

## Master's Programme

### URBAN AND REGIONAL PLANNING IN DEVELOPING COUNTRIES Academic year 2006-2007

#### 1. OBJECTIVES

The economic and social changes experienced by developing countries are leading to major restructuring in the distribution of the population, producing unprecedented urban growth. Since 1950 the population living in urban areas has increased from three hundred millions to almost two billions and it is expected to more than double by the year 2030. Today, seventeen of the twenty megacities of the world can be found in developing countries.

The increasing concentration of the population raises new problems as well as opportunities. On one hand cities increasingly contribute to the growth of the national economy, providing for a disproportionate share of jobs, income opportunities and access to services. On the other hand, they also affect the social organization, levels of income and growth perspectives in the rural areas. Traditional management and planning tools have proved inadequate to cope with the current conditions of urban areas, and to support the necessary transformations in the rural regions.

Urban and regional issues are complex and differ between regions, countries and even between cities in the same country. This requires theoretical approaches, analysis and working tools linked to the specific features of each reality. Planning methods and practices can be efficient only if designed starting from the specific social structures, institutional organizations and economic conditions of the context and adapted to them.

Sustainable urban, as well as rural, development increasingly requires replacing traditional planning tools with systems of governance and participatory management. In this view, the need is for specific professional figures with the knowledge and skills to cope with urban and regional issues, from various perspectives, including those of the international aid agencies.

#### 2. COURSE STRUCTURE

The Programme is divided into three modules. At the end of the course students are required to submit a *Project Document*.

*Module 1* provides the theoretical and methodological background on different development issues.

*Module 2* offers courses providing operational capacity.

*Module 3* consists of an individual or collective experience in the field.

To receive the Master Degree, participants have to discuss the *Project Report*. The discussion can take place via videoconference.

Course are held in Italian. They include lectures, seminars and tutored individual studies.

The Master's Programme offers two **Specialist Options**:

#### **A - Urban Projects**

*Urban development and reconstruction projects design and implementation*

#### **B - Regional Planning and Food Security**

*Food security projects design and implementation*

### **SPECIALIST OPTION "URBAN PROJECTS"**

The Specialist Option "Urban Projects" provides the theoretical background and practical skills to:

- identify priorities, stakeholders and strategies for action
- define techniques and operational tools
- formulate and assess development and reconstruction projects.

### **MODULE 1 - THEORIES AND METHODS**

#### ***Development Economics***

Augusto Cusinato

Development and Non-development. Development theories. Institutional development economics and the economics of local development. Elements of national accounting. Measures of development.

*Key Words: Development, Underdevelopment, Institutions, Local Development*

#### ***Development, Sustainability, Governance***

Virginio Bettini

The issue of sustainable development. The many dimensions of the environmental issue Agenda 21. Global problems, local solutions. Governance and the environment.

*Key Words: environment, sustainability, governance*

#### ***Disaster Prevention and post-Disaster Strategies***

Teacher to be appointed

Risk management and vulnerability in urban areas. Risk assessment and reduction approaches. Sustainable disaster management. Post-disaster strategies.

*Key Words: risk, vulnerability, reconstruction, sustainability*

#### ***Social Database Design and Management***

Silvio Griguolo

Statistical and information techniques for the design and management of urban and regional databases. Techniques for the analysis of large databases (Census, surveys, mixed). Coping with missing values.

*Key Words: Databases, Analysis Techniques, Information Retrieval*

#### ***Sociology of Development***

Adriano Varotti

Traditional societies and social change. The sociological aspects of underdevelopment. Modernization, dependency, new political economy, globalization.

*Key Words: Tradition, Modernization, Dependency, New Political Economy*

### **Urbanization and Urban Settlements Management**

Marcello Balbo

Urbanization trends. The legal and the illegal city. Urban productivity. The urbanization of poverty. The role of local governments. Urban management, action planning, governance.

*Key Words: Urban growth, Urban poverty, Local Government, Governance*

#### **Seminar I: The Lexicon**

Current issues and terminology in aid development.

*Key Words: Sustainable Development, Poverty, Vulnerability, Governance, Gender*

#### **Seminar II: Development Aid**

The role of multilateral institutions, governmental agencies and NGOs in development aid.

*Key Words: International Aid, Bilateral Cooperation, Ngo's*

## **MODULE 2 -TECHNIQUES AND TOOLS**

### **Cultural Heritage**

Giorgio Gianighian

Opportunities and constraints of heritage preservation in developing countries. Conservation methods and tools. Multilateral agencies and urban conservation. Applying to the World Heritage Fund. The role of local governments. Recent experiences and lessons learnt.

*Key Words: Cultural Heritage, Urban Conservation, Restoration, Rehabilitation, International Agencies*

### **Environmental Planning**

Giovanni Campeol

Environmental impact guidelines and tools for sustainable urban and regional growth. Energy flows and carrying capacity. Measures of sustainable development. The environmental impact of urban planning. Large scale projects vs. small scale action.

