

Syllabus: Berlin as a Smart City

TU Berlin Summer University 2019 Term 2a

Week 1 July 1st-5th

| | 1 | 2 | 3 | 4 | 5 |
|---------------|---|--|----------------------|-------------------------------------|---|
| | Monday | Tuesday | Wednesday | Thursday | Friday |
| 9:00 - 10:30 | Welcome Day! Room H 3005, 3 rd floor, TUB main building 10:30: Orientation session 12:30-13:15: Buffet lunch 13:30-15:30: First class session 15:30-16:15: Campus Tour 16:15-16:45: Coffee & Cake | What is a Smart City & What Role Can YOU Play in It? | How Smart Is Berlin? | Excursion - Smart Mobility & Energy | Excursion - Urban Commons & Citizen Participation |
| 11:00 - 12:30 | | | | | |
| 13:30 - 15:30 | | Cultural Program | Cultural Program | Cultural Program | Cultural Program |
| 16:00 + | | | | | |

Week 2 July 8th-12th

| | 8 | 9 | 10 | 11 | 12 |
|---------------|---------------------------------------|---|---|---|--|
| | Monday | Tuesday | Wednesday | Thursday | Friday |
| 9:00 - 10:30 | Excursion - Open Data & Civic Hacking | Excursion - Circular Economy & Urban Production | Excursion - Smart Home & Smart Building | Excursion - Start-Ups, Accelerators & Venture Capital | International Cooperation & Learning of Cities |
| 11:00 - 12:30 | | | | | |
| 13:30 - 15:30 | Cultural Program | Cultural Program | Cultural Program | Cultural Program | Cultural Program |
| 16:00 + | | | | | |

Week 3 July 15th-19th

| | 15 | 16 | 17 | 18 | 19 |
|---------------|---|--|-----------------------------------|---------------------|---|
| | Monday | Tuesday | Wednesday | Thursday | Friday |
| 9:00 - 10:30 | SUMMER SCHOOL VENTURES: Develop Your Own Idea For A Smart City Start-Up | Design Your Prototype & Business Model | Test & Improve Your Prototype | Final Presentations | Wrap-Up |
| 11:00 - 12:30 | | | Develop Your Pitch & Tell A Story | | |
| 13:30 - 15:30 | | | | | |
| 16:00 + | Cultural Program | | Cultural Program | | Certificates Ceremony Term 2 18:00 Lichthof, 1 st floor, TU Berlin main building Start 18:00 - 20:30 |

Key

| | | | |
|---------|-------------------------|------------|----------------------------|
| Lecture | Field Trip or Practical | Assessment | Cultural Program activity* |
|---------|-------------------------|------------|----------------------------|

*The cultural program timetable will be emailed to you shortly before your course starts. For more information about the cultural program, and for examples of previous schedules, head here: https://www.tu-berlin.de/menue/summer_university/cultural_program/

Assessment information

Your assessment is based in equal parts on your in-class participation and final group presentation.

In-class participation (50%): This course consists of a rich mix of interactive lectures, group discussions, exercises, and field visits. Your active participation in these activities is expected, such as contributing to group discussions, sharing (and journaling) daily reflections and observations, presenting group work to your classmates, preparing and asking questions to guest lecturers, reading up on selected articles before and after field visits as well as researching any other suggestions. It is therefore **strongly required** that you can comfortably express yourself and your thoughts to others in English.

Final group presentation (50%): By the end of the course, you will have to develop and present in groups of 3-4 students a concrete start-up / business idea of how Berlin can be made smarter and more sustainable. Your solution should both be grounded in your experience as a visitor to Berlin as well as all your course-specific observations and knowledge gained during our field visits, expert meetings and class conversations. Your

presentation will also be informed by a comparison of similar approaches and good practices in other cities.

Grading information

All participants of the TU Berlin Summer & Winter University are required to select their grading option at the time of registration. The two options available are (i) graded or (ii) pass/fail.

All participants who select option (i) graded, will receive a grade under the German grading system. The following table provides an overview of the grading system and equivalent scores for international credit transfers:

| Total mark | German grade | English description |
|---------------------|--------------|---------------------|
| More or equal to 95 | 1,0 | Excellent |
| More or equal to 90 | 1,3 | Very good |
| More or equal to 85 | 1,7 | Good |
| More or equal to 80 | 2,0 | Good |
| More or equal to 75 | 2,3 | Good |
| More or equal to 70 | 2,7 | Satisfactory |
| More or equal to 65 | 3,0 | Satisfactory |
| More or equal to 60 | 3,3 | Satisfactory |
| More or equal to 55 | 3,7 | Sufficient |
| More or equal to 50 | 4,0 | Sufficient |
| Less than 50 | 5,0 | Failed |

Credit Points

ECTS is a point system and European standard developed by the Commission of the European Community. ECTS stands for European Credit Transfer System. The aim is to provide common procedures and guarantee academic recognition of studies abroad. The credit system is based on student workload. All lectures, seminars, excursions and homework count towards the workload. One point is awarded for the equivalent of 25-30 hours of workload.

Reading list

During the course there will be weekly & session-specific readings (websites, articles, short reports) circulated, which you are expected to read.

However, if you are new to the smart city topic or want to deepen your understanding of it prior to the start of this course with some introductory readings, here is a short list of some recommended optional readings:

1. Goldsmith, Steven and Kleiman, Neil (2017): ***A New City O/S: The Power of Open, Collaborative, and Distributed Governance (Brookings / Ash Center Series, "Innovative Governance in the 21st Century")***
2. Townsend, Anthony M. (2014) ***Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia***
3. Barber, Benjamin R. (2014): ***If Mayors Ruled the World: Dysfunctional Nations, Rising Cities***