

Lecture

Digital Sustainability Transformation of, by and for the TUM

Winter Term 2021/22
Professorship for Policy Analysis

Information

Dates: Thursday, 4:45 pm – 6:15 pm
 Location: Online streaming via Zoom via <https://tum-conf.zoom.us/j/63763067652>
 Password: DigiSusTUM
Nota bene: Selected dates are in person in H.001, Seminarraum (2910.EG.001)
 (see below marked in grey)
 Organizers: Stefan Wurster, Markus B. Siewert, Lea Buchholz, Lind(a) Rütters
 Information: [Moodle course](#) and [website](#)

Program

Time	Topic
21.10.2021	Introduction and organizational details
28.10.2021	No event
04.11.2021	Lecture with Jens Groeger / Institute for Applied Ecology: “Comparing the energy consumption and CO2 footprints at work vis-à-vis home office”
11.11.2021	Roundtable with Birgit Heinke / Acatech & Nils Heller / Bitkom: “Current innovations and trends for sustainable mobility”
18.11.2021 until 7:15pm!	Workshop with Rauno Fuchs / Green City eV: “The future of urbanity with focus on mobility”
25.11. 2021	Lecture with Julia Kinigadner & Daniel Schröder / both MCube at TU Munich: „Integrated mobility solutions“
02.12.2021	No event (Dies academicus)
09.12.2021	Lecture with Pascal König / Harvard University: „How to ensure accountability of AI in smart city contexts“
16.12.2021	Lecture with Stefan Wurster / TU Munich: “Sustainable wealth funds”
23.12.2021	No event
13.01.2022	Lecture with Max Krahé / Dezernatzukunft: “What does a system of sustainable finance look like?”
20.01.2022 until 7:15pm!	Workshop with Felix Beer / Institute for Future Studies and Technology Assessment: “Who owns the digital transformation” (maybe online)
27.01.2022	Roundtable with Anna Cavazzini / MEP for the Greens & Reinhard von Wittken / Acatech: “European and German Perspectives on Circular Economy”
03.02.2022	Lecture with Seda Akinci & Reinhard von Wittken / both Acatech: “The national Circular Economy strategy and CE business models”
10.02.2022 until 7:15pm!	Workshop with Frederic Weihberger / Waste Management Corporation Munich: “Local waste management” (offline)

Content

Sustainability and digitization are two of the key challenges of our time. Both transformations must be actively shaped, whereby it is crucial to think "sustainability" and "digitization" not only as two separate megatrends but examine their intersections and interplays – in terms of "digitainability" (Gupta et al. 2020; Lichtenthaler 2021). Universities like the TUM have a central role to play in shaping the digital and sustainable transformation: they are learning venues for sustainable/digital development with the goal to educate people; they serve as fora for public discussions and as hubs to connect important stakeholders; they are important incubators for innovations; and they (should) also function as role models for the society.

This term it is possible to only take part in the lecture series and gain 3 ECTS for it. The lecture series will examine questions related to digitainability across four issue areas:

- 1) intelligent sustainable mobility;
- 2) digitalization for the common good;
- 3) sustainable green finance; and
- 4) circular economy & smart waste management.

We will devote three sessions to each thematic area, and explore it from various angles including participatory workshops, lectures, and roundtables with experts from academia, stakeholders and/or political actors. Each session will be organized in cooperation with stakeholders from Munich and beyond to discuss the interlinked opportunities and challenges of sustainability and digitization at various levels.

Accompanying this lecture series, a project-based seminar takes place (POL67001) for which students can enroll separately. The aim here is to co-design and implement student-led projects at TUM which facilitate digital sustainability on various dimensions. If you want to find out more about this module and the work we do at our chair, visit our [website](#) and/or follow us on Facebook, Twitter or Instagram: Instagram: @policytum; Twitter: Professorship Policy Analysis TUM, @PolicyTUM; Facebook: Professorship Policy Analysis, @PolicyTUM

Prerequisites and learning outcomes

This course is aimed at all students enrolled in a Master program at the TUM; it is thus designed as an interdisciplinary venue which brings together a range of scientific perspectives. No specific prior knowledge is required. We are highly encouraging students from other schools and departments at TUM to participate in the lecture series to ensure diverse and interdisciplinary perspectives. After successful participation in this course, students are able:

- to understand and to critically discuss key aspects linked to transformations regarding digitalization and sustainability;
- to analyze how they can actively shape big transformations in their immediate vicinity.

Teaching/ learning methods

The lecture includes synchronous online presentations and discussions formats, as well as participatory in-person workshops. The opportunity to meet in person will depend on the development of the Corona pandemic.

Examination requirements

Over the course of this module, students will have to complete the following tasks: Students have to actively contribute to the lecture by participating in the discussions and by writing two policy briefs. Each policy brief (approx. 5 pages per topic) has to focus on a different thematic area of the lecture (see the four topics above). Each policy brief counts 50% to the final grade. Instead of a policy brief, students can also decide to prepare a blog post, a videoblog or a podcast which can be published on our homepage or our social media channels.