
- the School of Urban and Regional Planning, University of the Philippines, Quezon City, The Philippines,
- the School of Urban and Regional Planning, Ardhi University, Dar es Salaam, Tanzania.
- the 'Facultad de Ciencias Económicas y Administrativas', Universidad Austral de Chile, Valdivia, Chile

The programme trains regional development planners and managers for the public sector (who will be placed either at central, regional or local government level), for private consulting, NGOs and international organisations. The course content is specially geared towards the needs of students from Africa, Asia and Latin America and students from industrialised countries who intend to work in developing and transition countries.

The course structure and content are oriented towards four overall objectives

1. improving the organisational and planning capacities of developing countries;
2. training professionals for regional development planning and management (both urban and rural);
3. training planners as process managers facilitating alliances between various stakeholders;
4. imparting an interdisciplinary approach.

A regional development planner and manager has to acquire a broad inter-sectoral knowledge and skills across three major regional development planning fields: Natural resource planning, infrastructure planning and socio-economic development planning.

He/she should have the capability to design regional development activities in a pragmatic, problem and action oriented manner. He/she should be able to structure the planning process in the sequence of the three major action phases of the planning cycle: analysis, planning and implementation. He/she should be able to reconcile participatory planning from below with the requirements of planning from above and the framework set by national policies.

Regional development planners need professional knowledge of many fields and they should be able to combine various personal characteristics such as logical thinking, flexibility, creativity, organisational and communicative skills.

Abbreviations

<i>E</i>	<i>Exercise</i>	<i>LE</i>	<i>Lecture with exercise</i>	<i>M</i>	<i>Mandatory</i>
<i>EL</i>	<i>Elective</i>	<i>LS</i>	<i>Lecture with seminar</i>	<i>ME</i>	<i>Mandatory elective</i>
<i>L</i>	<i>Lecture</i>	<i>SE</i>	<i>Seminar</i>	<i>P</i>	<i>Project/workshop</i>

A development planner should be able to

- collect, process, analyse, interpret and compile social and economic data;
- understand and critically reflect concepts and theories underlying spatial development and planning;
- project key social and economic indicators into the future;
- translate target group requirements into land use plans, projects and programmes;
- understand at least the basics of all major sectors of regional development;
- have a good command of planning, group facilitation and conflict resolution techniques;
- critically appraise processes of spatial development at all levels against the backdrop of globalisation, accelerated urbanisation and climate change;
- design and conduct planning-oriented empirical research;
- write clear reports, manuals and memos.

Abbreviations:

- a: KNUST Ghana
b: UP Philippines
c: Ardhi Tanzania
d: UACH Chile

Abbreviations

<i>E</i>	<i>Exercise</i>	<i>LE</i>	<i>Lecture with exercise</i>	<i>M</i>	<i>Mandatory</i>
<i>EL</i>	<i>Elective</i>	<i>LS</i>	<i>Lecture with seminar</i>	<i>ME</i>	<i>Mandatory elective</i>
<i>L</i>	<i>Lecture</i>	<i>SE</i>	<i>Seminar</i>	<i>P</i>	<i>Project/workshop</i>

Module 1: Planning Approaches and Key Skills for Planners

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)

Frequency: Every year (winter term)	Duration: 2 semesters	When taught: 1. - 2. semester	CP: 8	Time: 240 h
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1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Spatial Planning and Sustainable Development in Germany	L (M)	1	1
	2	Excursion to Berlin or shorter excursions	E (M)	1	1
	3	Human Dimension in Planning	E (M)	1	1
	4	Presentation and Group Facilitation Techniques	E (M)	1	1
	5	Academic Writing	E (M)	1	1
	6	Introduction into Research Paper Writing	E (M)	1	1
	7	Module exam		2	

2 **Language of tuition**
English

3 **Contents**
This module contains two courses providing a general overview on the planning system in Germany incl. either an excursion (3 days) to Berlin or several shorter excursions to other municipalities and introducing into essential soft skills relevant for practitioners and academic work as well as into cross-cutting issues of human dimensions in planning.

Spatial Planning and Sustainable Development in Germany

- Overview of the German planning system and supervised excursions to German planning institutions and case study sites.

Introduction into Research Paper Writing

- Introduction to research design and operationalization

Presentation and Group Facilitation Techniques

- Introduction to moderation of meetings, group facilitation of participatory planning workshops
- Different presentation techniques with exercises

Human dimensions in Planning

- Concepts of conflict management
- Gender and participation as cross-cutting issues in planning

Academic Writing

- Writing for different target groups and different genres of text (journal article, theses, newspaper articles etc.)
- Exercises in structuring texts and in writing style with peer review

Abbreviations

<i>E</i> Exercise	<i>LE</i> Lecture with exercise	<i>M</i> Mandatory
<i>EL</i> Elective	<i>LS</i> Lecture with seminar	<i>ME</i> Mandatory elective
<i>L</i> Lecture	<i>SE</i> Seminar	<i>P</i> Project/workshop

4	Competences The students acquire the methodological, analytical and communicative abilities to <ul style="list-style-type: none"> capture the differences between the planning system in Germany and the country of origin identify a research problem and structure a scientific paper identify, select and analyse relevant data and literature write a research paper according to scientific standards Facilitate meetings and planning events in a result-oriented manner Translate complex content into good presentations with suitable visualisation Adequately capture the gender and social dimensions of planning processes Write well-structured and convincing texts for different target audiences develop planning proposals grounded in scientific research 	
5	Examinations Module exam (graded) 4 course attainments (not graded)	
6	Type of examinations Module examination: written exam related to elements 1 and 2 Course attainments: active participation in elements 3 to 6	
7	Prerequisites None	
8	Module type Mandatory module for M.Sc. SPRING	
9	Module representative Schramm	Responsible department TU Dortmund University, Department of Spatial Planning (09)

