

Syllabus:
Programming in Java
TU Berlin Winter University 2020

Week 1 January 6th -10th

	6	7	8	9	10
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Welcome Day! Orientation and 1st session: Introduction to Programming	Variables and Data Types - I	Conditions and Operators	Loops-I	No class
11:00 - 12:30		Variables and Data Types -II	Field trip to Spy museum	Loops-II	Cultural Program
13:30 - 15:30		Programming exercises	Cultural Program	Programming exercises	
16:00 +					

Week 2 January 13th- 17th

	13	14	15	16	17
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Arrays - I	Functions and Modules -I	Programming exercises	- Methods - I	No class
11:00 - 12:30	Arrays - II	Functions and Modules -II	Field trip to Computerspielmuseum	Methods - II	Cultural Program
13:30 - 15:30	Programming exercises	Programming exercises	Cultural Program	Programming exercises	
16:00 +	Cultural Program				

Week 3 January 20th- 24th

	20	21	22	23	24
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Graphical User Interfaces	Inheritance in Java-I	Data Type	Sorting and Searching-I	No class
11:00 - 12:30	Programming exercises	Inheritance in Java-II	Field trip to Technikumuseum	Sorting and Searching-II	
13:30 – 15:30	Programming exercises	Programming exercises	Cultural Program	Programming exercises	
16:00 +	Cultural Program				

Week 4 January 27th-31st

	27	28	29	30	31
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:30	Programming exercises	Programming exercises	Case Study - III	Exam	No class
11:00 - 12:30	Input and Outputs - I	Case Study - I	Course recap I	Exam review	Course review
13:30 - 15:30	Input and Outputs - II	Case Study - II	Course recap II	Literature and tools	Certificate 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):

- Presentation of first prototype
- Presentation of pre-final prototype
- Final presentation

Your assessments will be weighted as follows:

- Presentation of first prototype 20 %
- Presentation of pre-final prototype 20 %
- Final presentation 60 %

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/>