

STUDY PLAN
M. MA. DEGREE IN GLOBAL CHALLENGES AND LEADERSHIP
(Thesis Track)

Plan Number			2013
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First: GENERAL REGULATIONS:

This plan conforms to the valid regulations of the programs of graduate studies.

1. Areas of specialty of admission in this program:
 - A. Holders of a Bachelor's degree in disciplines of relevance for the program, such as agronomy, engineering, behavioral sciences, economics, forestry, humanities, law, medicine, natural sciences, planning and architecture, social sciences.
 - B. Holders of a Bachelor's degree in any area of knowledge.

Second: SPECIFIC REGULATIONS:

1. The language of instruction of this program is English.
2. English language proficiency demonstrated in one of the following ways: IELTS score (Academic) of 5 at least, TOEFL score of 500 at least or equivalent test.
3. An Interview: 30% of the grade

Third: THE STUDY PLAN: Students have to take (36) credit hours as follows:

First: Obligatory courses: (18) credit hours

1. (9) obligatory credit hours from these subjects :					
Course No.	Course Title	Credit Hours	Theory	Prac.	Pre-requisite
3002720	Global Challenges and Opportunities	3	3	---	---
3002721	Global Governance, Management and Leadership	3	3	---	---
3002722	Science: Theories and Methods	3	3	---	---
2. (9) obligatory credit hours chosen from one of the (A, B, C) tracks					
Track (A) : Water Management (9 obligatory credit hours)					
3002725	Principles of Water Resources Management	1.5 ¹	1.5 ¹	---	---
3002726	Water Economics	1.5	1.5	---	---
3002727	Water Policy and Legislation	1.5	1.5	---	---
3002728	Hydrology and Water Quality	1.5	1.5	---	---
3002729	Research Methods	1.5	1.5	---	---
3002730	Research Project	1.5	1.5	---	---
Track (B) : Agriculture and Environment (9 obligatory credit hours)					
3002731	Sustainable Agriculture and the Environment	1.5	1.5	---	---
3002732	Management of Dry lands — Risks and Food Security	3 ²	3 ²	---	---
3002733	Agriculture and Development	3	3	---	---
3002734	Management of Genetic Resources: Law and Policy	1.5	1.5	---	---

1 (1.5) credit hours correspond to 5 ECTS in the European system.

2 (3) credit hours correspond to 10 ECTS in the European system.

Track (C) : Public Health (9 obligatory credit hours)					
3002735	Current Issues in Global Public Health	3	3	---	---
3002736	Health Policy	3	3	---	---
3002737	Research Methods in Public Health	3	3	---	---

Second: Elective courses: (9) credit hours out of the following:

Course No.	Course Title	Credit Hours	Theory	Prac.	Pre-requisite
3002723	Public Policy	3	3	---	---
3002724	Civil Society, Social Movements and the Development Process	3	3	---	---
3002738	International Political Economy	3	3	---	---
2205732	Negotiation and Intercultural Communication	3	3	---	---
2205734	Gender and Communication	3	3	---	---
2205735	Organizational and Business Communication	3	3	---	---
2205738	Health Communication	3	3	---	---

Third: Thesis (9) credit hours (3002799)

Course Descriptions

(3002720) Global Challenges and Opportunities (3 credit hours)

The course provides trans-disciplinary perspectives and analytical tools for communicating in qualified ways about problems of sustainability. It represents an important complement to technological and natural science approaches to sustainability by focusing on the cultural dimensions of consumption and resource use, cultural perceptions of environment and economy, and social science perspectives on the global distribution of environmental problems. A central aim is to help students develop skills in communicating across boundaries separating the discourses of different disciplines, cultural traditions, or the interests of business, politics, and social movements.

(3002721) Global Governance, Management and Leadership (3 credit hours)

This course provides an overview of central concepts and theories in value-based leadership research, with emphasis on critical perspectives and the wider organizational and societal context of leadership. The course gives an introduction to basic leadership research notions, such as the distinction between leadership and management, and the history of leadership models concerning leadership traits, behaviours, and situational contingencies. It treats the societal grounds of leadership which provide legitimacy to different combinations of leadership and management roles. It presents important critiques of established notions of leadership, and reviews alternative approaches that consider aspects such as gender and power, institutional contexts, and the social construction of leadership.

(3002722) Science: Theories and Methods (3 credit hours)

The course discusses concepts of epistemology and ontology, the use of theory, research design, research strategies (e.g. comparative, case), research methods (e.g. interviews, observation, text analysis), systems thinking, and analysis related to real case studies.

Moreover, the course covers spatial analysis (GIS), descriptive statistics and correlation analysis and scenario analysis. Finally, sustainability analysis and sustainability indicators as tools for decision making processes are discussed.

(3002723) Public Policy (3 credit hours)

This course provides an indepth analysis of public policies formation, agenda settings and the domestic and International dynamics in shaping public policies. In particular the course will discuss the various and competing theoretical and methodological approaches to the study of public policy in terms of formulation, Implementation and public policy evaluation.