Abbreviations

<i>E</i>	<i>Exercise</i>	<i>LE</i>	<i>Lecture with exercise</i>	<i>M</i>	<i>Mandatory</i>
<i>EL</i>	<i>Elective</i>	<i>LS</i>	<i>Lecture with seminar</i>	<i>ME</i>	<i>Mandatory elective</i>
<i>L</i>	<i>Lecture</i>	<i>SE</i>	<i>Seminar</i>	<i>P</i>	<i>Project/workshop</i>

Module 2: Workshop – Planning Practice

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)

Frequency: Every year (winter term)	Duration: 2 semesters	When taught: 1. - 2. semester	CP: 12	Time: 360 h
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1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Workshop	P (M)	10	8
		Planning Cycle: Analysis, Planning, Implementation, Application of Presentation and Group Facility Technique			
	2	Partial exam A		0,67	
	3	Partial exam B		0,67	
	4	Partial exam C		0,67	
2	Language of tuition English				
3	Contents In this module tools/techniques are applied which are introduced esp. in Module 1 and 4 following step by step the ideal planning cycle (analysis – planning – implementation): <ul style="list-style-type: none"> • Group-work related techniques (group facilitation, presentation and moderation) • Policy framework development • Analysis and planning techniques (stakeholder analysis, problem identification, potential analysis, scenario development, population projection, goal-setting, strategy development, logical framework); project implementation techniques (plan of operation, capacity assessment, monitoring and evaluation) • methods/tools/techniques are applied in simulated case study regions in developing countries based on group work 				
4	Competences The students acquire the methodological and communicative abilities to <ul style="list-style-type: none"> • participate in and lead goal-oriented, interdisciplinary and cooperative group work, • communicate and defend group results in oral presentations and technical reports • conduct a participatory and comprehensive analysis (including environmental, economic, social and institutional aspects) of a region in a developing country • develop a cross-sectoral development plan and project proposal for a region in a developing country • devise plan of operation, monitoring and evaluation procedures for the implementation of development programmes and projects • jointly prepare and present a planning document 				
5	Examinations 3 Partial exams (graded)				
6	Type of examinations Partial exam A: workshop report (analysis workshop) Partial exam B: workshop report (planning workshop) Partial exam C: workshop report (implementation workshop)				
7	Prerequisites none				

Abbreviations

<i>E</i> Exercise	<i>LE</i> Lecture with exercise	<i>M</i> Mandatory
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<i>L</i> Lecture	<i>SE</i> Seminar	<i>P</i> Project/workshop

8	Module type Mandatory module for M.Sc. SPRING	
9	Module representative Weber	Responsible department TU Dortmund University, Department of Spatial Planning (09)

Abbreviations

E Exercise
EL Elective
L Lecture

LE Lecture with exercise
LS Lecture with seminar
SE Seminar

M Mandatory
ME Mandatory elective
P Project/workshop

Module 3: Planning in Developing Countries and Physical Infrastructure

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)

Frequency: Every year (winter term)	Duration: 2 semesters	When taught: 1. - 2. semester	CP: 20	Time: 600 h
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1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Land Use Planning and Environmental Management	SE (ME)	4	2
	2	Climate Change and Risk Management	SE (ME)	4	2
	3	Transport and Infrastructure	SE (ME)	4	2
	4	Sustainable Land Management	SE (ME)	4	2
	5	Housing and Human Settlement Planning	SE (ME)	4	2
	6	Exam: Research Paper	(M)	4	

2	Language of tuition English				
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3	<p>Contents</p> <p>Students have to choose four out of five seminars.</p> <p>This module includes the technical, socio-economic and environmental aspects of physical planning from regional to local level in developing and emerging countries. The institutional framework is provided by land rights and land management systems. Special attention is given to measures coping with impacts of climate change on existing land use system. In particular the courses cover:</p> <ul style="list-style-type: none"> • Land policies, land use planning concepts and measures for land management and its administration • Ecological profiling, conservation of natural resources, environmental impact assessment, sustainability impact assessment • Agricultural policies and regional factors • Analysis and evaluation of size, functions, location and distribution of settlement types, their potentials and constraints for development, urbanisation in developing countries, the impacts and challenges, regional disparities and urban - rural dynamic and interaction • Analysis of housing needs and introduction to key housing policy instruments, with a focus on interventions addressing low-income residents • Basic parameters guiding the provision of social and technical infrastructure; infrastructure standards, privatisation in the provision of infrastructure • Role of transport for regional development, demand and supply analysis for different modes of transport; strategies and policies for transport provision • Climate change induced impacts and its ensuing challenges for planning with special attention to disaster resiliency and mitigation/adaptation strategies • An independent but supervised research paper of up to 30 pages focussing on planning and development issues. The research is essentially based on secondary data, which may, in exceptional cases, be supported by some original field data. The research paper can also be taken as preparatory basis for the M.Sc. thesis at the end of the 4th semester 				
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4	<p>Competences The students acquire the ability to</p> <ul style="list-style-type: none"> critically reflect concepts of land use and review them in the light of their own countries experiences assess locational factors that determine the performance of the agricultural sector and state of food security and ability to propose appropriate policy measures that help to overcome constraints and mobilise potentials assess environmental and natural resources issues and problems and identify appropriate interventions/management measures to ensure sustainability of natural resources assess and propose mechanisms for efficient land management appraise causes and effects of human and natural induced disasters and identify appropriate mitigation measures understand and analyse the complexity of physical planning in developing and emerging countries, actors and tools analyse existing physical structures, and identify corresponding problems and potentials design solutions and intervention strategies in the fields of human settlements, including housing and transport, from the regional level downscaling <p>Regarding the research paper students acquire the methodological, analytical and communicative abilities to</p> <ul style="list-style-type: none"> identify a research problem and structure a scientific paper identify, select and analyse relevant data and literature write a research paper according to scientific standards develop planning proposals grounded in scientific research 		
5	<p>Examinations Module exam (graded)</p>		
6	<p>Type of examinations Student research paper</p>		
7	<p>Prerequisites None</p>		
8	<p>Module type Mandatory module for M.Sc. SPRING</p>		
9	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Module representative Greiving</td> <td style="width: 50%;">Responsible department TU Dortmund University, Department of Spatial Planning (09)</td> </tr> </table>	Module representative Greiving	Responsible department TU Dortmund University, Department of Spatial Planning (09)
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Abbreviations

