DEPARTMENT OF ARCHITECTURE AND URBAN STUDIES

POST GRADUATE PROGRAMME

POLITECNICO

MILANO 1863

CCOPERA(C)TION KNOWLEDGE AND SKILLS FOR SUSTAINABLE CITIES IN THE GLOBAL SOUTH



2016 | 2017 4th EDITION

IN COLLABORATION WITH



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UNESCO CHAIR IN ARCHITECTURAL PRESERVATION AND PLANNING IN HERITAGE CITIES





UNESCO CHAIR IN URBAN AND REGIONAL PLANNING FOR SUSTAINABLE LOCAL DEVELOPMENT

Ingegneria per lo Sviluppo ISF Engine ers Without Borders

COOPERA(C)TION | KNOWLEDGE AND SKILLS FOR SUSTAINABLE CITIES IN THE GLOBAL SOUTH

IV EDITION 2016-17

SCIENTIFIC DIRECTOR

Agostino Petrillo

CO-DIRECTOR - EDUCATIONAL COORDINATION Paola Bellaviti

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PROJECT DESCRIPTION

The post-graduate programme "Cooper(a)ction: knowledge and skills for sustainable cities in the Global South" aims to spread a new culture of international cooperation among students, scholars and professionals of spatial planning, architecture, urban design and land management. The programme aims to raise awareness about the need of a global urban knowledge and to nurture a tendency to find common solutions to deal with the challenges posed by the major environmental, social and cultural changes brought about by globalization in cities and territories.

In the deeply rearticulated scenario of changing relations between the Global North and the Global South, the old paradigm of international cooperation inteded as aid by the North to the South of the world has declined, Cooperation is today meant as exchange and sharing of knowledge and practices, in order to proceed towards a more inclusive and sustainable model of development drawn on jointly addressed issues concerning urbanization and the built environment. The worldwide, massive and rapid urban growth and the related growing social demand for quality and equity assigns specifically to architecture, urban planning and territorial governance the responsability of bringing out this new paradigm of international cooperation, for the sharing of "knowledge and skills that make cities and urban settlements inclusive, secure, resilient and sustainable", as indicated in one of the key goals of the Agenda for sustainable Development - 2030.

The post-graduate programme "Cooper(a)ction: knowledge and skills for sustainable cities in the Global South" makes this goal its own by focusing on urban and territorial transformations occurring in developing and emerging countries, as well as on the diverse issues that they raise. In these contexts, urbanization usually takes the form of the so called "informal city", namely the "spontaneous" and illegal urban agglomerations where housing insecurity, environmental fragility and socio-economic marginalization are interwoven. The 'informal city' is set on the edge of the socio-spatially consolidated city and is often excluded from the scope of urban policies. Nevertheless, it turns out to be the dominant urban model in a large part of the world, so representing the real challenge of urban management in the next millennium. This opens up a new field of investigation and intervention that requires appropriate approaches and methodologies from planning, architecture, urban design and governance, no longer 'imported' from Western urban contexts, with often counterproductive results. Rather, it is necessary to develop new approaches that combine research, training and innovation for the development of specific skills and appropriate knowledge to interpret and tackle the challenges of contemporary urban growth, combat deprivation, marginalization, exclusion and conflict and promote the wellbeing and inclusion in the built environment.

The programme implements such a philosophy through a multi-disciplinary project drawn on the current lines of study, field researches and experimental projects on the Global South produced internationally. The program covers a wide range of topics, including: new forms of socio-spatial inequality; spatial conflicts; informal urbanization; informal economies; strategies for slum upgrading; inclusive urban management; building techniques for informal contexts; projects for the protection and enhancement of cultural heritage in the territories in crisis; technologies of access to primary resources; risk assessment, mitigation and management; new technologies for development and social innovation; capacity building; empowerment and local governance. The education and training proposal is complemented and reinforced by seminars of

The education and training proposal is complemented and reinforced by seminars of international experts, talks of key-note speakers and geographical and thematic focusses, such as a specific module on African urbanism.

