Free summer school in Utrecht!

Scholarship for travel and accommodation available

Summer School

Smart Sustainable Cities

Utrecht, the Netherlands | August 14 – 23, 2024

What does the city of the future look like? Since the beginning of the 21st century the majority of the world population have lived in urban areas. The Summer School course Smart Sustainable Cities discusses how to boost the sustainable development of cities. In almost two weeks, we will dive into several highly relevant themes such as clean air, mobility, waste, energy, health 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 3 ECTS course students will be working with the handbook for applied research 'Smart Sustainable Cities (Rietbergen, Velzing & Van Stigt (eds), 2021) – included for free.

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 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.

Contact and application:
• Contact home University
• Application via Utrecht Summer School:
https://utrechtsummerschool.nl/courses/engineering-technology/smart-sustainable-cities - Include 'Erasmus Exchange' in motivation

Fees and costs:
• Course fee = 0 euro for Erasmus+ participants (regular price €880.-)
- Dutch lunch included on study days
• Erasmus+ scholarships available via home university, in order to pay for:
- Housing fee via Utrecht Summer School €450,-
- Travel to Utrecht

Preliminary programme overview summercourse Smart Sustainable Cities 14 – 23 augustus 2024 – Utrecht, NL

Monday August 12, 2024		**Wednesday August 14** **09:00-17:00 hr at Padualaan 99**	**Thursday August 15** **09:00-17:00 hr at Padualaan 99**	**Friday August 16** **09:00-17:00 hr at Padualaan 99**
Online meet up - Utrecht Science Park and Centre of Expertise - Handbook - Getting to know the students and lecturers; - Programme - First short introduction on the assignment		**Course introduction** -Introduction on Smart Sustainable Cites -Introduction to the programme, explanation of the assignment, tools for inventarisation area -Getting to know eachother further **Excursion Utrecht Science Park**	**Systemic Design Thinking** -Viewing and structuring the design process by iterations -Double Diamond Model -Involve complex contexts -Present assignment approach **Visit of project site** -Meeting with the client	**Circular Economy: Material and Value Flows in Cities** -Principles, urgency and relevance -Apply CE on cities -Understand and apply Material Flow mapping -Distinguish and apply circular strategies **Work on assignment** -Prepare questions for lecture on Mobility
Monday August 19 **09:00-17:00 hr at Padualaan 99**	**Tuesday August 20** **09:00-17:00 hr at Padualaan 99**	**Wednesday August 21** **09:00-17:00 hr at Padualaan 99**	**Thursday August 22** **09:00-17:00 hr at Padualaan 99**	**Friday August 23** **09:00-13:00 hr at Padualaan 99**
Mobility -Plan, monitor and evaluate mobility projects -Translate general targets into quantifiable goals -Discover how to focus mobility projects on the desired behavioral change **Excursion City of Utrecht + work on assignment** -Prepare questions for lecture on Energy & Carbon Accounting	**Energy & Carbon Accounting** -Energy use in cities and energy neutral cities -Understanding and categorizing main sources of energy use and greenhouse gas emissions -Energy poverty **Feedback and work on assignment** -Prepare questions for lecture on Healthy Urban Development	**Healthy Urban Development** -Create green and quiet places in areas with urban densification -How to participate residents in design? -Use instruments to scan positive or negative impact on health and wellbeing **Excursion City of Utrecht + work on assignment** -Prepare questions for lecture on Design Thinking	**Systemic Design Thinking** -Looking back with the Double Diamond Model -What was the focus of your assignment? -How to visualize your ideas? -Can you test your results? **Prototyping in lab** -Work on your visualizations -Prepare presentations for seminar Friday	**Wrap up & Seminar** -Summary of the course, lessons learned -Final presentations: -Seminar about Smart Sustainable Cities -with external partners -certificates

Application via Utrecht Summer School: https://utrechtsummerschool.nl/courses/engineering-technology/smart-sustainable-cities - Include 'Erasmus Exchange' in motivation