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Module 4: Planning Tools					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year (winter term)	Duration: 2 semesters	When taught: 1. - 2. semester	CP: 6	Time: 180 h	
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Programme Planning and Project Management	E (M)	2	2
	2	Partial Exam A		1	
	3	Spatial Data Analysis and Mapping	E (M)	2	2
4	Partial Exam B		1		
2	Language of tuition English				
3	Contents This module introduces and practices techniques that are essential for planning <ul style="list-style-type: none"> • Group-work related techniques (group facilitation, presentation and moderation, scenario development) • Analysis and planning techniques (stakeholder analysis, problem identification, goal-setting, strategy development); project implementation techniques (plan of operation, capacity assessment, m&e) • Methods of data generation, analysis and interpretation in the context of spatial planning (aerial photography, computer based mapping) 				
4	Competences The students acquire the methodological and communicative abilities to <ul style="list-style-type: none"> • participate in and lead goal-oriented, interdisciplinary and cooperative group work • communicate and defend group results in oral presentations and technical reports • conduct a participatory and comprehensive analysis (including environmental, economic, social and institutional aspects) of a region in a developing country • devise plan of operation, monitoring and evaluation procedures for the implementation of development programmes and projects • use appropriate programmes for mapping and aerial photography to generate, analyse and present data in the form of maps to support spatial planning processes 				
5	Examinations 2 partial exams (not graded)				
6	Type of examinations Partial Exam A: written assignment Partial Exam B: written assignment				
7	Prerequisites None				
8	Module type Mandatory module for M.Sc. SPRING				
9	Module representative Think		Responsible department TU Dortmund University, Department of Spatial Planning (09)		

Abbreviations

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<i>L</i> Lecture	<i>SE</i> Seminar	<i>P</i> Project/workshop

Module 5: Concepts and Theories for Planning

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year (winter term)	Duration: 1 semester	When taught: 1. semester	CP: 7	Time: 210 h	
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Planning Theories and Models	LS (M)	2	2
	2	Urban Governance and Urban Transformation	LS (M)	2	2
	3	Module exam		3	
2	Language of tuition English				
3	Contents This module contains two courses introducing theories and concepts of spatial planning from a broad perspective. In particular, they will also deal with bridging the divide between theory and practice. Course contents are: Planning Theories and Models: <ul style="list-style-type: none"> • Postcolonial planning theories on the travel and adaptation of circulating planning theories and models • Circulating planning models and planning theories (e.g. networked city, strategic planning, co-production) and their place-specific appropriations Governance and Decision Making: <ul style="list-style-type: none"> • Public and other forms of organisational and institutional structures for implementation and their linkages; tools for organisational analysis and change. • Paradigms of planning theories, theories of planning and decision-making processes. • Conflict management 				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • understand cross-cutting concepts of spatial planning and link them to thematic planning issues • identify and critically reflect the theoretical underpinnings of development policies • assess the analytical strengths and limitations of the covered theories • apply the covered theories to the planning context and institutions of their home countries • be able to organise and conduct a mediation process 				
5	Examinations Module exam (graded)				
6	Type of examinations Oral examination				
7	Prerequisites none				
8	Module type Mandatory module for M.Sc. SPRING				
9	Module representative Schramm			Responsible department TU Dortmund University, Department of Spatial Planning (09)	

Abbreviations

E Exercise	LE Lecture with exercise	M Mandatory
EL Elective	LS Lecture with seminar	ME Mandatory elective
L Lecture	SE Seminar	P Project/workshop

Abbreviations

E Exercise
EL Elective
L Lecture

LE Lecture with exercise
LS Lecture with seminar
SE Seminar

M Mandatory
ME Mandatory elective
P Project/workshop

Module 6: Socio-Economic Development Planning

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)

Frequency: Every year (summer term)	Duration: 1 semester	When taught: 2. semester	CP: 7	Time: 210 h
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1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Economic Instruments for Regional Development Planning	LS (M)	2	2
	2	Demography: Social Dimensions of Structural Change	LS (M)	2	2
	3	Module exam		3	

2 **Language of tuition**
English

3 **Contents**
This module covers essential socio-economic determinants of regional development. In particular the courses focus on:

- Estimation and assessment of private and public financial capacity of a district against calculated financial needs of development programmes and projects; budgeting procedures; tools for evaluation of development programmes and projects
- Basic economic terms and concepts on macro and micro level; methods of regional economic analysis; strategies and instruments for the implementation of economic development programmes and projects
- Key concepts of demographic transition (including an introductory unit “utilities”), population projections and basic parameters guiding the provision of social infrastructure; interrelation between economic development, social change and demographic growth

4 **Competences**
The students acquire the ability to

- assess economic determinants and estimate the financial capacity of a region
- assess and develop budget plans
- Participate in the formulation of agricultural policies addressing poverty
- project population using the cohort-component model
- calculate the need for infrastructure provision
- apply planning standards in an appropriate and flexible manner
- select and apply context-specific strategies and instruments for economic promotion and social development

5 **Examinations**
Module exam (graded)

6 **Type of examinations**
Oral examination

7 **Prerequisites**
none

8 **Module type**
Mandatory module for M.Sc. SPRING

9 Module representative Schramm	Responsible department TU Dortmund University, Department of Spatial Planning (09)
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Abbreviations