EDUCATIONAL OBJECTIVES

The main goal of the program is to train a new generation of professionals who are profoundly aware of the challenges concerning cities and territories in the globalized world and able to approach them through a holistic view and an adequate expertise, drawn on integrated knowledge, skills and techniques.

Thence, the program offers to not only students, but also junior researchers and young professionals the opportunity to enrich their education and training with a knowledge of the key issues, the international programs, approaches and tools currently emerging in the Global South, with th aim of developing partnerships between Universities, Institutions and Ngos.

Through a multidisciplinary approach to urban design, urban planning and urban management, the program provides a training on locally-based and integrated solutions for contexts marked by social, economic, territorial and environmental vulnerability.

The emerging urban phenomena are regarded and treated by multiple perspectives (that are socio-spatial, environmental, economic and governmental), put in relation to the most up-to-date intervention strategies in various fields (i.e. housing, infrastructure and services and urban governance) and approached through engaged research and collaborative working.

Particular attention is paid to the creation of collaborative methods between students, researchers and professionals coming from diverse backgrounds, as well as between them, the institutions and the urban communities affected by the programs and projects of intervention.

Given the programme's orientation to action research, large space is given to specific insights on the latest research projects for international cooperation carried on by the most diverse range of actors (including universities, research centers, public institutions, non-governmental organizations), both individually and in joint venture.

NEW JOB OPPORTUNITIES

The programme targets undergraduate and post-graduate students, young researchers and professionals with different disciplinary backgrounds interested in acquiring the skills for international work on urban issues, as well as in promoting projects and scientific initiatives for cooperation in/with local governments, universities, public institutions, companies, NGOs.

The programme provides a response to diverse training and educational needs.

It is aimed at post-graduate and young professionals coming from emerging and developing countries, who are interested into an advanced education in urban and regional management that is strongly sustainability-oriented. The need for experts on integrated approaches to sustainable management and urban and regional development is growing everywhere in the world, both in the public and in the private sector. The course gives concrete support to the training of this profile, by illustrating the most promising approaches and findings nationally and internationally produced in the field of sustainable development.

In addition, the programme accomodates the needs of students willing to develop specific research expertise on urban issues in the Global South, by putting them in touch with a network – consolidated over time - of outstanding researchers and practitioners active in those areas/fields

Finally, the course does not only prepare to become the traditional development worker, but provides also a complete training to manage the complex range of skills requires to any practitioner working on urban development and policies for sustainability, in so contributing to the increasing demand of 'knowledge for development', required to Universities, Research Centre and Institutes ("Partnership for knowledge").

In order to promote all these occupational directions, the course will provide ample opportunities for getting in touch with concrete research and design experiences at the international level, as well as to reconstruct the framework of the actors (organizations and international structures/national) and instruments (programs, strategies, reports, announcements) supporting research and international cooperation.

EDUCATIONAL METHOD

The program will be conducted through lectures and applied workshops given by a large, multidisciplinary and international group of professors, researchers and experts on cooperation, in partnership with international organizations, institutions and associations.

In particular, the training activities are divided into:

- LECTURES: critically oriented lectures on the urban emerging issues and main lines of research and intervention in the Global South. The lectures are set up as follows: General knowledge of the issue; Presentation of case studies / experiences related to the considered issue; Presentations of texts / research / projects / good practices.
- LABORATORIES: application of analysis, evaluation, planning and design methods and techniques to international case studies with the support of tutors.
- INDIVIDUAL STUDY.
- PROJECT WORK: final project work conceived and developed with the support of tutors and done individually or in small groups.
- SEMINARS on SPECIFIC TOPICS/EXPERIENCES

The Lectures and laboratories will be divided into 6 Modules addressing the following topics:

- global challenges and sustainable urban development;
- the programs, organizations and tools that support research and international cooperation;
- urban Growth and forms of socio-spatial inequality: the approaches to urban planning and governance;
- the quality of living in informal contexts: problems, approaches and techniques;
- vulnerability and territorial risks: integrated strategies for mitigation and adaptation;
- management of energy-water-food resources;
- protection and promotion of cultural heritage between conservation and development.