*Key Words: Sustainability, Carrying Capacity, Environmental Impact*

### **Geographic Information Systems)**

Aurelio Muzzarelli

Methods of urban and regional representation and analysis using Geographic Information Systems (Gis). Gis representation and management tools. Opportunities and limits of Gis applications in developing countries. Case studies.

*Key Words: Gis, Appropriate Information Technologies, Regional Analysis, Digital Representation*

### **Post-Disaster Reconstruction Methods and Techniques**

Gianni Rufini

Disaster response preparedness and contingency planning. Needs assessment techniques. Emergency shelter: options and standards, accessibility, safety, environmental conditions. Identifying and targeting the beneficiaries.

*Key Words: Disaster Preparedness, Contingency Planning, Emergency Shelter*

### ***Project Design and Implementation***

Marcello Balbo

Programmes and projects. Terms of Reference. Target population, affordability and cost recovery. The Project Cycle. The Logical Framework. Project identification and formulation. Project implementation and management of the post project phase.

*Key Words: Terms of Reference, Project Cycle, Logical Framework, Project Document*

### ***Project Monitoring and Evaluation***

Domenico Patassini

Development programs and plan evaluation: a) conditions, levels, types and dimensions; b) main current approaches; c) evaluation methods; d) techniques and tools; e) managerial, democratic and pluralistic evaluation.

*Key Words: Analytical Techniques, Projects and Programs Design, Monitoring and Evaluation*

### ***Social research methods and techniques***

Giovanni Allegretti

Social survey methods and techniques. Understanding local societal systems and cultural values. Goals definition. Efficiency and effectiveness of social analysis in a context of limited resources.

*Key Words :Local Societies, Survey Goals, Rapid Appraisal*

### ***Techniques of Exploratory Analysis***

Silvio Griguolo

Multidimensional exploratory analysis based on quantitative or categorized variables. Obtaining and presenting basic information from large databases. Classification methods. Surveying and assessing population conditions (housing, vulnerability, poverty). Applications.

*Key Words: multivariate analysis, classification, information organization*

### ***Urban Economics***

Augusto Cusinato

The institutional, economic and social characteristics of the city in developing countries. The city material and institutional basis. Urban production and distribution. The informal economy. Urban fragmentation.

*Key Words: Urban Economy, Informal Sector, City, Institutions*

### ***Urban Planning***

Enrico Fontanari

Planning and design tools in urban development. Strategic planning. Land use planning. Development planning. Investment planning. Integrating the formal and the informal city. Case studies and lessons learnt.

*Key Words: Strategic Planning, Urban Standards, Open Space, Informal Settlements*

***Urban projects formulation under conditions of uncertainty***

Roberto Ottolenghi

International organizations methods and formats for formulating urban projects. Form "urban project" to governance. How to deal with uncertainty. Case study.

*Key Words: project formulation, uncertainty, governance*

***Water & Sanitation***

Giorgio Cancelliere

Water needs and demand. Water supply and distribution systems. Economic, social and environmental sustainability. Water resources management: rates and public/private partnership. Sanitation needs (KAP: knowledge, attitude, practice). Case histories. Monitoring. Case study.

*Key Words: project document, project cycle, monitoring indicators, needs analysis, sustainability*

**MODULE 3 - FIELDWORK**

The third module consists of a 8 week-minimum individual or collective operational fieldwork, long. It is carried in co-operation with an institution concerned with urban or regional planning (Municipalities, Public Bodies, International Agencies, Universities, Ngos, etc.)

## **B SPECIALIST OPTION REGIONAL PLANNING AND FOOD SECURITY**

The Specialist Option "Regional Planning and Food Security" provides the theoretical background and practical skills to design, manage and assess projects for improving food quality and quantities in rural areas, by:

- providing the foundations of sustainable development theories and practices
- analyzing poverty reduction policies current approaches and design tools
- providing methods and techniques for improving food security

### **MODULE 1 - THEORIES AND METHODS**

#### ***Development Economics***

Augusto Cusinato

Development and Non-development. Development theories. Institutional development economics and the economics of local development. Elements of national accounting. Measures of development.

*Key Words: Development, Underdevelopment, Institutions, Local Development*

#### ***Rural Areas and Agriculture Production***

Paolo Santacroce

Rural areas, agriculture production and available resources in developing countries. Coping with population growth. Food availability and "access to food". Strategies for agricultural sustainable development.

*Key Words: Agro-ecosystems, Climate and Environment, Access to Food, Food Vulnerability, Food Security*

#### ***Theories and Methods for Sustainable Development***

René Gommès

Review of current sustainable development approaches. The different causes for non-sustainability: environmental, social, economic. The agro-environmental hotspot and its multiple factors. Case studies on natural resources scarcity and management.

*Key Words: Sustainable Development, Natural Resources, Management*

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*Key Words: International Aid, Bilateral Cooperation, Ngo's*

### **Multilateral Organizations and Food Security: from emergency to development. Introduction to Module 2**

Paolo Santacroce

Medium and long term effects of food emergency interventions. Moving from emergency to development strategies.