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KNUST Ghana - Module 7a: Planning and Research Methods					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year	Duration: 1 semester	When taught: 3. semester	CP: 4	Time: 120 h	
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Spatial Statistics	L/E (M)	2	3
	2	Planning Surveys and Research Methodology	L/E (M)	2	3
2	Language of tuition English				
3	Contents This module consists of three courses covering the following contents: (1) Statistical methods for planners, analysing spatial data (2) Operationalisation of research instruments, empirical research methods, participatory data gathering and analysis methods				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • Conduct empirical research (field work, data analysis, report writing) • Select and apply appropriate statistical methods and spatial analysis techniques for addressing problems and issues in urban and regional planning • Apply scientific methods in decision-making, policy-formulation, planning and management processes 				
5	Examinations Graded written exams plus graded assignment papers for both courses (see below).				
6	Type of examinations				
	Covering the entire module		Relating to individual courses Course 1: assignment papers and written exam Course 2: assignment papers and written exam		
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory for SPRING and 2nd year master degree in Kumasi.				
9	Module representative		Responsible department Kwame Nkrumah University of Science and Technology, Department of Planning		

Abbreviations

<i>E</i> Exercise	<i>LE</i> Lecture with exercise	<i>M</i> Mandatory
<i>EL</i> Elective	<i>LS</i> Lecture with seminar	<i>ME</i> Mandatory elective
<i>L</i> Lecture	<i>SE</i> Seminar	<i>P</i> Project/workshop

KNUST Ghana - Module 8a: Policy Planning and Implementation in Ghana					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 3. semester	CP: 2	Time: 60 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Governance of Development	L/E (EL)	2	3
	2	Political Economy of Development	L/E (EL)	2	3
	3	Sociology of Development	L/E (EL)	2	3
2	Language of tuition English				
3	Contents Students have to choose one out of three courses. This module deals with institutional and practical issues of designing and implementing development policies in Ghana: <ul style="list-style-type: none"> • Governance structures and institutional reforms associated with decentralisation, legislative instruments, institutional collaboration, governance • Development of lower-level planning structures, challenges of grassroots participation and empowerment, the role of planners in these processes • Course includes lectures by invited practitioners 				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • Understand, assess and monitor the evolving institutional structures, formal and informal processes, operating dynamics as well as practical constraints and problems of a decentralised system • Assess the interests and capacities of various institutions and stakeholders in Ghana's planning system • Understand a planner's options for coordinating and managing the development process within a decentralised framework • Compare the Ghanaian planning system and experiences with other countries 				
5	Examinations Graded assignment papers plus graded written exam for both courses (see below).				
6	Type of examinations				
	Covering the entire module written assignment papers and oral presentation		Relating to individual courses: Course 1: assignment papers and written exam Course 2: assignment papers and written exam		
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory for SPRING and 2nd year master degree in Kumasi.				
9	Module representative		Responsible department Kwame Nkrumah University of Science and Technology, Department of Planning		

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

KNUST Ghana - Module 9a: Development Planning Workshop					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 2 semester	When taught: 3.- 4. semester	CP: 14	Time: 420 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Development Planning Workshop (3 rd semester)	L/E (M)	6	6
2	Development Planning Workshop (4 th semester)	L/E (M)	8	6	
2	Language of tuition English				
3	Contents This module builds on the first year's workshops that dealt with a simulated case study region. In the second year development workshop the students engage with a real world case study area, typically a district. <ul style="list-style-type: none"> Over the course of two semesters the students spend several weeks in the district for field studies (interviews, data collection etc.). Working in groups and guided by the workshop supervisor the students go through the typical planning processes and development issues, combining methods and knowledge of all previous SPRING courses 				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> Generate and analyse empirical data for identifying problems and potentials Conduct consultative meetings with key stakeholders of the study area Develop a comprehensive development plan for the case study area Design strategies and derive feasible projects Disseminate and discuss the plan with key stakeholders Engage in goal-oriented, interdisciplinary group work. 				
5	Examinations The students produce a written report and corresponding charts and maps. In addition there are oral examinations (individual and as a group) for testing contents and methods employed in the workshop. All of these are graded.				
6	Type of examinations				
	Covering the entire module a) Written report, chart and maps b) Oral examination			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory for SPRING and 2nd year master degree in Kumasi.				
9	Module representative			Responsible department Kwame Nkrumah University of Science and Technology, Department of Planning	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

KNUST Ghana - Module 10a: MASTER THESIS					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 4. semester	CP: 12	Time: 360 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Master Thesis	Individual work (M)	6	
	2	Module Exam: Master Thesis defence		6	
2	Language of tuition English				
3	Contents The master thesis is an independent research work produced by each student individually, yet supervised by one lecturer. The thesis should deal with a real world problem which is of relevance to a particular area, e.g. the district in which the development workshop takes place.				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • Define and operationalise a researchable topic • Identify and design appropriate research tools • Search and analyse relevant literature • Collect and analyse empirical data • Derive relevant findings and recommendations • Write a scientific report 				
5	Examinations Written thesis assessed individually by several examiners, final mark determined by entire examination committee after oral defence; external examiner from one of the SPRING network partner universities present at thesis defence				
6	Type of examinations				
	Covering the entire module a) Master Thesis b) Oral Examination		Relating to individual courses		
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory for SPRING and 2nd year master degree in Kumasi.				
9	Module representative		Responsible department Kwame Nkrumah University of Science and Technology, Department of Planning		