COURSE PROGRAMME

START	PRESENTATION OF THE COURSE	AGOSTINO PETRILLO PAOLA BELLAVITI and other teachers of the Course		
MODULE O	SETTING THE SCENE GLOBAL CHALLENGES AND SUSTAINABLE URBAN DEVELOPMENT: CONCEPTS, GEOGRAPHIES AND EMERGING ISSUES	coordinators AGOSTINO PETRILLO GIULIANA COSTA		
SECTION 1	GLOBALIZATION AND CHANGES IN CITIES AND TERRITORIES AROUND THE WORLD	AGOSTINO PETRILLO GIULIANA COSTA		
SECTION 2	SOCIO-ENVIRONMENTAL CONFLICTS LUIGI PELLIZZONI SONIA PAONE			
SECTION 3	GLOBAL MIGRATION PROCESSES	GIULIANA COSTA ANNA GRAZIA FARACA		
SECTION 4	CLIMATE CHANGE, ENVIRONMENTAL EMERGENCIES AND ACCESS TO WATER-ENERGY-FOOD	MARIA CRISTINA RULLI STEFANO CASERINI		
LABORATORY	PROGRAMMES, ORGANIZATIONS AND TOOLS TO SUPPORT INTERNATIONAL RESEARCH AND COOPERATION			
MODULE 1	FACING RAPID URBANIZATION AND SOCIO-SPATIAL INEQUALITIES: THE APPROACHES TO URBAN PLANNING AND THE GOVERNANCE STRATEGIES	coordinators PAOLA BELLAVITI FRANCESCO CHIODELLI		
SECTION 1	THE GLOBAL SOUTH URBANIZATION: CONFIGURATION AND INTERPRETATION	PAOLA BELLAVITI FRANCESCO CHIODELLI		
SECTION 2	APPROACHES AND POLICIES TO FACE URBAN INFORMALITY	PAOLA BELLAVITI FRANCESCO CHIODELLI		
SECTION 3	AFRICAN URBANISM	ALESSANDRO FRIGERIO COSTANZA LA MANTIA ANNA MAZZOLINI MARIA CHIARA PASTORE PAOLA PISCITELLI ANDREA ZAMMATARO		
LABORATORY	TRANSFORMING JOHANNESBURG: RESHAPING SOCIO- ECOLOGICAL LANDSCAPES THROUGH COLLABORATIVE PRACTICE			

MODULE 2	HOUSING QUALITY IN INFORMAL CONTEXT. PROBLEMS, APPROCHES AND BUILDING TECHNIQUES	coordinators CAMILLO MAGNI ANNA DELERA GIAN LUCA BRUNETTI
SECTION 1	SOCIAL CONSTRUCTION OF HABITAT: FROM THEORY TO PRACTICES	CAMILLO MAGNI EMILIO CARAVATTI
SECTION 2	IMPROVING HOUSING QUALITY: TECHNIQUES AND DESIGN EXPERIENCES	GIAN LUCA BRUNETTI LUCA ASTORRI
SECTION 3	FROM HOUSING DEVELOPMENT PROGRAMME TO MICRO HOME SOLUTIONS	MARCO FERRARIO MADDALENA D'ALFONSO
LABORATORY	HOUSING PROJECT IN THE INFORMAL CONTEXT	
MODULE 3	VULNERABILITY AND TERRITORIAL RISKS. INTEGRATED STRATEGIES OF MITIGATION AND ADAPTATION	coordinators MARCELLO MAGONI FUNDA ATUN

SECTION 1	THE GOVERNANCE OF TERRITORIAL RISKS	MARCELLO MAGONI
		FUNDA ATUN
SECTION 2	THE ASSESMENT OF TERRITORIAL RISKS	SCIRA MENONI
		MARIA PIA BONI
SECTION 3	THE COMMUNITY CAPACITY BULDING	GIULIA PESARO
		PAOLO COTTINO
LABORATORY	ANALYSIS AND GOVERNANCE OF THE SEISMIC HAZARD.	
	THE CASES OF ISTANBUI	

