

Module Overview B. Sc. Civil Engineering and Geodesy - Geodesy Profile (12 Semesters)

Degree Programme Guidelines as per 01.10.2016, Version 16.01.2017

The degree programme consists of 180 Credit Points (CP) in total:

- ▶ General Mandatory Modules (both profiles): 70 CP ■
- ▶ Mandatory Specialised Courses: 53 CP ■
- ▶ Optional General Courses: 36 CP ■
- ▶ Bachelor's Thesis: 9 CP ■

Language of Tuition:
GERMAN
Certificates required



This leads to the following *possible* part-time semester course schedule:

| 1. Semester | 2. Semester | 3. Semester | 4. Semester | 5. Semester | 6. Semester |
|--|--|---|---|--|---|
| Mathematics I (8 CP) | Mathematics II (8 CP) | Mathematics III (8 CP) | Differential Geometry and Geodesy (6 CP) | Descriptive Geometry (6 CP) | Basic Project Real Estate (6 CP) |
| Engineering Mechanics I (6 CP) | Physics (8 CP) | | Fundamentals of Geodesy (6 CP) | Basics of Engineering Informatics (6 CP) | Municipal Land-Use Planning I (6 CP) |
| Introduction to Planning, Designing and Construction (6 CP) | | Surveying I/II (8 CP) | | Engineering Mechanics III (6 CP) | Metrology (6 CP) |
| 17 CP | 15 CP | 16 CP | 16 CP | 18 CP | 18 CP |
| 7. Semester | 8. Semester | 9. Semester | 10. Semester | 11. Semester | 12. Semester |
| Geo-Databases (6 CP) | Image Processing (5 CP) | Photogrammetry I (6 CP) | Remote Sensing I (6 CP) | Bachelor's Thesis (9 CP) | |
| Parameter Estimation I (6 CP) | Land Tenure, Land Readjustment and Real Estate Management I (6 CP) | Satellite Geodesy I and Navigation I (6 CP) | Physical Geodesy I and Reference Systems I (6 CP) | | |
| Sensor Systems I (6 CP) | Engineering Geodesy I (6 CP) | | Geoinformation Systems I (6 CP) | Optional General Courses* (6 CP) | |
| 18 CP | 17 CP | 12 CP | 18 CP | 7 CP | 8 CP |

* Other courses from the TU Darmstadt course catalogue, which allow students to attend interdisciplinary classes