

## Syllabus: Blue Engineering TU Berlin Summer University 2019 Term 3

### Week 1 July 22<sup>nd</sup>-26<sup>th</sup>

	22	23	24	25	26
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	<b>Welcome Day!</b> Room tbc, building tbc  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	Introduction and getting to know the course	Plastics & Risk technologies	Pre-Excursion: Product cycles	No class
11:00 - 12:30		Introduction and getting to know the course	Group forming	Excursion: Recycling Plant	Cultural Program
13:30 - 15:30		Introduction to TINS-D	Cultural Program	Post-Excursion: Responsibility of the individual in society	
16:00 +					

### Week 2 July 29<sup>th</sup>- August 2<sup>nd</sup>

	29	30	31	1	2
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Gender, Diversity & Technology	Technology and Nature? – Understanding it's tension	Workday: Group work	Excursion: Lignite mine and power plant	No class
11:00 - 12:30	Gender, Diversity & Technology	Guest lecture: Doc. Henning Meyer – Effect of Technology on Nature in Agriculture	Workday: Group work	Excursion: Tour of the lignite mine	Cultural Program
13:30 – 15:30	Living in a Multicultural world	Group work: Peer to Peer Feedback	Cultural Program	Excursion: Tour of the power plant	
16:00 +	Cultural Program				

## Week 3 August 5<sup>th</sup>- 9<sup>th</sup>

	5	6	7	8	9
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Introduction into Betzavta	Excursion: Water supply plant	Technology as a problem solver	Workday: Group work	No class
11:00 - 12:30	Democracy and Society – interacting in a diverse world	Excursion: Tour of the water supply plant	Technology as a problem solver	Workday: Group work	
13:30 – 15:30	Working with Betzavta	Post-Excursion: Cultural dependency on large technological systems	Cultural Program	Workday: Group work	
16:00 +	Cultural Program				

## Week 4 August 12<sup>th</sup>-16<sup>th</sup>

	12	13	14	15	16
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Responsibility and code of ethics	Workday: Group work	Reform of higher educational systems	3rd Project and feedback block	No class
11:00 - 12:30	Responsibility and code of ethics	Workday: Group work	1st Project and feedback block	4th Project and feedback block	Farewell lunch
13:30 - 15:30	Formulating a Blue Engineering code of ethics	Workday: Finishing one's own project	2nd Project and feedback block	Feedback and Reflection on the course	<b>Certificates Ceremony</b> Lichthof, 1 <sup>st</sup> floor, TU Berlin main building
16:00 +	Cultural Program				

### Key

Lecture	Field Trip or Practical	Assessment	Cultural Program activity*	*The cultura
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I 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/](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):

1. Creation, presentation and execution of a newly created building block, i.e. a self-

contained study element.

2. Documentation of the newly created building block for further use in educational contexts.

3. Keeping of a learning journal across the whole course for self-reflection.

4. 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:

## 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.