# MODULE DESCRIPTION

| Abbr. | Description | Lecturer |
|---|---|---|
| **BA_F2** | **Structural Mechanics II** | **Zhang** |

| Position in the study progress, time extent, credit points | Module responsible |
|---|---|
| 4. Semester, 4 SWH, 4 CP | Zhang |

**Applicability, offer frequency**

| Study program: | Bachelor | Module type: | Obligatory | Offer: | Yearly |
|---|---|---|---|---|---|

**Admission requirements for examination**

Successful final examination of the 1. study period. Approved home works.

**Achievement and examination forms, requirements, work expenditure, credit points**

| Form of achievement | Requirements | Work expenditure | CP | Mark weights |
|---|---|---|---|---|
| Presence, self-study | | 90 h | | |
| Home works | Written elaborations. Approved home works. | 30 h | | |
| Examination | Examination, duration 2h | | | 100 % |
| | **Sum** | **120 h** | **4** | **100 %** |

**Which technical, methodical and practical contents will be conveyed?**

- Supplements to the stiffness method
- Influence lines of statically determinate and statically indeterminate systems
- Spatial bat and rod structures
- Introduction into membrane, plate and shell structures
- Fundamentals of membrane theory
- Fundamentals of plate theory

**Which technical/methodical competence and key qualifications should be gained?**

In this course, deeper insight into the knowledge on the stiffness method for bar and rod structures is given. Furthermore, the students should learn structural mechanical methods for the determination of influence lines, internal forces/moments and deformations of spatial bar and rod structures as well as membrane and plate structures.