*Key Words: Food Emergency. Development Strategies.*

## **MODULE 2 - TECHNIQUES AND TOOLS**

### **A) POVERTY ALLEVIATION POLICIES**

#### **Poverty alleviation policies**

Augusto Cusinato

The many aspects of poverty. Measuring poverty. Poverty reduction policies.

*Key Words: Poverty, Measures, Reduction*

#### **Project Monitoring and Evaluation**

Domenico Patassini

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*Key Words: multivariate analysis, classification, information organization*

#### **Workshop: Poverty thresholds and vulnerable groups analysis through multivariate analysis**

Paolo Santacroce

Applications of multivariate analysis techniques to "Income and Expenditure" surveys.

#### **Seminar 3: Vulnerable groups analysis**

Case studies from multilateral projects

## **B) REGIONAL PLANNING AND FOOD SECURITY**

### ***Elements of Geomorphology and Pedology***

Leonardo Filesi

Notions of soil science. Pedogenesis elements and processes with particular reference to crops fertility factors.

*Key Words: Land Capability, Land Suitability, Crops*

### ***Food Security Geophysical Factors***

Paolo Santacroce

Crops and man. Introduction to climatology and agro-meteorology. Agro-ecosystem management.

*Key Words: Domestication, Biodiversity, Vegetation Cycles, Farming Systems*

### ***Geography of Nutrition***

Anna Goglio

Introduction to nutrition. Malnutrition: under- and over-nutrition. Anthropometric indicators. Hygiene and health components of under-nutrition. Diet compositions and their changes.

*Key Words: Nutritional Needs, LARN, Under-Nutrition, Anthropometric Indicators, (BMI) Body Mass Index*

### ***Techniques and Tools for the Use of Satellite Images***

Silvio Griguolo and Paolo Santacroce

Multivariate analysis with limited information. Eco-climatic classifications and crop monitoring through satellite images

*Key Words: Satellite data analysis, Vegetation Index (NDVI), Classifications, Monitoring.*

### ***Techniques of Regional Analysis***

Igor Jogan

Defining settlements patterns through multi-chromatic and multi-spectrum satellite images. Topographic variables. Static and dynamic analysis. Population estimate techniques. Needs and service accessibility assessment.

*Parole chiave: GIS, segmentazione e classificazione immagini, DTM, analisi spaziale*

***Geographic Information Systems)***

Aurelio Muzzarelli

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*Key Words: project document, project cycle, monitoring indicators, needs analysis, sustainability*

**MODULE 3 - FIELDWORK**

The four-week collective fieldwork will be carried out in co-operation with a local institution

An Introductory Workshop will define the fieldwork objectives, methodology and expected results.

### 3. APPLICATION

The specialist option **Urban Projects** will take a minimum of 8 and a maximum of 15 students.

The specialist option **Regional Planning and Food Security** will take a minimum of 5 and a maximum of 10 students.

Applicants from foreign universities must hold a degree with a minimum of four years' study.

Applicants must be fluent in Italian.

Applications must refer to one **Specialist Option**. They should be sent to:

Magnifico Rettore

Università Iuav di Venezia, Santa Croce 191, 30135 Venezia

ITALY

Applications should include:

- Curriculum Vitae
- Degree Certificate with course grades and dissertation title
- Any other relevant information (qualification degree, special courses, publications, portfolio, letters of reference, etc.).

Applications from foreign citizens residing outside the European Community must be submitted through the Italian diplomatic representation of the relevant country. Applicants must hold a student visa.

Applications must arrive to Università IUAV di Venezia before 1.00 p.m., **Friday 15 September 2006**.

The selection results will be published on the Master's website: [www.iuav.it/dp/formazione/master/](http://www.iuav.it/dp/formazione/master/) on Friday 22 September. Successful candidates will need to enroll by **Wednesday, 3 October 2006**.

Should places become available the next candidates on the list will have the chance to enroll, by 13 October 2006.

Tuition fee for the academic year 2006/2007 is € 3,500. Accommodation and living expenses have to be paid for by applicants.

A limited number of study grants may be offered by Università IUAV di Venezia to partially cover the fieldwork travel expenses.

*Università IUAV di Venezia does not provide scholarships*

#### 4. TEACHING STAFF

Marcello Balbo, Programme Director

G. Allegretti, V. Bettini, A. Cusinato, G. Campeol, G. Cancelliere, L. Filesi, E. Fontanari, G. Gianighian, A. Goglio, R. Gommès, S. Griguolo, I. Jogan, A. Muzzarelli, R. Ottolenghi, D. Patassini, D. Pini, G. Rufini, P. Santacroce, A. Varotti.

#### 5. DATES TO REMEMBER

##### Application

Application deadline	15 September 2006
Selection results	22 September 2006
Enrolment deadline	3 October 2006

##### Courses

Module 1 (11 weeks)	30 October 2006 – 24 January 2007	
Module 2 (11 weeks)	29 January – 16 May 2007	
Module 3 (fieldwork)	from June 2007	
Project Document Discussion	1 <sup>st</sup> session	20 December 2007
	2 <sup>nd</sup> session	13 March 2008

*for further information contact: [dp-formazione@iuav.it](mailto:dp-formazione@iuav.it)*