

MUNDUS URBANO

International Cooperation in Urban Development

Academic Handbook
Winter Semester 2019-2020

January 2019-2020

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Prof. Dr.-Ing Annette Rudolph-Cleff
Programme Director, Mundus Urbano
Head of the Chair of Urban Development and Design
TU Darmstadt, Germany

Dear Students,

On behalf of the Directory Board, I would like to extend a warm welcome to all new students of the Mundus Urbano programme in the Faculty of Architecture at Darmstadt Technical University. I hope you will have a rewarding and successful experience at our university!

The academic year before you will certainly be both challenging and rewarding. Mundus Urbano, as an interdisciplinary Master of Science programme, offers specialisation in international cooperation and urban development. In its specific programme design, we were led by the idea of diversity as an asset and as an opportunity. As such, the programme you are about to experience involves different backgrounds of students and guest lectures, as well as great thematic diversity with clearly defined objectives. Above all, at the end you are going to be aware of the scope of diversity of strategies in urban development, as well as of the importance of local contexts and cultural values in international development and cooperation, international research projects, as well as in urban planning itself.

The study programme comprises four modules within the forthcoming academic year (Urban Planning, Urban Development, Urban Management and International Cooperation) that are to be taught by guest professors from all around the world. They will offer particular perspectives through their own fields of expertise, country of origin, and professional experience. In this way, during the first year of study you will be privileged to get first-hand experiences from all over the globe, without the necessity of leaving the classroom. You will be acquainted with different challenges that planning is facing nowadays, as well as with diverse planning strategies, and constellations of actors and decision-making levels in various environments and countries. In addition, your forthcoming academic experience will be supported both by the main planning theories and by a wide spectrum of case studies. Finally, you will be able to significantly enrich your professional connections with many visiting lectures and especially with fellow students. These contacts will be extremely valuable in your future professional activities after the completion of your studies. Through the mixture of various topics, lectures on international competence and experience exchange of your own, we expect you finally to find and improve your personal standpoints. However, you should also be aware that we are here to support your success as members of our community at the Darmstadt Technical University.

We are certainly looking forward to working with you during the upcoming exciting year at our Faculty of Architecture! Wishing you a wonderful, challenging, and successful year!

Sincerely,

Prof. Dr.-Ing. Annette Rudolph-Cleff
Chair of Urban Development and Design
Contact: rudolph@stadt.tu-darmstadt.de

Introduction: Mundus Urbano

Mundus Urbano (MU) is an interdisciplinary Master of Science programme specialising in International Cooperation in Urban Development, jointly offered by four European universities. It addresses the dynamic challenges faced throughout the world due to rapid urbanisation processes.

For the first time in human history, more than half of the world's population lives in cities, a number which is expected to reach 6.4 billion people by 2050. This means that the urban population will double in the coming decades, whereas the urban built-up area will triple.

In developing countries, particularly, this scenario is associated with a complex management of the urban expansion and insufficient delivery of infrastructure and public services, which lead to severe poverty, diseases, high child mortality, low literacy rates, high social inequality and violence. Developing countries are also more likely to suffer from climate change, natural disasters, environmental problems, destruction of cultural heritage, political crisis and war, not mention a lack of economic competitiveness to finance urban expansion and counter associated problems. Not only do they face the largest growth challenges, but also the largest capacity and resource gap.

Therefore, MU provides adequate professional and academic solutions that are required to address the steadily increasing needs in the field of urban development and international cooperation. The two-year course is innovative in its trans-disciplinary set-up and arranges knowledge around emerging global phenomena, rather than only around purely academic frameworks.

Trans-disciplinary approach

Conventional town planning approaches have proven inadequate in dealing with the constantly evolving urban challenges. MU provides innovative trans-disciplinary solutions, including physical, managerial, economic, social and legal elements simultaneously. It provides students with the highest quality academic resources and teaching staff, and affords them insight into current development planning theories and practices, instigating them to propose architecturally, socially, economically and ecologically sustainable urban development solutions. As a large proportion of investments involve foreign aid, MU also focuses on international cooperation practice, which faces an under-served need for well-prepared urban development experts.