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

UP Philippines - Module 7b: Planning and Research Methods					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 3. semester	CP: 13,5	Time: 405 h
1 Module structure					
	No.	Element / Course		Type	CP
	1	Land Use Planning		L/E (M)	4.5
	2	Research Methods in Planning		L/E (M)	4.5
	3	Planning Analysis and Techniques		L/E (M)	4.5
2 Language of tuition English					
3 Contents This module consists of two courses covering the following contents: <ul style="list-style-type: none"> Formulating the research design, quantitative and qualitative research methods for planners, analysis of spatial data Primary and secondary data collection methods, conduct of participatory research, and tools and techniques of data analysis relevant to planning 					
4 Competences The students acquire the ability to <ul style="list-style-type: none"> Conduct empirical research (field work, primary and secondary data analysis, report writing) Select and apply appropriate statistical methods and spatial analysis techniques for addressing problems and issues in urban and regional planning Apply scientific methods in decision-making, policy formulation, planning and management processes 					
5 Examinations Graded written exams for Planning Analysis and Techniques. Graded research proposal and group survey for Research Methods in Planning. Graded land use plan output for Land Use Planning.					
6 Type of examinations					
Covering the entire module				Relating to individual courses: Course 1: and use plan formulation Course 2: individual research proposal, group survey Course 3: written exam	
7 Prerequisites Successful completion of first year of SPRING programme.					
8 Module type Mandatory					
9 Module representative				Responsible department University of the Philippines, School of Urban and Regional Planning	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

UP Philippines - Module 8b: Policy Planning and Implementation in the Philippines					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 3. semester	CP: 13,5	Time: 405 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Planning Process	L/E (M)	4.5	3
	2	Special Problems in Urban Planning	L/E (M)	4.5	3
	3	Special Problems in Regional Planning	L/E (M)	4.5	3
2	Language of tuition English				
3	Contents This module deals with institutional and practical issues of designing and implementing development policies in the Philippines. It covers the system of development planning in the country, the Philippine planning process, the hierarchy of plans, and the formulation and implementation of the Comprehensive Development Plan and Comprehensive Land Use Plan, among others. The module covers administrative and political structures as well as reforms associated with decentralization, legislative instruments, institutional collaboration, governance issues; in addition, major planning approaches and strategies for promoting national and sub-national growth and development are discussed.				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • Understand, assess and monitor the evolving institutional structures and formal and informal planning processes • Assess the role, interests and capacities of various institutions and stakeholders in the Philippine planning system • Understand a planner's options for coordinating and managing the development process within a decentralized framework • Compare the Philippine planning system and experience with those of other countries 				
5	Examinations Graded written exams for Planning Process; written analytical papers for Special Problems in Urban Planning and in Special Problems in Regional Planning.				
6	Type of examinations				
	Covering the entire module		Relating to individual courses: Course 1: written exams Course 2: written analytical papers Course 3: written analytical papers		
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory				
9	Module representative			Responsible department University of the Philippines, School of Urban and Regional Planning	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

UP Philippines - Module 9b: Development Planning Workshop					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 2 semesters	When taught: 3.-4. semester	CP: 15	Time: 450 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Planning Workshop	L/E (M)	15	10
2	Language of tuition English				
3	Contents This module builds on the first year's workshops that dealt with a simulated case study region. In the second year, the students engage with a real world case study/laboratory area. Over the course of two semesters the students spend several weeks in the field study/area (conducting interviews, data collection, site observation, and consultation workshops). Collaborating in groups and guided by the workshop supervisor, the students go through the typical planning process and development issues, applying the methods and knowledge of all previous SPRING courses.				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • Generate and analyse empirical data for identifying planning problems and solutions • Conduct consultative meetings with key stakeholders of the study area • Develop/formulate/update a relevant plan for the case study area • Design strategies and derive feasible projects • Disseminate and discuss the plan with key stakeholders • Engage in a goal-oriented, interdisciplinary group work 				
5	Examinations The students produce a plan addressing the stated needs of the workshop site. In addition there are oral examinations (individual and as a group) as well as an individual exam for testing contents and methods employed in the workshop. All of these examinations are graded.				
6	Type of examinations				
	Covering the entire module: a) Development plan or sector plan b) Oral examinations c) Written exam			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory				
9	Module representative			Responsible department University of the Philippines, School of Urban and Regional Planning	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

UP Philippines - Module 10b: MASTER THESIS					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester		When taught: 4. semester	CP: 18
Time: 540 h					
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Master's Thesis	Individual work (M)	18	12 (with thesis supervisor)
2	Language of tuition English				
3	Contents The master thesis is an independent research work produced by each student, and supervised by a thesis committee. It is expected that the thesis deal with a current spatial planning problem which is of relevance to the study area and which can contribute to its development.				
4	Competences The students acquire the ability to <ul style="list-style-type: none"> • Define and operationalize a reasonable topic • Identify and design appropriate research tools • Search and analyse relevant literature • Collect and analyse empirical data • Derive relevant findings and recommendations • Write a thesis and defend it 				
5	Examinations Written thesis assessed individually by several examiners, final mark determined by the entire examination committee after oral defense; external examiner from one of the SPRING network partner universities present at thesis defense.				
6	Type of examinations				
	Covering the entire module			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory				
9	Module representative			Responsible department University of the Philippines, School of Urban and Regional Planning	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

ARU Tanzania - Module 7c: Planning and Research Methods					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency:	Duration:	When taught:	Credits:	Time:	
Every year	1 semester	3. semester	8	240 h	
1	Module structure				
	No.	Element / Course	Type	Credits	Contact hours
	1	Research Methods	L/E (M)	4	2.5
	2	Planning and Management of Information Systems (G/S)	L/E (M)	4	2
2	Language of tuition English				
3	Contents <ul style="list-style-type: none"> • Meaning and purpose of research and main steps in a research process including the Role of research in planning practice, and • Importance and use of GIS and the role that GIS plays in planning and management. 				
4	Competences <ul style="list-style-type: none"> • Basic and applied skills in research design, execution, report writing and in principles of dissemination of research findings • Current research issues for Urban and Regional planners in developing countries • Social Science and Natural science research approaches • Deductive and inductive approaches to research • The extent to which policy makers use knowledge generated from research activities in developing countries and what could be done about it • Nature of urban environmental information management • Types of management, strategic planning, management control, operational control • Characteristics of environmental Information • Quality attributes of environmental information, specification of user needs • Environmental mapping and monitoring • Application and examples of GIS and RS in urban planning and management 				
5	Examinations There will be graded written examinations for all two courses (see below).				
6	Type of examinations				
	Covering the entire module		Relating to individual courses: Course 1: written exam Course 2: written exam		
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory				
9	Module representative Dr. Kazaura			Responsible department Ardhi University, School of Spatial Planning and Social Sciences (SSPSS)	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

