

Syllabus: Blue Engineering TU Berlin Summer University 2020 Term 3

Week 1 July 20th - 24th Multicultural Perspectives on Technology

	20	21	22	23	24
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Welcome Day! Orientation and 1st session (2h)	Getting to know Blue Engineering	Group forming	Excursion to the Waterworks Friedrichshagen	No class
11:00 - 12:30		Guest Lecture: Responsibility in Engineering	Multicultural perspectives on technology	Tour of the Waterworks	Cultural Program
13:30 - 15:30		Responsibility and Codes of Ethics	Cultural Program	Discussion on the Waterworks	
16:00 +					

Week 2 July 27th- 31st Energy, Climate Change and Activism

	27	28	29	30	31
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Climate Change	Excursion to Jänschwalde	Guest Lecture: Activism	What is sustainability?	No class
11:00 - 12:30	Carbon Cycling	Tour of the Lignite mine Jänschwalde	Guest Lecture: Activism	Group work	Cultural Program
13:30 - 15:30	Energy in Motion	Tour of the Powerplant Jänschwalde	Cultural Program	Group work	
16:00 +	Cultural Program				

Week 3 August 3rd - 7th Democracy, Consumption and Power relations

	03	04	05	06	07
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Gender, Diversity and Technology	Introduction to Betzavta	Guest lecture: Fashion Revolution	Excursion to the labor union "IGM"	No class
11:00 - 12:30	Group work	Democracy	Labor, Unions and Society	Excursion to the labor union "IGM"	
13:30 - 15:30	Group work	Democracy	Cultural Program	Discussion on labor and work	
16:00 +	Cultural Program				

Week 4 August 10th- 14th Technology for a better world

	10	11	12	13	14
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Writing your own code of ethics	Group work	Project presentation	Project presentation	No class
11:00 - 12:30	Writing your own code of ethics	Group work	Project presentation	Project presentation	No class
13:30 - 15:30	Reflection	Group work	Project presentation	Project presentation	Certificates Ceremony
16:00 +	Cultural Program				

Key

Lecture	Field Trip or Practical	Assessment	Cultural Program activity*
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*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

You will be assessed in the following ways (see yellow sessions in schedule, if applicable):

- Creation, presentation and execution of a newly created building block, i.e. a self-contained study element.
- Documentation of the newly created building block for further use in educational contexts.
- Keeping of a learning journal across the whole course for self-reflection.
- A short input on technology, nature, the individual, society or democracy, using your country as basis for discussion

Your assessments will be weighted as follows:

- Creation and conduction of a building block 30%
- Documentation of the building block 30%
- Learning journal 30%
- Presentation on a chosen technology 10%

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

Here are reading materials which will be used or referred to during the course. You are not required to read these in advance – this is for your information and reference.

All sources below are available either open source, in the TU Berlin library, or will be provided to you directly by your lecturers, during the course.

To search resources available in the TU Berlin library, check here: <https://www.ub.tu-berlin.de/en/searching-for-resources/>

- 1.) Brand U. (2012). "Beautiful Green World. On the Myths of a Green Economy". Luxemburg Argumente 2, 3, Berlin.
- 2.) Brand U. and Wissen M. (2013). "Crisis and Continuity of Capitalist Society-Nature Relationships: The Imperial Mode of Living and The limits to Environmental Governance". Review of International Political Economy, 20, 4, 687-711.
- 3.) Conlon E. (2008). "The New Engineer: Between Employability and Social Responsibility". European Journal of Engineering Education, 33, 2, 151-159.
- 4.) Horkheimer M. and Adorno T.W. (2002). "Dialectic of Enlightenment. Philosophical Fragments". Stanford University Press, Standford.
- 5.) Demirovic A. (2012) "The green Marx. Democratising societies relation to nature" Luxemburg Zeitschrift 13 3/2012, Berlin.