Diversity as an asset

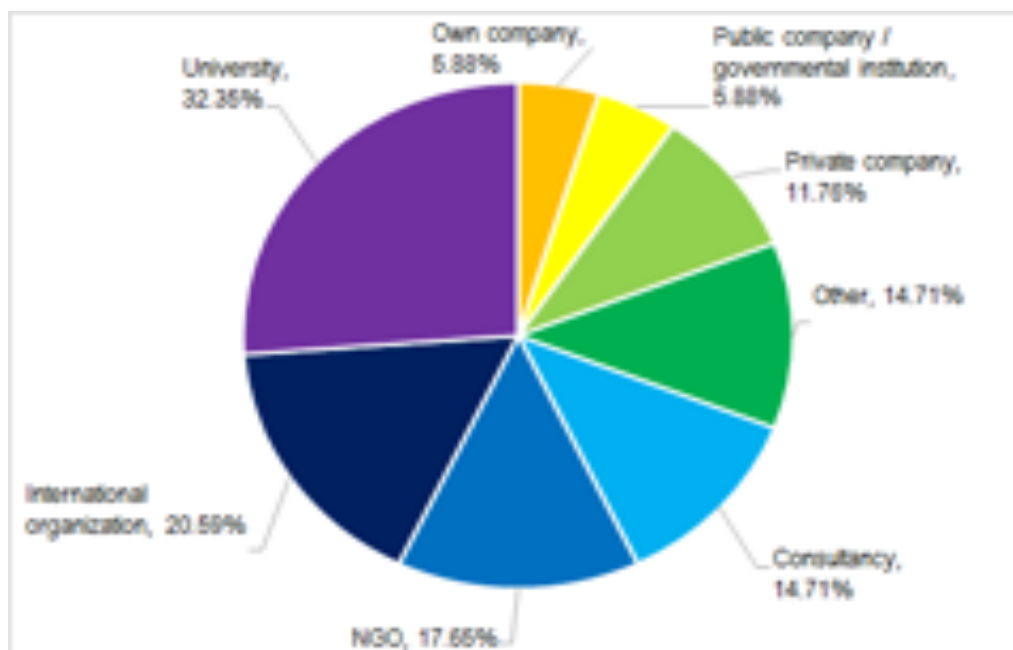
The multi-faceted composition of both the Mundus Urbano student groups and teaching staff fosters a diverse learning environment and allows for the development of a global professional network. Lecturers and students have backgrounds that range from engineering, architecture and design to social and political sciences, coming from different parts of the world.

International double degree

Mundus Urbano produces advanced graduates who can innovatively address the complexities of the phenomena facing the world's urban populations, mostly in developing countries. The consortium structure of the program allows students to pursue a double degree in International Cooperation in Urban Development with specialisations in Development Economics (Rome), Sustainable Emergency Architecture (Barcelona) or Urban Planning (Grenoble).

Vast working field

Professionals are increasingly required to undertake projects internationally in the urban development field. MU builds the capacity to meet the challenges that this type of work presents and prepares both professionals and academics for critically analysing and assessing the growing problems in urban areas internationally. Internship opportunities arise during the course and Mundus Urbano alumni are skilled to work in institutions as international cooperation agencies, municipal planning offices, research institutes and consultancy firms, involved in international finance, foreign aid, human settlements, slum improvement and infrastructure development, among other areas. MU also provides improved access to PhD programs. MU graduates thus far show the following career path distribution:



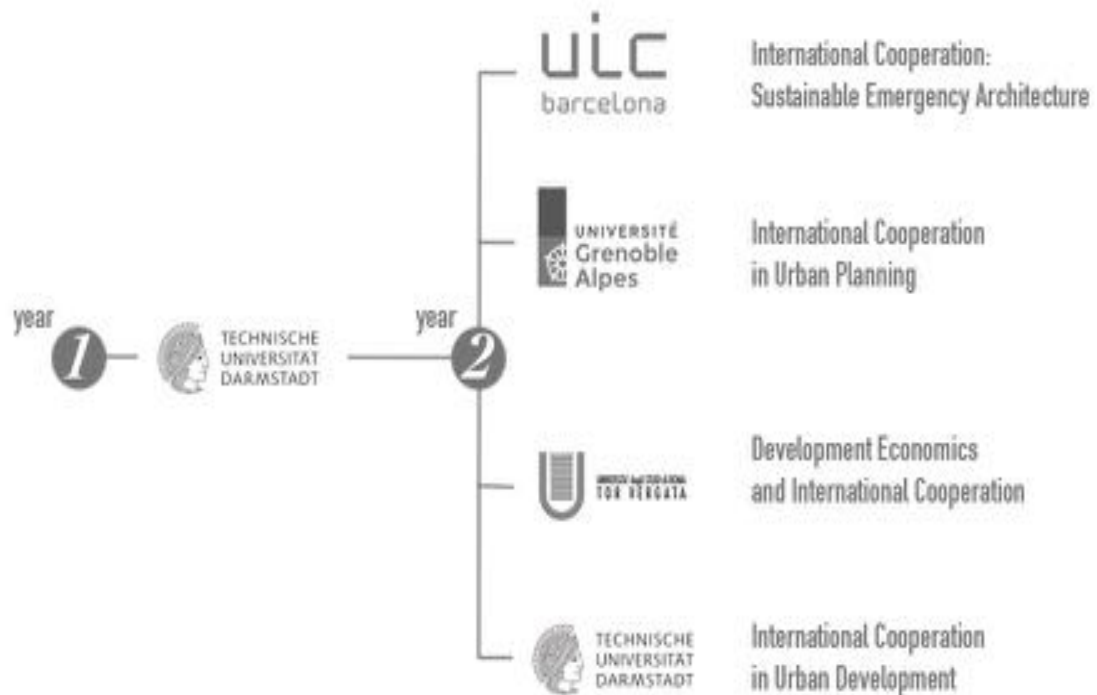
Career path distribution with percentages since 2007, alumni survey 2017.



