

Syllabus: Desalination & Renewable Energies

TU Berlin Summer University 2019 Term 4

Week 1 August 19th-23rd

	19	20	21	22	23
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Welcome Day! Room H 0112, ground 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	Introduction	Electro dialyses & membrane distillation	Wind power	Hybridization and Cogeneration
11:00 - 12:30		Membrane processes	Fouling & scaling	Photovoltaics	Economics
13:30 - 15:30		Thermal processes	Cultural Program	Concentrating solar power	Case study Introduction and group selection
16:00 +					Cultural Program

Week 2 August 26th-30th

	26	27	28	29	30
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Lab experiment I	Lab experiment II	Lab experiment III	Lab experiment IV	Case study Questions and answers
11:00 - 12:30	Lab experiment I	Lab experiment II	Lab experiment III	Group presentations	Case study Questions and answers
13:30 – 15:30	Case study Questions and answers	Field trip	Cultural Program	Group presentations	Feedback and Discussion
16:00 +	Cultural Program				Certificates Ceremony Room H3005, 3 rd floor, TU Berlin main building

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):

- Group presentation, on 30th August 2019
- Oral exam, on 30th August 2019

Your assessments will be weighted as follows:

- Group presentation: 60%
- Oral exam: 40%

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. resource 1
2. paper 2
3. book 3
4. book 4