(3002724) Civil Society, Social Movements and the Development Process (3 credit hours)

For the past two decades, the role civil society and social movements are mounting progressively in the region despite some shortcoming and limitations faced primarily by state. Regardless of changing nature and the degree of activity and ambitions of these institutions from one Arab state to another, the latest political upheaval in the region nonetheless, proves unequivocally the growing efficacy of such profound trends. Hence, the course will attempt to address the significance, implications, as well as those major challenges facing Middle Eastern civil societies and social movements particularly as far as current political regional developments are

concerned at both theoretical and empirical levels. As for the formal, students are expected to recognize the significant value of theories in interpreting various forms of developments and social movements in the region. The theoretical foundation is hoped to prepare and to advance student's analytical thinking and judgments before getting engaged into empirical / case studies dimension. Empirically, we will examine various case-studies reflecting above themes in the Middle East. In it, a number of inter-Arab current challenges and conflicts to be addressed such as those issues related to lack of human rights, democracy practices, social and economic impediments in the region.

(3002725) Principles of Water Resources Management (1.5 credit hours)

The course gives a general overview on water resources and their significance for development. Participants are introduced to main concepts of water resources management and get to know drivers and pressures on water systems. Stakeholders of water resources management and their individual perspectives are presented and discussed. Based on a case study participants get to know an example and will discuss water resources management implementation strategies.

(3002726) Water Economics (1.5 credit hours)

The course gives an introduction to water related economics. Based on water supply and water treatment systems participants get to know water production economics, investments and the concept of Public Private Partnerships. Economics of water allocation involves pricing schemes, water demand management and the transfer to irrigation. Additionally, economics of pollution are introduced. Through the elaboration of case studies participants get to know the use of economic instruments in water resources management.

(3002727) Water Policy and Legislation (1.5 credit hours)

The course gives an introduction to terms, objectives and principles of policies and legislations. Through the discussion of national and international water regulations and laws the perspectives of different stakeholder's are demonstrated. Participants get to know the institutional roles, performance and networks of water institutions and their financing and incentive structures. International water legislation like the Helsinki Rules and the United Nations Convention on the Law of Non-Navigational Uses of International Watercourses are showing the transboundary management of water resources. Through case studies major water and environmental disputes and cases are introduced and negotiation theories and dispute regulations discussed.

(3002728) Hydrology and Water Quality (1.5 credit hours)

The course gives a general overview on hydrology by introducing hydrometrics, hydro statistics, interception, evapotranspiration, infiltration, runoff, hydrographs and groundwater hydrology. Elements of water quality are presented to explain basic quality features and determinants of water bodies. Impairments through agricultural, domestic and industrial are presented and their influence on aquatic ecosystems discussed by explaining water quality processes as well as monitoring and assessment.

(3002729) Research Methods (1.5 credit hours)

The course gives an introduction into main tools to describe, understand and analyze spatial systems. Participants get to know Geographical Information Systems (GIS) software and components to build a database with maps and spatial data in order to analyze, design and implement information systems. Additionally, an introduction into statistical approaches and software (SPSS) is given.

(3002730) Research Project (1.5 credit hours)

This course is designed to help and support the student by finding a sufficient topic for a master thesis and to develop a structure and methodology in order to prepare the field research abroad. A master thesis checklist and planning document will be prepared accompanied by an intensive dialogue with the tutors and supervisors.

(3002731) Sustainable Agriculture and the Environment (1.5 credit hours)

The course gives a general introduction to the environmental effects of agriculture and continues with a more specific analysis of the management of soil, water and domestic animals as well as the control of pests in both temperate and tropical areas. Challenges and opportunities regarding the role of agriculture in environmental protection and human development are discussed. The intrinsic nature and consequences of increasing growth is investigated. The course focuses on creative thinking and a search for solutions.

(3002732) Management of Drylands — Risks and Food Security (3 credit hours)

The course offers integrated and holistic approaches for understanding the dry land environments, integrates different scientific disciplines to improve the understanding of the ecosystems by applying scientific knowledge to management and policy. Because of the course's substantial interdisciplinary and practical nature, both natural and social science students will be interested. It includes: 1) Dryland resource systems, 2) evolution of drylands, 3) environmental history, 4) ecology and drylands, 5) economics and drylands, 6) management models, 7) case studies in central Asia, Africa and South America, 8) developmental models and 9) class exercises.

(3002733) Agriculture and Development (3 credit hours)

The course is designed for an interdisciplinary master degree programme where students may have different backgrounds including agricultural, natural, social or economic sciences. Understanding the farm as a production system depending on interactions with and management of the natural resource base, and also characterized by internal interactions within the system. (1) Agro-ecology and cropping systems, applying ecological principles in the analysis of an agricultural system. Cropping systems in semi-arid, sub-humid and humid tropics. (2) Livestock systems, overview of livestock systems including both mixed farming and nomadic systems. Fodder resources including fodder quality and use. Crop-livestock interaction. (3) Genetic resources for food and agriculture, genetic erosion, conservation of genetic resources ex situ and in situ, utilization of genetic resources, international treaties and agreements on management of genetic resources, and intellectual property rights and policies. (4) Sustainable agriculture, integrated management of soil fertility, integrated pest management, integrated resource management for sustainable agriculture, and sustainable intensification.