Interdisciplinary Master of Science Programme

The Mundus Urbano master's programme was partially funded from 2008- 2017 through scholarships and basic funding by the prestigious Erasmus Mundus programme of the European Union, aiming to enhance the quality of European higher education and to promote intercultural understanding through cooperation with third countries, particular in the global South.

At present, Mundus Urbano Consortium is a self-sustaining double degree Master of Science programme, jointly offered by four European universities. The host institution for the Mundus Urbano Consortium is the Faculty of Architecture at TU Darmstadt



Four European universities jointly offer the Mundus Urbano master's programme:

- Technische Universität Darmstadt (TU Darmstadt) - host institution
- Université Grenoble Alpes (UGA), in Grenoble
- Universitat Internacional de Catalunya (UIC), in Barcelona
- Università degli Studi Roma Tor Vergata, in Rome

All students spend the first year of the two-year programme at TU Darmstadt. The second year is completed at one of the partner institutions, resulting in a double-degree award.

Year 1



Module 1: Urban Planning

Module 2: Urban Development

Module 3: Urban Management

Module 4: International Cooperation

Year 2



The second year at UIC, Barcelona, provides students with tools to tackle sustainable post-disaster architecture and urbanism, responding to the needs for prevention and recovery processes. The programme focuses on inclusive planning integrating different disciplines and social groups through a bottom-up approach.



Tor Vergata, in Rome, offers a specialisation in development economics giving the students the possibility to deepen their knowledge of the process of urbanism from an economic perspective. The programme focuses on subjects connected to poverty reduction, inequality, welfare, sustainable development, microfinance, gender and food



The Institute of Urbanism and Geography (IUGA) at Université Grenoble Alpes in Grenoble, exposes students to traditional fields of urban thinking in light of emerging trends. The focus is on urban culture and form influenced by globalisation. Grenoble offers a fully certified urban planning programme, allowing graduates to register as urban planners.

Board of Directors



Prof. Dr.-Ing. Annette Rudolph-Cleff

Prof. Dr.-Ing. Annette Rudolph-Cleff is the master's programme administrative director and the Mundus Urbano Consortium Coordinator. She is also the head of the Chair of Urban Development and Design (Fachgebiet Entwerfen und Stadtentwicklung) at the Faculty of Architecture since 2006. Prof. Rudolph-Cleff holds a PhD from the University of Karlsruhe on housing policy and urban development. Currently she is involved in an international research project on urbanisation and locality, as well as in a project on semi-centralised supply and treatment systems for fast-growing urban areas. For her extensive scientific work, Prof. Rudolph-Cleff received many prestigious awards, of which one of the latest was the Greentech Award in the category "Urbanisation" (2015). Prof. Rudolph-Cleff coordinates the Mundus Urbano Consortium and the master's programme at TU Darmstadt, with the support of Nina Gribat and the deputy director Prof. Jörg Dettmar.

Contact: rudolph@stadt.tu-darmstadt.de



Prof. Dr.-Ing. Jörg Dettmar

Prof. Dettmar heads the Chair for Design and Landscape Architecture at the Faculty of Architecture since 2000. In 1992, he completed his PhD on the ecology of industrial derelict land in the Ruhr District, a region he has always been affiliated with. He is devoted to several research projects, which are funded by different German federal ministries due to their outstanding contributions to interdisciplinary debate, including the projects "Sustainable Urban Landscape in the Metropolis Ruhr" and "Integrated Regenerative Energy Concepts in Urban Areas". Aside from his position as professor, he works as a freelance consultant. Based on his vast experience—both academic and professional—Jörg teaches a multi-faceted introductory course on Urban Ecology.

Contact: dettmar@freiraum.tu-darmstadt.de

Management:



Dr.-Ing. Nebojša Čamprag
Consortium Manager

Dr.-Ing. Nebojša Čamprag is responsible for the coordination on the relation between the EACEA of the European Union and the Mundus Urbano university consortium. Besides teaching and research activities, Dr. Camprag is also in charge of selection processes, both for prospective MU students and international scholars.

Contact: camprag@stadt.tu-darmstadt.de



Dr.-Ing. Anshika Suri
Programme Manager

Dr.-Ing. Anshika Suri is responsible for the academic coordination and overall management of the taught courses in the first year of the programme at the TU Darmstadt, alongside teaching and research activities.

Contact: suri@mundus.tu-darmstadt.de



Edith Subtil
Programme Secretary

Edith Subtil is responsible for the Mundus Urbano administrative and financial matters.

Contact: info@mundus.tu-darmstadt.de



Mark Aguirre
Marketing & Communications Manager

Mark Aguirre holds a Bachelor's degree in Political Science from the University of Illinois at Urbana-Champaign. He is currently a 2nd-year Master's candidate in Mundus Urbano and works as the program's Communication Manager.