MODULE 4	WATER-ENERGY-FOOD NEXUS	coordinator MARIA CHIARA PASTORE
SECTION 1	INTRODUCTION OF WATER-ENERGY-FOOD NEXUS	MARIA CHIARA PASTORE MARIA CRISTINA RULLI
SECTION 2	WEF NEXUS IN THE CITY: URBAN METABOLISM	EUGENIO MORELLO CAROL MAIONE
SECTION 3	WATER, ENERGY AND DEVELOPMENT	EMANUELA COLOMBO ANDREA CASTELLETTI
LABORATORY		

MODULE 5	PROTECTION AND ENHANCEMENT OF CULTURAL HERITAGE AMID CONSERVATION AND DEVELOPMENT	coordinator MARIA CRISTINA GIAMBRUNO
SECTION 1	CULTURAL HERITAGE IN THE PRACTICE OF INTERNATIONAL COOPERATION	MAURIZIO BORIANI M.CRISTINA GIAMBRUNO GAINE CASNATI
SECTION 2	CULTURAL HERITAGE FOR URBAN REGENERATION	M.CRISTINA GIAMBRUNO SONIA PISTIDDA ADALBERTO DAL BO DANIELE BIGNAMI
LABORATORY	NEW TECHNOLOGIES FOR SUSTAINABLE HERITAGE	

TEACHERS AND EXPERTS INVOLVED PRESENT AND PAST EDITIONS

POLITECNICO DI MILANO AND OTHER INSTITUTIONS

EMANUELA COLOMBO, Rector's Delegate for Cooperation and Development, UNESCO Chiar Energy for Sustainable development, DE

GIANNI VAGGI, Former Vice-Rector for International Realations and Director of CICOPS University Centre for International Co-operation, Università di Pavia

MARCELLO BALBO, UNESCO Chair on the Social and Spatial Inclusion of International Migrants – Urban Policies and Practices SSIIM- IUAV PAOLO CECCARELLI, UNESCO Chair in Urban and Regional Planning for Sustainable Local Development, Università di Ferrara

GRAMMENOS MASTROJENI, Head of Decentralized Cooperation, Academic Cooperation and Environment, Italian Ministry of Foreign Affairs and International Cooperation

JACOPO VICIANI, Italian Ministry of Foreign Affairs and International Cooperation

POLITECNICO DI MILANO | DAStU and OTHER DEPARTMENTS/ORGANIZATIONS

FUNDA ATUN, DAStU DANIELE BEACCO, DAStU PAOLA BELLAVITI, DAStU **ELEONORA BERSANI, DAStU** MAURIZIO BORIANI, DAStU GIAN LUCA BRUNETTI, DAStU MARIA CRISTINA CALLINI, DAStU ANGELA COLUCCI, DAStU CHIARA CORTINOVIS, DAStU PAOLO COTTINO, DAStU and Kcity EMILIO CARAVATTI, DAStU and AfricaBougou onlus GAIANÈ CASNATI, DAStU ANTONELLA CONTIN, DAStU **GIULIANA COSTA**, DAStU MADDALENA D'ALFONSO, DAStU LIDIA DIAPPI, DAStU STEFANO DI VITA, DAStU **REMO DORIGATI, DAStU** MADDALENA FALLETTI, DAStU ALESSANDRO FRIGERIO, DAStU FRANCESCO GALLI, DAStU MARIA CRISTINA GIAMBRUNO, DAStU ERMES INVERNIZZI, DAStU

