

Day to Day Program Overview Masterclass Smart Sustainable Cities – Utrecht 2022

What does the city of the future look like? Since the beginning of the 21st Century the majority of the world population lives in an urban area. The Masterclass Smart Sustainable Cities discusses how to boost the sustainable development of cities. In one week, we will dive into several highly relevant themes such as clean air, mobility, waste, energy, and also innovation, inclusiveness, participation and smart solutions to these issues.

Participants will be introduced into several relevant themes for developing smart sustainable cities. During the course students will be working with the handbook for applied sciences 'Smart Sustainable Cities (Rietbergen, Velzing & Van Sitgt (eds), 2021). In combination with an integral assignment, students will capture theories, methods and tools relevant for analysing Smart Sustainable Cities and developing smart solutions for sustainability challenges within cities.

The assignment will be carried out in teams, and will apply the theory and tools on a the city of Utrecht. In addition to the theories learned, with the assignment, participants will present an innovative solution for the city that is central to their assignment, and make a comparison with their hometown.



Preliminary Programme*

		Wednesday 17 August 09:00-17:00 hr	Thursday 18 August 9:00-17:00	Friday 19 August 9:00-17:00
		Course Introduction <ul style="list-style-type: none"> - Getting to know each other - Introduction on Smart Sustainable Cities - Introduction to the programme Excursion City of Utrecht	Systemic Design Thinking <ul style="list-style-type: none"> - Viewing and structuring the design process by iterations - Double Diamond Model - Involve complex contexts Work on assignment	Behaviour in cities <ul style="list-style-type: none"> - Understanding behaviour - Campaigning for behavioural change Work on assignment
Monday 22 August 09:00-17:00 hr	Tuesday 23 August 09:00-17:00 hr	Wednesday 09:00-17:00 hr	Thursday 9:00-17:00	Friday 26 August 9:00-13:00
Circular Economy in the City <ul style="list-style-type: none"> - Principles, urgency and relevance - Apply Circular Economy on cities - Understand and apply Material Flow mapping - Distinguish and apply circular strategies Work on assignment	Energy & Carbon Accounting <ul style="list-style-type: none"> - Energy use in cities and energy neutral cities - Understanding and categorizing main sources of energy use and greenhouse gas emissions - Energy Poverty Work on assignment	Energy Neutral Neighbourhoods <ul style="list-style-type: none"> - The rationale of energy neutrality for neighbourhoods - Multi-actor and Multi-level perspective - The transformation of existing neighbourhoods Excursion	Mobility <ul style="list-style-type: none"> - Plan, monitor and evaluate mobility projects - Translate general targets into quantifiable goals - Discover how to focus mobility projects on the desired behavioural change Work on assignment and presentation <ul style="list-style-type: none"> - Prepare seminar - Compare with your hometowns 	Wrap up & Seminar <ul style="list-style-type: none"> - Summary of the course - Final presentations - Seminar about Smart Sustainable Cities Certificates

*This a conceptual programme with possible themes, and is meant to give you an impression of the course. The definite subjects still has to be decided on.

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