Contact: maguirre@mundus.tu-darmstadt.de

A leading university of technology



Since its founding in 1877, TU Darmstadt has played its part in addressing the urgent issues of the future with pioneering achievements. TU Darmstadt focuses on selected, highly relevant problem areas. Technology is at the heart of all our disciplines at TU Darmstadt. The Natural Sciences as well as Social Sciences and Humanities cooperate closely with Engineering. In order to expand its expertise strategically, TU Darmstadt maintains a variety of partnerships with companies and research institutions. It is a vital driving force in the economic and technological development of the Frankfurt-Rhein-Neckar metropolitan area.

Our excellent research has been recognised by multiple grants within the Federal Excellence Initiative. Our graduates enjoy an excellent reputation in the business world. Our outstanding performance makes us one of the leading universities of technology in Germany and has earned us international visibility and renown.

Excellent opportunities

Students and academics at TU Darmstadt combine outstanding research with robust practical applicability. This is how we create excellent opportunities on all rungs of the career ladder.

We qualify our students for demanding jobs in science and business with courses that are research-oriented, but also prepare them for the requirements of working life. Our students evolve into creative, discriminating individuals. The international nature of our courses guarantees a formative experience and openness towards international students. A degree from TU Darmstadt bears a quality label that opens up the best career opportunities.

At TU Darmstadt, scientists will find a stimulating, highly supportive environment for both post-graduate work and further scientific careers. They work in international teams and in close cooperation with academic and corporate partners. TU Darmstadt's culture of cooperation paves the way for outstanding achievement.



Campus Lichtwiese

The Lichtwiese in the south-east part of Darmstadt lies between Nieder-Ramstädter Street and the railway embankment of the Odenwald Train.

The area was used in 1924 by the TU as an airfield for the university's Academic Flying Group. Afterwards, the airfield was further developed and became an international airport. After the airport's demise in the 1960's, the University regained ownership of the land and, due to shortage of space, relocated various faculties to the Lichtwiese. The campus is now home to the faculties of Architecture, Chemistry, Mechanical Engineering, Civil Engineering and Material Science and has its own cafeteria as well as brand-new lecture hall and library facilities.

Mundus Urbano Department

The department is located in the Faculty of Architecture (L3|01) on the ground floor (Room 8).

Participants: 2019 – 2021



Ahmed, Ismail Magdi
Egypt
Engineering



Allah, Hiba Karam
Sudan
Architecture



Anderson, Trevor
Canada
Architecture



Awari, Aditya
India
Architecture



Fatima, Fizza
Pakistan
Architecture



**Francis, Laura
Patricia Perez**
Mexico
Architecture



**Heilekiros
Gebregiwergis, Kasa**
Ethiopia



Krishnanunni, Jithendra
India
Architecture



Manzo Herrera, Xatria
Mexico
Architecture



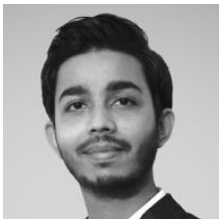
Mitra, Sreeparna
Architecture
India



Nolasco, Lucas
Brazil
Civil Engineering



Paik, Jong Hee
South Korea
Architectural Environment
Engineering



Parashar Abhijit
India
Architecture



Praba, Swarna
India
Architecture



Raut, Shantanu
India
Architecture



Raveendran, Aswini
India
Civil Engineering



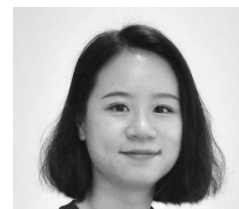
Reis, Oshrit
Israel
Architecture



Thakur, Vinaya
India
Architecture



**Vazhoth Palliyil,
Vijay Gopal**
India
Architecture



Xiao, Gaoli
China
Civil Engineering
Management

Winter Semester Programme Overview Year 2019 – 2020

During the winter semester, the schedule of important dates is as follows–

Date	Event
September 2019	
03 – Tue	Placement test: 09:00 AM, Lecture Hall S1/05 122
05 – 27	Intensive German Course: daily from 08:55 – 12:55 AM
30 – Mon	Intercultural Communication Workshop
October 2019	
01 – Tue	Introduction to Mundus Urbano
03 – Wed	Public Holiday – Day of German Unity
07 – Mon	Darmstadt City Walk (14:00 onwards)
09 – Wed	Seminar Bazaar – Enrolment for Elective Courses
16 – Wed	Visit– Digitalstadt Darmstadt – SMART City Office
November 2019	
08 – Fri	GIZ International Students Day on Urban Development
December 2019	
04 – Wed	Research Day – Tag der Vorschung – Dept. of Architecture
07 – Sat	Start of Winter Break
January 2020	
05 – Sun	End of Winter Break
February 2020	
03 – 07	Joint Consortium Workshop: Grenoble
24 – 28	Urban Resilience – Elective Course
28 – Fri	Deadline for second year mobility choice
29 – Sat	End of Winter Semester – Beginning of Semester Break
April 2020	
08 – Wed	Seminar Bazaar- Enrolment for Elective Courses
14 – Tue	Beginning of Summer Semester Classes- Mundus Urbano