ARU Tanzania - Module 8c: Urban Planning and Management in Tanzania					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 3. semester	Credits: 10	Time: 300 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Urban Planning and Management Theories	L/E (M)	4	2
	2	Professional Practice	L/E (M)	2	1,5
	3	Urban Land Management and Development	L/E (EL)	4	2
	4	Urban Housing Development and Management	L/E (EL)	4	2
	5	Urban Infrastructure Planning and Management	L/E (EL)	4	2
	6	Gender and Urban Development and Management	L/E (EL)	4	2
2	Language of tuition English				
3	Contents <ul style="list-style-type: none"> • Foundations, conceptual debates and contemporary discourses surrounding urban development planning and management • Issues and challenges of urban development in the third world countries • Necessary practical skills for planning and managing urban development • Sector issues in urban planning and management in third world countries 				
4	Competences <ul style="list-style-type: none"> • Mastery of different approaches of urban development planning and management • Knowledge and skills on the practice of urban planning and management • Institutional and legal frameworks for urban and regional development planning and management • Public-private partnerships in municipal management and governance • Entrepreneurship • Managing and planning consultancy services • Professional ethics and codes of conduct in urban and regional development planning and management • Sustainable technical solutions to the problems of accessibility, flooding, solid waste management, water supply and poor sanitation, particularly in low-income (informal/unplanned) housing • Skills to develop efficient and effective policies and strategies to address the problems related to urban and peri-urban land development and management • Developing and strengthening skills in gender planning and gender mainstreaming 				
5	Examinations There will be graded written exams related to individual courses. Only course 1 and 2 are mandatory. Out of the remaining 4 electives one course has to be taken.				
6	Type of examinations				
	Covering the entire module			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

8	Module type Course 1 and 2: mandatory; Courses 3-5: select one out of four	
9	Module representative Prof. Aldo Lupala	Responsible department Ardhi University, School of Spatial Planning and Social Sciences (SSPSS)

Abbreviations

E Exercise
EL Elective
L Lecture

LE Lecture with exercise
LS Lecture with seminar
SE Seminar

M Mandatory
ME Mandatory elective
P Project/workshop

ARU Tanzania - Module 9c: Urban Planning and Management Workshop					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 2 semester	When taught: 3. semester	Credits: 8	Time: 240 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Urban Planning and Management Studio	P (M)	8	5
2	Language of tuition English				
3	Contents Preparation and implementation of an urban general planning scheme using strategic planning concepts				
4	Competences <ul style="list-style-type: none"> Contextual and institutional issues for planning intervention Interest analysis and stakeholders capacity assessment Sensitization of urban development stakeholders to participate in preparation and implementation of strategic urban development framework Participatory rapid appraisal of urban developmental and environmental issues, preparation of Urban Environmental Profile Citywide Consultative Meeting to identify critical issues Formulation of Issue-Specific Working Groups to address critical issues Preparation of Urban Strategic Development Plan Preparation of Implementation Strategies and Action Plans Project write up for resource mobilization Capacity building strategies for institutionalisation 				
5	Examinations The students produce a written report and corresponding charts and maps. In addition there are oral examinations (individual and as a group) as well as an individual exam for testing contents and methods employed in the workshop.				
6	Type of examinations				
	Covering the entire module: a) Written report, chart and maps b) Oral examinations (presentation)			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory for SPRING and 2nd year master degree in Dar es Salaam				
9	Module representative Prof. Aldo Lupala			Responsible department Ardhi University, School of Spatial Planning and Social Sciences (SSPSS)	

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

ARU Tanzania - Module 10c: MASTER THESIS					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 3. - 4. semester	Credits: 34	Time: 1020 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Dissertation I and Tests/Assignments for module 8C	L/E (M)	4	2
2	Dissertation II	Individual work (M)	30	0	
2	Language of tuition English				
3	Contents Students to get opportunity to demonstrate his or her ability to undertake an independent study and deepen the understanding of specific planning issues				
4	Competences <ul style="list-style-type: none"> • Determine appropriate planning topic for research • Acquire skills for design a research proposal and appropriate methodology for carrying out the research • Apply scientific research methods in carrying out independent research work • Masterly of writing and presentation skills 				
5	Examinations Written thesis assessed individually by several examiners, final mark determined by entire examination committee after oral defence; external examiner from one of the SPRING network partner universities present at thesis defence.				
6	Type of examinations				
	Covering the entire module			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory for SPRING and 2nd year master degree in Dar es Salaam				
9	Module representative Dr. Dawah Lulu Magembe-Mushi/Dr. Nelly Babere			Responsible department Ardhi University, School of Spatial Planning and Social Sciences (SSPSS)	

Abbreviations

<i>E</i>	<i>Exercise</i>	<i>LE</i>	<i>Lecture with exercise</i>	<i>M</i>	<i>Mandatory</i>
<i>EL</i>	<i>Elective</i>	<i>LS</i>	<i>Lecture with seminar</i>	<i>ME</i>	<i>Mandatory elective</i>
<i>L</i>	<i>Lecture</i>	<i>SE</i>	<i>Seminar</i>	<i>P</i>	<i>Project/workshop</i>

UACH Chile - Module 7d: Planning and Research Methods

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)

