

POST GRADUATE PROGRAMME

# COOPERA(C)TION

KNOWLEDGE AND SKILLS FOR SUSTAINABLE CITIES IN THE GLOBAL SOUTH



2016 | 2017 4<sup>th</sup> EDITION

#### IN COLLABORATION WITH





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ENGINEERS
IN URBAN AND REGIONAL PLANNING
WITHOUT BORDERS
FOR SUSTAINABLE LOCAL DEVELOPMENT

# 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

#### **SCIENTIFIC COMMETTEE**

Agostino Petrillo - DAStU, Politecnico di Milano
Gabriele Pasqui - DAStU, Politecnico di Milano
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Anna Caterina Delera - DAStU, Politecnico di Milano
Maria Cristina Giambruno - DAStU, Politecnico di Milano
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Antonella Contin - DAStU, Politecnico di Milano
Gian Luca Brunetti - DAStU, Politecnico di Milano
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Camillo Magni - DAStU, Politecnico di Milano
Francesco Chiodelli - Gran Sasso Science Institute (GSSI)
Maria Chiara Pastore - DAStU, Politecnico di Milano

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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 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 the 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 <b>0</b>	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 RU 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	EDANCESCO 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 ISTANBUL			
	THE CASES OF ISTAINEDEE			
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 MORE CAROL MAIONE			
SECTION 3	WATER, ENERGY AND DEVELOPMENT	EMANUELA COLOMBO ANDREA CASTELLETTI		
LABORATORY				
MODULE <b>5</b>	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

PAOLO CECCARELLI, UNESCO Chair in Urban and Regional Planning for Sustainable Local Development, Università di Ferrara

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

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

MARCELLO BALBO, UNESCO Chair on the Social and Spatial Inclusion of International Migrants – Urban Policies and Practices SSIIM- IUAV

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,

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 El

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 <sup>th</sup>	COOPERA(C)TION DAY
		10 <sup>th</sup>	PRESENTATION OF THE COURSE
	MARCH	17 <sup>th</sup> 24 <sup>th</sup>	MODULE <b>0</b> GLOBAL CHALLENGES AND SUSTAINABLE URBAN DEVELOPMENT: CONCEPTS, GEOGRAPHIES AND EMERGING ISSUES
		<b>31</b> <sup>st</sup>	Drafting the Final Report
	APRIL	7 <sup>th</sup> 21 <sup>st</sup> 28 <sup>th</sup>	MODULE 1  FACING RAPID URBANIZATION AND SOCIO-SPATIAL INEQUALITIES: THE APPROACHES TO URBAN PLANNING AND THE GOVERNANCE STRATEGIES
	MAY	12 <sup>th</sup>	Drafting the Final Report
2017		19 <sup>th</sup> 26 <sup>th</sup>	MODULE 2
	JUNE	9 <sup>th</sup> 16 <sup>th</sup>	HOUSING QUALITY IN INFORMAL CONTEXT. PROBLEMS, APPROCHES AND BUILDING TECHNIQUES
		23 <sup>rd</sup> 30 <sup>th</sup>	MODULE 3
	JULY	<b>7</b> <sup>th</sup>	VULNERABILITY AND TERRITORIAL RISKS. INTEGRATED STRATEGIES OF MITIGATION AND ADAPTATION
		14 <sup>th</sup>	Drafting the Final Report
	SEPTEMBER	15 <sup>th</sup> 22 <sup>nd</sup> 29 <sup>th</sup>	MODULE 4 WATER-ENERGY-FOOD NEXUS
	OCTOBER	6 <sup>th</sup> 13 <sup>th</sup> 20 <sup>th</sup> 27 <sup>th</sup>	MODULE 5 PROTECTION AND ENHANCEMENT OF CULTURAL HERITAGE AMID CONSERVATION AND DEVELOPMENT
	NOVEMBER	3 <sup>rd</sup>	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: cooperaction-dastu@polimi.it

DEADLINE FOR SUBMITTING THE APPLICATIONS:

January, 11th 2017

BEGINNING OF THE SELECTION PROCESS:

January, 31st 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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