During the winter semester, the schedule of mandatory courses is as follows: –

Date	Course	Lecturer
30 Sep – 04 Oct	Introduction Week	In House
07 – 11 Oct	Reading & Workshop Week	In House
14 – 18 Oct	Introducing the SMART City	Justin Beaumont
21 – 25 Oct	On the Move	Marianne Halblaub Miranda
28 Oct – 01 Nov	Urban Planning and Building	Annette Rudolph-Cleff
04 – 08 Nov	Urban Ecology	Jörg Dettmar
11 – 15 Nov	Nature based solutions in Urban Planning	Jochen Hack
18 – 22 Nov	The Spatial Bias: slums and the recursive history of integral urban planning	Alejandro de Castro Mazarro
25 – 30 Nov	Participatory Planning and Design	Yasar Adanali
02 – 06 Dec	Housing 2.0	Yasar Adanali
07 Dec – 05 Jan	Winter Break	
06 – 10 Jan	Urbanisation and Infrastructures	Gül Tulcatan
13 – 17 Jan	Reading and Reflexivity Week	In House
20 – 24 Jan	Disaster Risk Management	Claus Hemker
27 – 31 Jan	Reconstruction Project Management	Claus Hemker
03 – 07 Feb	Joint workshop in Grenoble	In House
10 – 14 Feb	Urban Economics	Paolo Paesani
17 – 21 Feb	Urban Economics	Paolo Paesani
24 – 27 Feb	Resilience (elective)	Annette Rudolph-Cleff
02 Mar – 14 Apr	Spring Break	
Semester Courses	Long	
Every Thursday 09:30-11:00	History of Planning Theory	Donna Drucker

The weekly class schedule is as follows:

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00 - 12:00				History of Planning Theory 09:30-11:00	09:00-12:00 Class
	LUNCH BREAK				
13:00 - 14:30	Class	Class	Class	Class	13:00 - 15:00 Class
	COFFEE BREAK				
14:45 - 16:15	Class	Class	Class	Class	
	COFFEE BREAK				
16:30 - 18:00	Class	Class	Class	Class	

Elective courses offered at the faculty can be selected at the **"Seminar Bazaar"**. The Seminar Bazaar is a special event for all students in the Department of Architecture, where information on all the elective courses being offered in the Department is presented. It will take place on **Wednesday October 09, 2019** between 14:00 and 16:00. During this event, you can get information about additional courses offered and sign up for them on TUCaN.

As a student at TU Darmstadt, you have to sign up for TUCaN, which is the central organisation system for courses and examinations, in order to receive and participate in mandatory and elective courses

Winter Semester Courses Year 2019 – 2020



Lecturer:

Nebojša Čamprag & Anshika Suri

Date:

30 Sep – 04 Oct

Introduction week: Intercultural Communication Skills

TUCaN Code: Intercultural Communication – 15-07-1150

Working with different cultures requires sensitivity to cultural differences. In an increasingly global environment, professionals must interact effectively with people who have different values, behavioral norms, and ways of perceiving reality. Many jobs now entail an international dimension, so the need to develop intercultural competences has taken on a greater importance for more people than ever before. Intercultural competence is the ability to recognize and use cultural differences as a resource for learning and for generating effective responses in specific contexts. Cultural misunderstandings occur in interactions not only when difference is observed and misinterpreted, but also when surface similarities (e.g. in language, dress and etiquette) mask significant differences at the deeper, submerged levels.



Lecturer:

In House

Date:

07 – 11 Oct

Reading & Workshop Week

TUCaN Code: Basic Readings I – 15-07-1180

This course introduces critical reading and writing discourse and practice. As part of academic skills training, the module will introduce students to critical reading methods and writing critical summaries for a scientific academic text. It will provide students with readings that offer an overview and introduction to urbanisation and development discourse in order to provide a point of departure for developing urban analytical skills. Students will read and present critiques on chosen academic texts on the last day of the module. Alongside the taught module, students will also participate in a workshop with visiting students from Universidad del Valle (Colombia) through an exhibition on 'the city as a residence of peace'. Lastly, students will also join in the orientation week activities of the Department of Architecture, including seminar bazaar and department introduction.



Lecturer:

Justin Beaumont

Date:

14 – 18 Oct

Introducing the SMART City

TUCaN Code: Urban Planning I – 15-07-1101

This course introduces the notion of the “smart city”. The core aim is to encourage students to reflect critically on the opportunities and difficulties for planners to implement sustainable urban development in countries of the Global South. A smart city is an urban area that deploys a range of electronic devices such as Internet of things (IoT) sensors to gather data to manage assets and govern the efficient provision of public services. From flagship cases in Amsterdam, Barcelona and New York, and elsewhere in cities of the Global North, smart cities collect, process and analyze data to manage, for example, traffic and transportation systems, water supply networks, waste and energy management and across of assortment of community and public services. For many observers in academic, business and government circles, smart city innovations represent a technologically driven panacea for urban development and governance practices worldwide. Students will engage readings and discussions to conceive the smart city and digital transformation at large as piecemeal changes that are distributed unequally across space at the crossover between public, private and community sectors, rather than as a wholesale transition to surveillance capitalism. Students will look beyond the hype to assess what is possible and what is not for planners in the real world of rapid urbanization, postcolonial power relations and deeply entrenched inequalities in the Global South.



