

Project Laboratories and *tu projects* as from summer semester 2020

For socially and ecologically useful thinking und acting

	Project	Description
1	Roof Water-Farm	The project cooperates with the decentralized wastewater treatment plant „ROOF WATER-FARM“ and with practice partners of Berlin's public housing. The project team is researching possibilities for vegetable cultivation in urban areas by using sustainable materials. The goal is the expansion of the pilot greenhouse into a "blue-green classroom" and non-university teaching and learning location of the TU Berlin.
2	Interdisziplinäres Produktlabor English: Interdisciplinary product laboratory	In cooperation with the association „MURKS? NEIN DANKE! e.V.“ (Botch? No, thanks!), the project deals critically with the use of resources, live cycle and the reparability of products and explores alternatives to common disposal methods.
3	Nachhaltige Schmiede English: Sustainable forge	The sustainable forge uses steel scrap from workshops and laboratories at TU Berlin in order to process it further. Participants learn and explore the basics of metallic materials.
4	Praktische Anwendungen von UHPC (Ultra High-Performance-Concrete) English: Practical applications of UHPC (Ultra High-Performance-Concrete)	The project investigates and develops the sustainable use of concrete, especially UHPC. In addition, modular components made of UHPC are discussed, including the production of microtunnel in shield tunneling or prefabricated elements in bridge building, structural and civil engineering.
5	Denk- und Aktionslabor Stadt Land English: Thinking and action lab City Country	The project is dedicated to the district town of Luckenwalde exemplarily, where it founds a thinking and action lab City/Country in a specially designed work space. From there the history of the place will be explored, the social structure recorded and architectural features analyzed. The project aims to achieve a deeper understanding of the region and its particular challenges for the future and develop solutions in cooperation with the mayor and citizens.
6	Modulares Bauen English: Modular construction	The project "Modular Building" deals with clay and low tech. It is about the approaches to sustainable and dignified housing solutions.
7	Prototyp - Autarkes Leben im Gewächshaus-Gebäude-Hybrid English: Prototype - Self-sufficient life in a greenhouse building hybrid	The project focuses on the sustainable use of energy and resources in buildings with the aim of creating a self-sufficient circulatory system.

8	<p>Alternativen zum Plattformkapitalismus - eine kritische Innovationswerkstatt</p> <p>English: Alternatives to platform capitalism - a critical innovation workshop</p>	<p>The platform as the dominant business model of digitization brings along a series of problematic developments. The project deals with this topic theoretically and with alternative concepts and case studies. Finally, own project ideas are developed, e.g. platform cooperatives, alternative data governance concepts, new strategies for labor disputes and social movements, etc.</p>
9	<p>Digitale Inklusion - Crypto für Alle?</p> <p>English: Digital Inclusion - Crypto for everybody?</p>	<p>Which languages do encryption technologies speak? Are privacy and environmental sustainability compatible? Which power relations exist in digital spaces? What does gender have to do with encryption? The project deals with these and other questions. It wants to find out what material, intersectional, and intercultural realities are forming in the context of privacy, activism, and technology development and usage.</p>
10	<p>Innovativer Tierschutz</p> <p>English: Innovative animal welfare</p>	<p>The project deals scientifically with the human-animal relationship. Subjects such as research, the food industry or the private keeping of animals are critically examined from different perspectives. The economic, medical, health, social and ethical status of the animals provides a good basis for discussion. By implementing own project ideas, new approaches in animal welfare education can be developed.</p>
11	<p>Benchmark - Studentische Arbeitsplätze im Freien</p> <p>English: Benchmark - Student outdoor workplaces</p>	<p>The project optimizes the open space qualities of the campus of TU Berlin in a sustainable way. Participants have the opportunity to actively shape their own teaching and learning environment to develop a positive relationship with their campus. Innovative didactic teaching and learning concepts are developed and tested in this project.</p>
12	<p>Bist Du Un_rap_bar?</p> <p>English: Are you un_rap_able?</p>	<p>In this project, cultural-scientific topics are linked together artistically and intermediately. The starting point is a content analysis of the performances of rap artists. In addition to theoretical knowledge, the project will also be followed by practical phases with methods from political education, theater and art education.</p>
13	<p>Gesellschaft ohne Grenzen: Interkulturelle Öffnung in Beruf und Alltag gestalten</p> <p>English: Society without borders: Intercultural openness in work and everyday life</p>	<p>In this project, knowledge about social theory and critical concepts will be developed and transferred to professional and everyday life. Based on this the groups gathers material topics for socially critical workshops. These are tailored to an existing field of action and will be performed with a group of stakeholders.</p>

14	How to TU	The projects aims to examine the history of the university, the evolvement of its organizational structures and crucial actors in the German education and science policy. Using the example of TU Berlin, the project explores how academic self-administration works. It discusses, how university and science are dealing with sexism and racism, post-colonial and feminist perspectives in academic education.
15	Kontrast English: Contrast	This project asks how and for what people and companies can work and live without succumbing to the thrill of monetary gain. It examines the phenomena and reason for the dominant concept of profit and maximization in curricula and lifestyles. This intensive investigation creates a better understanding of unquestioned principles.
16	Offene Schnittstellen im sozialen und nachhaltigen Kontext English: Open interfaces in a social and sustainable context	Challenges on development of sustainable software applications are the focus of this project. In cooperation with „INTEGREAT“ (Digital Factory gGmbH) the project investigates how open interfaces can be used and extended for social and ecological purposes.
17	PARALLAX - a lab exploring the intersection between art & science	PARALLAX is an open maker thinking space, which was founded in the frame of the Open Class (UdK). The goal of the project is to explore transdisciplinary approaches to art. As physicists the students want to understand their environment not only through mathematics and experiments, but also in unambiguous ways, through their senses.
18	Podcast zum öffentlichen Raum & Straßengestaltung English: Podcast on public space & street design	The project is developing a podcast that brings together many different perspectives on public space. Creation, current state / usage and future development of public space are central to finding new scopes of action and to think new and different about the functions of public space.
19	Professionelle pädagogische Beziehungen in der Schule English: Professional pedagogical relationships at school	Attitude, role understanding, motivation, conflicts, communication, power, authority, closeness - distance and feedback are topics that are examined with regard to relationships in a school and educational context. Case discussions, role-playing games, simulations and experiential learning elements ought to improve classical teaching/learning formats and enable learning in different places and with different approaches.
20	SatOps English: SatOps	The project uses Satellites from TU Berlin that are already in the Orbit but no longer in use by the initial research projects. By adopting those satellites for the project, Student learn how to navigate a satellite and explore sustainable ways of satellite operations.
21	BienenWerkSTADT English: Urban BeeWorkshop	The project explores concepts of beekeeping in urban areas from an interdisciplinary perspective. The aim is to draw up a critical inventory of urban beekeeping and to develop more sustainable concepts.

22	MangoLab Mango Lab	The project develops sustainable business concepts for the processing of fruit products in Senegal. In doing so, the team focuses a participative approach by being in constant exchange with local actors.
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