CAMILLO MAGNI, DAStU and ASF Italia MARCELLO MAGONI, DAStU FABIO MANFREDINI, DAStU **ILARIA MARIOTTI, DAStU** SCIRA MENONI, DAStU **GUIDO MINUCCI, DAStU** EUGENIO MORELLO, DAStU GABRIELE PASQUI, DAStU MARIA CHIARA PASTORE, DAStU **RAFFAELE PE, DAStU GIULIA PESARO, DAStU** AGOSTINO PETRILLO, DAStU SONIA PISTIDDA, DAStU ENRICO PREVEDELLO, DAStU **RACHELE RADAELLI, DAStU** RANAA SAFFARI, DAStU STEFANO SALATA, DAStU SIMONA SAMBATI, DAStU MARIANELLA SCLAVI, DAStU and Ascolto Attivo PIER PAOLO TAMBURELLI, DAStU and Baukuh **ANTONIO TOSI, DAStU** FRANCESCA VIGOTTI, DAStU ANDREA ZAMMATARO, DAStU

STEFANO MANDELLI, DE PIERO FRATERNALI, DEIB ANDREA CASTELLETTI, DEIB ANDREA COMINOLA, DEIB DOMENICO VITO, DEIB MARIA PIA BONI, DICA STEFANO CASERINI, DICA ADALBERTO DAL BO, DICA FLORIANA PERGALANI, DICA MARIA CRISTINA RULLI, DICA IRENE BENGO, DIG CLAUDIO DI BENEDETTO, DIG SARAH LUPU, Polisocial

DANIELE BIGNAMI, Fondazione Politecnico PAOLA ESENA, Fondazione Politecnico

JACOPO BARBIERI, GIORGIO BONAMINI, GABRIELE CASSETTI, FRANCESCO LOMBARDI, ALESSANDRO MANZATO, LORENZO MATTAROLO, FABIO RIVA, UNESCO Chair Energy for Sustainable Development

OTHER UNIVERSITIES AND RESEARCH INSTITUTES

STEFANO BOCCHI, CICSAA, Scuola di Agraria, Università degli Studi di Milano JACOPO BONAN, Università Cattolica di Milano LUCA BONIFACIO, Universidad Nacional Agostinho Neto, Luanda SANDRO BOZZOLO, Università di Genova LAURA BUROCCO, Escola de Comunicação/Universidade Federal do Rio de Janeiro SARA CAIMI, ISPC, TU Dortmund FRANCESCO CHIODELLI, Gran Sasso Science Institute BEATRICE DE CARLI, University of Sheffield FEDERICA DUCA, Public Affairs Research Institute -University of Witwaterstrand EMANUELE FANTINI, University of Turin and UNESCO Institute for Water Education, Delft ANNA GRAZIA FARACA, EUPOLIS FABIO ENRIQUE FORERO SUAREZ, Universidad EI Bosque, Bogotà

GIUSEPPINA FORTE, University of California, Berkeley CORA FONTANA, Gran Sasso Science Institute ALEX FREDIANI, DPU - University College London COSTANZA LA MANTIA, University of Witwaterstrand ANNA MAZZOLINI, IUAV **ROBERTO ROCCO, TU Delft** SONIA PAONE, Università di Pisa LUIGI PELLIZZONI, Università di Trieste PAOLA PISCITELLI, IUAV NICOLA TUCCI, FRANCESCO ANTONIO FAGA', Centro studi Desarrollo Etico International STEFAN ZIEGLER, Learning Alliance NGO, Geneve LUCIA WEGNER, Centre for Development Innovation, Wageningen

NGOs and OTHER ORGANIZATIONS

LUCA ASTORRI, ARGOUT ou La Maison Mobile LUCA BISOGNI, NQA LORENZO BONO, Ambiente Italia VIVIANA BRUN, CISV – ONG 2.0 ANDREA CALORI, Economia e Sostenibilità CLAUDIO CASOLO, AFRICA SUNICO, Associazione Isola Pepe Verde, Milano GIANFRANCO CATTAI, Associazione ONG Italiane (AOI) GIUSEPPE DAMIANO, CeLIM-Milano MARCO FERRARIO, Micro Home Solutions LUCA FRANCESCO GARIBALDO, J'eco Guides ERIKA LAZZARINO, Dynamoscopio