Lecturer:

Marianne Halblaub Miranda

Date:

21 – 25 Oct

On the Move

TUCaN Code: Urban Planning II – 15-07-1102

Inner-city multimodal transport hubs are complex structures. In them, we can depart & arrive, change means of transport & wait, bid welcome & goodbye, and eventually get to do some late-night shopping. These experiences vary depending both on the individual situation as well as on the design, spatial, and social factors in the respective node. We will approach these themes in an analytical manner, and consider individual transport modes and transfer processes in isolation. The aim is to compile a catalogue including hard facts about transport modalities and transfer processes as well as good practice examples and own optimization proposals. The collected findings are to be visualized and documented.



Lecturer:

Annette Rudolph-Cleff

Date:

28 Oct – 01 Nov

Urban Planning & Building

TUCaN Code: Urban Planning III – 15-07-1103

The complexity of urban systems and the uncertainty of the impact of urbanization and climate change asks for new ways of thinking about planning objectives. Cities are complex, adaptive systems of networked infrastructures. Growing urban populations, the concentration of resources and capital, unclear contingency planning, the often inadequate and environmentally unsound water supply and sewage management, the continual destruction of ecosystems, and out-dated infrastructures and buildings, all present massive challenges to city planning. With the goal of strengthening resilience, there has been a lasting change of perspective in planning. The scope has been broadened from a specialized viewpoint to an interdisciplinary understanding of interactions and processes within the cityscape. Resilience is an anticipatory principle that transcends risk reduction and attempts to mitigate the effects of system failures while increasing capacities. The course therefore aims to introduce the topic of resource sensitive urban design as an issue of growing importance. The classes are built on the lectures, followed by group work, in which the students should discuss, present and critically assess the most important tools for climate adaptive planning and building and resource sensitive urban design. Research projects of our research team at Technical University Darmstadt will be used demonstrate possibilities and challenges of this approach.



Lecturer:

Jörg Dettmar

Date:

04 – 08 Nov

Urban Ecology

TUCaN Code: Urban Planning IV – 15-07-1104

Cities contribute considerably to global warming and the exhaustion of non-renewable resources. Thoughtful urban planning, on the other hand, can help to reduce the damage. This course introduces principles of sustainable urban planning, encompassing economic, social and environmental outcome. The application of sustainable development principles to urban development and to key urban systems like transport, water supply, sewerage and wastewater treatment, solid waste disposal, energy systems and air quality—are examined. Principles of ecological urban design are introduced and the economic value of quality and sustainability in the urban environment are examined. Poverty and the role of the informal sector in sustainable development are addressed.



Lecturer:

Jochen Hack

Date:

11 – 15 Nov

Nature-based solutions for urban planning

TUCaN Code: Urban Planning V – 15-07-1105

The aim of this course is to provide an overview of Nature-based solutions for urban planning contexts. An initial analysis of how urbanization impacts the water balance and the ecology of rivers will be followed by an introduction to different green infrastructures and the holistic assessment of these. The lecture includes several hands on-exercises based on project examples of the SEE-URBAN-WATER research group. Inter- and trans-disciplinary working is a central topic of the course.



Lecturer:

Date: Alejandro de Castro Mazarro

18 – 22 Nov

The Spatial Bias: Slums and the recursive history of integral urban interventions

TUCaN Code: Urban Development I – 15-07-1111

Despite the number of renowned and impressive urban design interventions recently built at informal settlements throughout the world, the growth and resilience of slums today represent an epistemological gap for spatial disciplines. To respond to this problem, this seminar will debate three key episodes of international development planning and architecture, which reflects a historical controversy in addressing informality, to assess the role of design in solving social problems tied to poverty and inequality. Students will actively engage these debates through debate sessions, which will occur each day along with a themed introduction (given by the instructor) and a group, reading preparation. The seminar will be centred around four historical debates: Friedrich Engels' characterization of "The Housing Problem"; John Turner's characterization of "self-help" housing; World Bank's "Sites and Services" Program; and the "Incremental Housing" of Elemental in Chile.