Frequency: Every year	Duration: 2 semesters	When taught: 3. - 4. semester	CP: 5	Time: 150 h
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1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Qualitative Methods in Research	L/E (M)	2	1,5
	2	Quantitative Methods in Research	L/E (M)	2	1,5
	3	Geospatial Analysis in Planning	L/E (M)	1	0,5
2	Language of tuition English				
3	<p>Contents This module consists of:</p> <ul style="list-style-type: none"> (1) Acquisition of basic and applied skills in research design, execution, report writing and dissemination and communication of its results. Subject content includes: Inductive and deductive reasoning in research; Research design and execution; Quantitative Vs Qualitative research techniques; Statistical versus knowledge generalization; Developing a research proposal; Ethics in research; Data sources - library work, sample surveys, questionnaire design, key informant and in-depth-interviews, focus group discussions; Report writing, formatting, and referencing skills; Essence of research; Research process and activities; Roles of research in urban and regional development planning and management; planning practice; Samples of research agenda in urban and regional development planning and management; Effective research approaches; Validity and reliability in research; Data collection principles; Presenting research results; Techniques for dissemination of research results. (2) Application of appropriate statistical methods and spatial analysis techniques for addressing problems and issues in urban and regional planning (3) Analysis of spatial data and GIS application. It will be very practical in orientation, especially oriented to the requirements of the Development Planning Workshop. 				
4	<p>Competences Students are able to:</p> <ul style="list-style-type: none"> (1) Conduct empirical research (field work, data analysis, report writing) Select and apply appropriate qualitative methods and content/ discourse analysis for addressing problems and issues in urban and regional planning Apply scientific methods in decision making, policy-formulation, planning and management processes. (2) Provide a logical framework for organizing, understanding and applying the concepts of analysis and interpretation of results. Apply basic skills in problem solving Use logical thinking and mathematical reasoning Apply statistical methods in specific situations (3) Improve their knowledge of Geographic Information Systems (GIS). They learn to use GIS software and Global Positioning System (GPS) tools for environmental planning and management. They are able to produce thematic maps and relevant overlays for their field work region. Manage and use critically statistic and cartographic information in different kinds of reference systems. Identify and analyse geographical phenomenon and solve problems with help of GIS technology. 				

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

5	Examinations Graded assignment papers and graded written exam according 6.	
6	Type of examinations	
	Covering the entire module	Relating to individual courses Course 1: Assignment paper Course 2: written exam Course 3: written exam
7	Prerequisites Successful completion of first year of SPRING programme.	
8	Module type Mandatory	
9	Module representative	Responsible department Universidad Austral de Chile, Facultad de Ciencias Económicas y Administrativas

Abbreviations

E Exercise
EL Elective
L Lecture

LE Lecture with exercise
LS Lecture with seminar
SE Seminar

M Mandatory
ME Mandatory elective
P Project/workshop

UACH Chile - Module 8d: Environmental Management Policy and Economic Development Planning and Implementation in Latin America

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year	Duration: 2 semesters	When taught: 3.-4. semester	CP: 7	Time: 210 h	
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Decentralised Development Planning in Chile	L/E (M)	2	2
	2	Regional Planning and Environmental Management	L/E (M)	2	2
	3	Theoretical Foundations of Development Planning	L/E (M)	1	1
	4	Regional and Local Dynamics of Development Intervention	L/E (M)	2	2
2	Language of tuition English				
3	Contents The module contains: <ul style="list-style-type: none"> (1) Institutional and practical issues of designing and implementing development policies in Chile and Latin America, as governance structures and institutional reforms associated with decentralization, legislative instruments and institutional collaboration (2) Focus on environmental planning and management privileging an economic perspective. Relationships between regional planning and environmental management are developed and relevant public policies are touched in this connection. The particular problems of common pool resources are handled and the economic pressures on natural resources and vulnerable protected areas are analysed in the context of sustainability criteria. Regional development in the context of globalization and the environmental problems related with global commons are introduced (3) Analysis of the limitations of conventional approaches to the problems of development and sustainability. Disciplinarity, interdisciplinarity and multidisciplinary are discussed and confronted with key problems. Finally the transdisciplinary approach is offered as the best alternative. The foundations of a Transdisciplinary Economy are proposed, through the principles of Human Scale Development and biophysical indicators for sustainability (4) A conceptual framework and methodological approaches to understand local dynamics influencing decision-making and participatory process of development planning at regional and local level. This course approaches development planning processes from an actor-oriented perspective which entails understanding the construction of the objects and strategies of intervention as embedded in specific socio-cultural contexts 				

Abbreviations

<i>E</i> Exercise	<i>LE</i> Lecture with exercise	<i>M</i> Mandatory
<i>EL</i> Elective	<i>LS</i> Lecture with seminar	<i>ME</i> Mandatory elective
<i>L</i> Lecture	<i>SE</i> Seminar	<i>P</i> Project/workshop