CAROL MAIONE, Social Innovation Teams ROBERTA MARCENARO Imark-USA, Washington IGOR MALGRATI, International Red Cross ALESSIA MESSUTTI, International Training Centre of the International Labour Organization FRANCESCO MIACOLA, Anduma / LVIA FEDERICO MONICA , Taxibrousse CRI MURPHY, XCoop, Rotterdam (NL) FONDAZIONE TRIULZA FRANCESCA PAROTTI, ISIA, Firenze LELE PINARDI, CoLomba FRANCESCA SANTANIELLO, InPatto Locale

CALENDAR OF THE ACTIVITIES

2016	DECEMBER	16 th	COOPERA(C)TION DAY
		10 th	PRESENTATION OF THE COURSE
	MARCH	17 th 24 th	MODULE O GLOBAL CHALLENGES AND SUSTAINABLE URBAN DEVELOPMENT: CONCEPTS, GEOGRAPHIES AND EMERGING ISSUES
		31 st	Drafting the Final Report
2017 L _	APRIL	7 th 21 st 28 th 5 th	MODULE 1 FACING RAPID URBANIZATION AND SOCIO-SPATIAL INEQUALITIES: THE APPROACHES TO URBAN PLANNING AND THE GOVERNANCE STRATEGIES
	ΜΑΥ	12 th	Drafting the Final Report
	IVIA I	19 th 26 th	MODULE 2
	JUNE	9 th 16 th	HOUSING QUALITY IN INFORMAL CONTEXT. PROBLEMS, APPROCHES AND BUILDING TECHNIQUES
		23 rd 30 th	MODULE 3
	JULY	7 th	VULNERABILITY AND TERRITORIAL RISKS. INTEGRATED STRATEGIES OF MITIGATION AND ADAPTATION
		14 th	Drafting the Final Report
	SEPTEMBER	15 th 22 nd 29 th	MODULE 4 WATER-ENERGY-FOOD NEXUS
	OCTOBER	6 th 13 th 20 th 27 th	MODULE 5 PROTECTION AND ENHANCEMENT OF CULTURAL HERITAGE AMID CONSERVATION AND DEVELOPMENT
	NOVEMBER	3 rd	Drafting the Final Report

INFORMATION

Admission requirements

The post-graduate course is reserved for candidates with a university Diploma. Both the old and the new Italian system Degree (be it in Architecture, Engineering, Urban Planning, Design, Sociology, Economics and other scientific subjects) are valid. Foreign candidates in possession of an equivalent qualifications from their university systems will be considered eligible. Simultaneous enrolments in a Post-graduate Course, a Laurea Magistrale (equivalent to a Master of Science) programme and a Doctoral Programme are also considered compatible.

Mode of admission

WHERE TO DOWNLOAD THE APPLICATION FORMS:	http://www.dastu.polimi.it/index.php?id=1191
WHERE TO SUBMIT THE COMPLETED APPLICATION FORM:	COOPERA(C)TION – DAStU - Politecnico di Milano Piazza Leonardo da Vinci 26, MILANO (MI), 20133, ITALIA Telefono: +39 02 2399 5476 email: <u>cooperaction-dastu@polimi.it</u>
DEADLINE FOR SUBMITTING THE APPLICATIONS:	January, 11 th 2017
BEGINNING OF THE SELECTION PROCESS:	January, 31 st 2017
SELECTION MODE:	The selection of candidates will be carried out by the Scientific Board through an admission interview to be held at the DAStU. If need be, the interview will be conducted in remote data transmission mode. The final evaluation will be based on a cumulative assessment of: i) the scientific / professional preparation ii) the candidate's motivation and reasons to attend the programme; iii) English proficiency

Titles and credits

Certificate of Post Graduate Programme

"COOPERA(C)TION | KNOWLEDGE AND SKILLS FOR SUSTAINABLE CITIES IN THE GLOBAL SOUTH"

Credits: 15

Students' compulsary attendance: above 70%

Costs of the Course

Full cost: €1.400,00 **Reduced fee***: €700

*The reduced fee of € 700 is applicable to PhD students or to the students (with a university Diploma) who are attending a Degree Course

Contacts

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