Lecturer:

Yaşar Adanalı

Date:

25 – 29 Nov

Participatory Planning and Design

TUCaN Code: Urban Development II – 15-07-1112

When considering the bottom-up mobilization of urban citizens and their claim for enhanced democracy in urban governance, a flashing keyword is participation. The term is utilized both as a tool for better urban governance (defining the roadmap / methodology) and as an adjective characterizing the quality of the act of governing (consolidating democracy). Yet, it is difficult to package participation neatly within a single statement. The concept of participation is an umbrella term, with various meanings and practices in the development field. Participatory approaches have emerged out of the recognition of the shortcomings of top-down development approaches, which range from methodological concerns to discursive ones. Acknowledging the ineffectiveness of externally imposed, top-down, expert-oriented planning and research paved the way to participatory research and planning in 1980s.



Lecturer:

Yaşar Adanalı

Date:

26 – 30 Nov

Housing 2.0

TUCaN Code: Urban Planning Workshop – 15-07-1107

Housing is one of the key issues in the field of urban development and it is probably the main strategic driver of urbanism. The housing question brings together the necessities of quantity, quality and affordability. However, the dominant discourses and approaches are far from providing holistic answers to the question. As part of this course, students will engage with one particular case, which is rich enough to entail multifaceted debates and challenges in housing theory and practice. Students will be responding to an international call for solidarity made by Düzce Housing Cooperative for Homeless Earthquake Victims in Turkey (The Cooperative). They will work as an interdisciplinary / international task force to provide models and idea projects for the upcoming co-housing project of the Cooperative for its 234 members.



Lecturer:

Gul Tulcatan

Date:

06 – 10 Jan

Urbanization and Infrastructures

TUCaN Code: Urban Development III – 15-07-1113

Infrastructures such as energy, water, wastewater, telecommunication, and transport systems guide and facilitate urban life in a multitude of ways. They are backbones for livelihoods and economies, integrate (or splinter) cities socially and spatially, and mediators of resource flows.

Under such a perspective, the course introduces the key characteristics and problems regarding infrastructures within the larger contexts of urbanization and environmental justice, while providing an overview of evolving debates concerning the concepts of infrastructure, urbanization, technology, large technical systems, and infrastructure planning.



Lecturer:

Anshika Suri & Nebojša Čamprag

Date:

13 – 17 Jan

Reading and Reflexivity Workshop

TUCaN Code: Urban Development IV – 15-07-1114

Reading and reflexivity weeks are intended to provide students with the time to reflect on what they learnt from the previous courses, with the aim of gaining an in-depth knowledge of their preferred topic of interest. This course will provide three aims, starting with discussion and evaluation of the previous courses. Moving on further, the students will partake in inputs provided through a supervised framework. Lastly, the students will then engage in their topics of interest through individual/group activities to deepen their knowledge.



Lecturer:

Claus Hemker

Date:

20 – 24 Jan

Disaster Risk Management

TUCaN Code: Urban Development V – 15-07-1115

27 – 31 Jan

Reconstruction Project Management

TUCaN Code: Urban development Workshop – 15-07-1117

In the first week of this course, participants will be introduced to the basic skills of disaster and risk management in the urban field. The preventive action against hazard threats is the prime instrument to reduce impacts. Knowledge of the nature of those threats - caused by conflicts, natural hazards or technological risks - forms the basis for response action. Adequate response capacities and the availability of logistic and supply resources are elementary. The second week will focus on Post disaster reconstruction project. We will familiarize with the Humanitarian Charter and the Concept of Minimum Standards in Humanitarian responses. W we will learn more about appropriate standards and procedures for fast response, as well as transparent, accountable and efficient reconstruction project management tools.



Lecturer:

Consortium Workshop

Date:

03 – 07 Feb

Joint Workshop: Grenoble

TUCaN Code: Excursion I – 15-07-1170 (Elective)

During the workshop, our students will travel to one of the partner universities where they are going to work collaboratively with second year students of the Mundus Urbano programme. The overarching topic is organised by the respective host university and will be communicated in advance. Our 2019 edition of the workshop will be hosted at Université Grenoble Alpes in Grenoble. The workshop will take place with the theme: *Future Metropolitan Planning in Grenoble*. The objective is to involve the students in– planning practices being adopted in urban city planning, exploring different strategies and planning principles– through the case study of Grenoble.



Lecturer:

Paolo Paesani

Date:

10 – 21 Feb

Introduction to Urban Economics

TUCaN Code: Urban Management I – 15-07-1121

TUCaN Code: Urban Management II – 15-07-1122

The aim of this course is to provide an overview and introduction to the field of urban economics as a branch of microeconomics and economic policies. A critical analysis of the economics of cities and urban spatial structures will be given. It will cover theoretical considerations and policy implications such as the existence and growth of cities, land use theories, urban transportation, pollution, poverty, crime, and housing. The lectures will be closely related to the indicated textbooks – “Essentials of Economics” by J. Sloman and D. Garratt (7th edition) and “Lectures on Urban Economics” by J.K. Brueckner. Weekly readings will mainly include textbook chapters, which may be combined with academic journal articles, statistical information, and newspaper articles. The course will commence with a final written exam taking place on Friday, 21 February 2020



Lecturer:

Donna Drucker

Every Thursday (Semester long course)

09:30 – 11:00

History of Planning Theory

TUCaN Code: Academic Writing – 15-07-1160

This course addresses the history of city planning in North America and Europe from the eighteenth century through the present. The course particularly focuses on the ways that the ideals and values of town and city planners, including democracy, justice, equality, and neoliberalism, manifest in the spaces and infrastructures of cities. It illustrates how historical context shapes city planning and the contours of cities over time. The course addresses how and why city planning became a profession, and how the professionalization of planning shapes cities in various ways. The course highlights moments in the histories of North American and European cities when planning took a central role in determining those cities' present and future. At its core, this course takes on fundamental questions about who decides how human living space should look, and the ways those different members of society live their lives.