4	<p>Competences Students are able to:</p> <p>(1) Understand the importance of local capacities and institutional settings in decentralized development planning, as strategic factors in regional development. Learn how to apply different instruments of planning and tools to design regional planning and development processes and design decentralised development programmes based on endogenous potentials and regional identity.</p> <p>(2) Understand the theoretical economic framework for analysing the regional and urban effects of land use change and the available normative instruments to intervene in these processes. Learn to interpret the space under pressure and to analyse the changes in the land use patterns. Understand the interactions between natural resources, integrated environmental management and sustainable regional planning. Grasp the relevance of the global context for regional planning and development.</p> <p>(3) To learn the tools for a holistic vision and understand the development problems at the regional level, considering that the conventional approaches are limited and atomized.</p> <p>(4) Approach different theoretical perspectives to understand development processes at regional and local level. Understand the main conceptual issues for understanding planned intervention from actor-oriented approaches. Understand the construction of the objects and strategies of intervention as embedded in specific socio-cultural contexts. Understand the importance of qualitative perspectives and research strategies to deal with the study of planned intervention at the local level. Elaborate bottom-up interpretative frameworks that broaden the understanding of decentralization and include the intra-regional disparities and rural-urban dynamics.</p>			
5	<p>Examinations Graded assignment papers and graded written exam according 6.</p>			
6	<p>Type of examinations</p> <table border="1" data-bbox="225 1205 1439 1417"> <tr> <td data-bbox="225 1205 826 1417">Covering the entire module</td> <td data-bbox="826 1205 1439 1417"> Relating to individual courses Course 1: class participation and assignment paper Course 2: assignment paper Course 3: oral examination Course 4: individual and group reports </td> </tr> </table>		Covering the entire module	Relating to individual courses Course 1: class participation and assignment paper Course 2: assignment paper Course 3: oral examination Course 4: individual and group reports
Covering the entire module	Relating to individual courses Course 1: class participation and assignment paper Course 2: assignment paper Course 3: oral examination Course 4: individual and group reports			
7	<p>Prerequisites Successful completion of first year of SPRING programme.</p>			
8	<p>Module type Mandatory</p>			
9	<p>Module representative</p>	<p>Responsible department Universidad Austral de Chile, Facultad de Ciencias Económicas y Administrativas</p>		

Abbreviations

E	Exercise	LE	Lecture with exercise	M	Mandatory
EL	Elective	LS	Lecture with seminar	ME	Mandatory elective
L	Lecture	SE	Seminar	P	Project/workshop

UACH Chile - Module 9d: Development Planning Workshop

Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 2 semesters		When taught: 3. - 4. semester	
		CP: 12		Time: 360 h	
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Development Planning Workshop	L/E (M)	12	12
2	Language of tuition English				
3	Contents In the second year development workshop, the students engage with a real world case study area, typically a district/province. Over the course of two semesters the students spend several weeks in the district for field studies (interviews, data collection, etc.). Working in groups and guided by the workshop supervisor the students go through the typical planning processes and development issues, combining methods and knowledge of all previous SPRING courses. The workshop will proceed in broad approximation to the ideal planning cycle and to the conceptual and strategic discussion on development directions.				
4	Competences Students will be able to: (5) Analyse regional potentials and problems, existing institutional settings, social structure and participation, regional profile in regard to their planning capacities, process of applying public policies and their impact in regional and local level. (6) Apply planning methods in the physical and social economic settings and identify problems and potentials as well as interest groups. (7) Analyze land use conflicts, regulation problems, environmental problems and natural potential, local capacities and local network, factors of industrial location, institutional management quality, among others. <ul style="list-style-type: none"> • Learn to formulate answer and design actions • Apply methods in objective setting, and forecasting demographic and economic development • Apply planning tools, methods and strategies such as scenario writing according to identified problems and potentials, the design and evaluation of intervention strategies, formulation of objectives, programme formulation, priority setting, organisation of decisions making process, sustainable development criteria and indicators • Translate a broad development concept into concrete action and projects <ul style="list-style-type: none"> • Elaborate project profiles and a plan of operations 				
5	Examinations The students produce a written report and corresponding charts and maps. In addition there are oral examinations (individual and as a group) for testing contents and methods employed in the workshop. All of these are graded.				
6	Type of examinations				
	Covering the entire module: a) Written report, chart and maps b) Oral examinations			Relating to individual courses	
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory				

Abbreviations

<i>E</i> Exercise	<i>LE</i> Lecture with exercise	<i>M</i> Mandatory
<i>EL</i> Elective	<i>LS</i> Lecture with seminar	<i>ME</i> Mandatory elective
<i>L</i> Lecture	<i>SE</i> Seminar	<i>P</i> Project/workshop

9	Module representative	Responsible department Universidad Austral de Chile, Facultad de Ciencias Económicas y Administrativas
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Abbreviations

E Exercise
EL Elective
L Lecture

LE Lecture with exercise
LS Lecture with seminar
SE Seminar

M Mandatory
ME Mandatory elective
P Project/workshop

UACH Chile - Module 10d: MASTER THESIS					
Study programme: M.Sc. SPRING (Spatial Planning for Regions in Growing Economies)					
Frequency: Every year		Duration: 1 semester	When taught: 4. semester	CP: 36	Time: 1080 h
1	Module structure				
	No.	Element / Course	Type	CP	Contact hours
	1	Master Thesis	Individual work (M)	36	0
2	Language of tuition English				
3	Contents The research focus is to be determined by the candidate to master degree in relation with his or her area of interest related to the field workshop areas. The workshop will provide opportunities for students to analyse any areas of interest of regional planning and management.				
4	Competences Students will be able to: <ul style="list-style-type: none"> • Demonstrate that he or she is qualified to analyse and to prepare development programmes in a systematic and integrated manner • Demonstrate how to handle a large amount of data and show how to draw conclusions and how to place them in a broader context 				
5	Examinations Written thesis assessed individually by several examiners, final mark determined by entire examination committee after oral defence; external examiner from one of the SPRING network partner universities present at thesis defence.				
6	Type of examinations				
	Covering the entire module a) Submission of Final Draft of Thesis (Manuscript) b) Oral Examination (Thesis Defence)		Relating to individual courses		
7	Prerequisites Successful completion of first year of SPRING programme.				
8	Module type Mandatory				
9	Module representative			Responsible department Universidad Austral de Chile, Facultad de Ciencias Económicas y Administrativas	

Abbreviations

<i>E</i>	<i>Exercise</i>	<i>LE</i>	<i>Lecture with exercise</i>	<i>M</i>	<i>Mandatory</i>
<i>EL</i>	<i>Elective</i>	<i>LS</i>	<i>Lecture with seminar</i>	<i>ME</i>	<i>Mandatory elective</i>
<i>L</i>	<i>Lecture</i>	<i>SE</i>	<i>Seminar</i>	<i>P</i>	<i>Project/workshop</i>