(3002734) Management of Genetic Resources: Law and Policy (1.5 credit hours)

Origin, diffusion, exchange and ownership of genetic resources in agriculture through history. National and international structures and laws for managing and governing genetic resources. How the 'system' works: Access, exchange and sharing of benefits.

(3002735) Current Issues in Global Public Health (3 credit hours)

The course aims to provide an introduction to the subject of public health with an international focus. The main topics are the development, definition, models, and theories of public health, It aims to answer how health is measured and what determines health outcomes throughout the globe, as well as describing the main challenges in improving the health status internationally.

(3002736) Health Policy (3 credit hours)

The course provides knowledge of basic theories and concepts within the field of health policy as well as of how these are used in social and political contexts, particularly focusing on low- and middle-income countries.

The course also provides a deepened understanding and knowledge of the values on which health policies are based, particularly focusing on human rights and issues related to welfare policies.

The course provides a deeper understanding of how health policies are implemented and how the concept of evidence-based health policy is critically evaluated.

The course presents the main health policy figures on the global arena and critically examines the values that guide their work.

The theoretical elements of the course will be accompanied by practical exercises and group work that focuses on practical issues related to the formulation and implementation of health policies.

(3002737) Research Methods in Public Health

(3 credit hours)

The course provides a survey of the diversity of traditions and concepts in quantitative and qualitative research in the area of public health. The basic principles of epidemiological research design and methods are explained and the role of basic biostatistics are introduced, including practical exercises. Scientific articles where epidemiological methods have been applied are analyzed and discussed. The design of a qualitative study is also dealt with (problem formulation, selection principles etc.) Methods to generate qualitative data are presented. The steps and techniques of qualitative analysis are described with special emphasis on grounded theory and manifest content analysis. There will be some opportunity for supervised practice in carrying out interviews and focus group discussions and in the collation and coding of qualitative data.

(3002738) International Political Economy

(3 credit hours)

The purpose of this course is to provide a comprehensive and critical overview of the major concepts, theories, issues and debates on the international political economy. The central concern of the course is the study of the political aspects of the international economy and effects of economic process on international politics. Students will be introduced to the following major issues and themes including: role of state in production, distribution, and consumption; trade policy preferences and interest groups; domestic and international institutions and trade; politics of international debt; and domestic political effects of globalization, political structure and its effects on global financial crisis, political economy of reform.

(2205732) Negotiation and Intercultural Communication

(3 credit hours)

This course explains how the negotiation process works under both adverse and optimum conditions and explains the role of culture and qualities and functions of language that are most influential in an instance of negotiation. It commits itself to business negotiation, dispute resolution, and decision-making in multicultural environments. While it explains the basic negotiation concepts, such as power and interests, it shows how they acquire different meanings in different cultures. It discusses how culture affects negotiators' assumptions about when and how to negotiate, their interests and priorities, and their strategies. It equips the student with the tools to come to clear judgments and creative, non-aggressive solutions, and with strategies and specific tactics for managing spoken interaction, such as controlling topic, using listening skills to read a situation, turn-taking and turn-yielding, gaining cooperation, and handling cross-cultural encounters.

(2205734) Gender and Communication

(3 credit hours)

This course is a survey of the role of gender in communication processes. It identifies the differences in male and female communication patterns in public and private settings and the effect these differences have on the communication process. The course studies the relationship between gender, communication, and culture; theoretical approaches to gender development; gendered verbal communication, gendered nonverbal communication, gendered organizational communication, gendered media, and gendered power and violence. Topics of discussion include gender roles, interactive relationships between gender and communication in contemporary Arab societies, gender communication and the decisive role gender plays in personal and professional relationships, as well as its role in culture and in media.

(2205735) Organizational and Business Communication (3 credit hours)

The course focuses on the process of communication within organizations such as formal communication: (downward, upward, and horizontal), informal communication (gossiping), teamwork, small group communication, customer care communication with internal and external public of organizations, types of customers, organizational excellence culture, decision-making and problem-solving processes, conflict resolution, and negotiation skills.

(2205738) Health Communication (3 credit hours)

Discussions of the role of communication in public health are the focus of this course. While health communication draws on mass communication, social marketing, health education, anthropology, sociology, and linguistics, this course summarizes recent trends and discusses key issues, factors, forces, and challenges in health communication from a multicultural perspective. The topics covered include: Current health communication theories and issues; Cultural, gender, ethnic, religious, and geographical influences on conceptions of health and illness; Health communications approaches including interpersonal communications, public relations and public advocacy, community mobilization, professional medical communications, and constituency relations in health communication; Changing health needs and the imperative of a multicultural paradigm; Theoretical framework for communicating with multicultural populations; Case studies of health communication in high-risk multicultural populations.