Elective Courses: Winter Semester 2019-2020

(Recommendations– to be signed up in the Seminar Bazaar)



Lecturer:

Annette Rudolph-Cleff & Simon Gehrmann

Date:

24 – 27 Feb

Urban Resilience

TUCaN Code: (Elective) – 15-02-6499 (3CP)

Natural and human-induced hazards, along with the effects of climate change, are representing unprecedented challenges to cities and human settlements today, also being a serious threat to their social and economic development. The situation gets even more dramatic when considering that many cities around the globe are not only getting bigger and more densely populated but also most of them are located in the hazard-prone regions—such as in coastal zones. This vulnerability is even more exacerbated by poverty, environmental degradation, and unsustainable use of water and natural resources. Although well underway in a number of cities around the world, planning for urban resilience, as a capability to prepare for, respond to and recover from significant multi-hazard threats with minimum damage is not so easy to accomplish, as a consequence of (former) unsustainable growth programmes. The seminar, therefore, aims to introduce the topic of urban resilience, as an issue of growing importance. The classes are built on the lectures to be held both by academics and professionals, followed by group work, in which the students should discuss, present and critically assess the most important tools for building urban resilience.



Lecturer:

Sprachenzentrum

Semester-long elective course

Language Courses

Students may attend language classes in German and/or one of the following languages (French, Italian or Spanish depending on the preferred second year mobility), which will prepare them for everyday situations. Attendance in a student's respective native tongue will not be considered relevant. Students may be awarded a maximum of 6 CP towards their Mundus Urbano degree for language courses (either to one single class or split up.) The intensive German course offered in September can also fill these credit points. German language courses are free of charge to international students.



Lecturer:

Anshika Suri

Date: Tuesdays, 09:30-11:00 (once every two weeks), Semester Long Course

Gender and the City

TUCaN Code: (Elective) – 15-02-6541, 3CP

Gender is built into the cities we inhabit. Gendered identities can be seen in the design of homes and workplaces, the physical layout of neighborhoods, and the modes of transportation we use to move through cities. However, gender remains a neglected focus within theory and practice that is shaping cities (Beebeejaun, 2017), with most urban design and planning activity being evidently gender-blind (Rakodi, 1991). Architects and Planners rarely recognize that the needs and experiences of users differ based on gender identities. Thus, how gender identities linked to discourses about the city, who can use urban spaces without fear and who benefits from the opportunities of urban life—are questions that lie at the heart of this course. In this course, we will explore how gender shapes everyday interactions and experiences of urban– public space, built environment and infrastructures. Students will begin the course with a theoretical overview of the debates and themes in gendered approaches in urban planning. In the process, we will build a set of conceptual tools to analyze urban processes in various global regions through readings, class discussions, films, group work and fieldwork. Next, the course will focus specifically on a case study analysis of our everyday environment, with the students in a group examining key public infrastructures in the TU Darmstadt-Lichtwiese campus. Finally, based on the conceptual tools discussed in class, the students will present their findings and analysis of gendered usage of space in urban everyday life in academic institutions.



Lecturer:

Dhara Patel

Date: Thursdays 11:40 – 13:20 (15 classes)

Winter Semester dates:

17.10.2019 - 23.12.2019, 10.01.2020 -13.02.2020

Architecture at the Intersection Of Identity, Culture And Otherness

TUCaN Code: (Elective-check semester booklet)

This subject works on the premise of architecture at the intersection of identity, culture and otherness. Urban environments have been substantially transformed by increasing socio-cultural diversity through transnational migration as a result of globalised economies in the late twentieth and early twenty-first century. In this scenario, Architecture does the work of mediating between cultures and the soft entry into a culture is when familiar objects, artefacts, buildings and even street patterns begin to contain aspects of cultural difference.

Framed within the context of globalization, this seminar then aims to look at architecture as a practice that mediates cultural encounters and it does so in stages, hence the seminar will provide an overview of – how architecture does it in an urban context, how it does it in a street pattern or even in a spatial template which might be altered over time and what are the resultant consequences and responses at those different scales and different geographical locations as sites of emigration or immigration. The course is designed as a reading seminar; i.e. the focus is on the textual work as well as the readiness for a committed engagement with what was read in the seminar.



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International Cooperation
in Urban Development

**Photos courtesy of alumni
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