Welcome to the Graduate School!

This booklet contains everything you need to know about the track Structural Engineering and Design (SED).

TRACK SED

The track Structural Engineering and Design (SED) of the master program ABP prepares you for a professions such as a structural engineer, researcher or construction manager.

The two-year track consists of multiple components for a total of 120 credits (ECTS). The core courses of the SED track focus on knowledge and application of structural materials as well as several methods to solve mechanical problems. By choosing courses, design- and research projects in the elective space, you can acquire individual knowledge and competences within the specific fields.

See the next page for an overview of the program’s contents.

SPECIALIZATION AND GRADUATION

To complete your education you must do a Graduation Project (45 ECTS). You can graduate on a topic of your interest, following the specialization courses you chose. Contact one of the professors to discuss the possibilities and to create a graduation plan.

Good to know:

- Check the Education Guide (educationguide.tue.nl/gs/abp) for the complete ABP-CME course overview, including all elective courses.
- In the space for elective courses, you may choose courses from other tracks.
- You can follow one of the certificate programs if you are interested in the subjects of Construction Technology, Building Design & Technology and/or Circular Design in the Built Environment (see Education Guide).
- Graduation projects start every quartile and normally take 3 quartiles to complete.

Core courses

- Advanced steel and aluminum structures
- Energy and finite element methods
- Advanced concrete structures
- Structural Design
- Geotechnics, Soil Mechanics and Seismic structural design
- Structural design, capita selecta
- Structural design with glass and other materials
- Timber Structures
- Digital Design & Manufacturing
- Graduation Project SED

Specialization electives

- Research project
- Design project Large Span Structures
- Design project High Rise Building
- Geotechnics, Soil Mechanics and Seismic structural design
- Structural design, capita selecta
- Structural design with glass and other materials
- Timber Structures
- Digital Design & Manufacturing
- Graduation Project SED

Electives

- 7KP1M0 Research project
- 7KP2M0 Design project Large Span Structures
- 7KS2M0 Design project High Rise Building
- 7KP1M0 Geotechnics, Soil Mechanics and Seismic structural design
- 7KT1M0 Structural design, capita selecta
- 7KT2M0 Structural design with glass and other materials
- 7KP3M0 Timber Structures
- 7KP7M0 Stability of Structures
- 7KP4M0 Advanced concrete structures
- 7KP6M0 Energy and finite element methods
- 7KP4M0 Advanced steel and aluminum structures
- 7KP7M0 Stability of Structures
- 7KP4M0 Advanced concrete structures
- 7KP6M0 Energy and finite element methods

Choose 30 ECTS out of 52.5 ECTS

See the next page for an overview of the program’s contents.

CALENDAR 2020-2021

Q1

- 24-27 aug* Master kick-off
- 31 aug Start academic year
- 7-11 sep Create a PSP and discuss it with your mentor
- 25 sep* MomentUm
- 11 oct Registration closing date for exams Q1 and courses Q2
- 26 oct-7 nov Exams

Q2

- 21 dec-1 jan Christmas Holidays
- 3 jan Registration closing date for exams Q2 and courses Q3
- 18-30 jan Exams
- Feb (t.b.a.)* Bouwkunde Bedrijvenhagen

Q3

- 15-19 feb Carnival Holidays
- 21 mar Registration closing date for exams Q3 and courses Q4
- 2 apr Good Friday
- 5 apr Easter Monday
- 5-17 apr Exams

Q4

- 26-27 apr King’s Day
- 5 may Liberation Day
- 13-14 may Ascension Day
- 24 may Whit Monday
- 6 jun Registration closing date for exams Q4
- 21 jun-3 jul Exams

- 9-14 aug Interim exams

*Time/location may vary depending on the situation at the time
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**PROGRAM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Quarter</th>
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<tr>
<td>7KP3M0</td>
<td>Advanced steel and aluminum structures</td>
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<td>Resource Efficient Structural Design</td>
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<td>Energy and finite element methods</td>
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<td>7KP7M0</td>
<td>Stability of Structures</td>
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<td>7KP1M0</td>
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<td>7KP2M0</td>
<td>Design project Large Span Structures</td>
<td>1-2 / 3-4</td>
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<td>Design project High Rise Building</td>
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<tr>
<td>7KT1M0</td>
<td>Structural design, capita selecta</td>
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<tr>
<td>7KT2M0</td>
<td>Structural design with glass and other materials</td>
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<td>7PP9M0</td>
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<td>7K45M0</td>
<td>Graduation Project SED</td>
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</tbody>
</table>

**Specialization electives**

- Aluminum structures: J. Maljaars
- Applied mechanics: A.S.J. Suiker, H. Hofmeyer*
- Concrete structures: T.A.M. Salet, S.N.M. Wijte
- Glass structures: J.L.F. Belis
- Innovative structural design: P.M. Teuffel
- Masonry structures: A.T. Vermelhoof
- Steel structures: H.H. Snijder
- Structural Design: S.P.G. Moonen*

*Associate professor

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The study associations of the Built Environment organize workshops, excursions, lectures and leisure activities. Join a committee to meet new people, learn new skills, and have fun. For SED students there is KOers. (www.koerstue.nl)

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- Broaden your horizon at Studium Generale: lectures, debates, concerts, theatre, movies and more! (www.studiumgenerale-eindhoven.nl)
- Find career related activities and workshops on MyFuture (myfuture.tue.nl)

International experience? We recommend you to go abroad for a study semester or a 15 ECTS research internship. Check the Education Guide or contact Henny Houben (h.a.m.houben@tue.nl).

Internships You can also do an internship in the Netherlands in the space for electives. Depending on the internship you can earn 5 ECTS (relevant work experience) or 15 ECTS (academic research).

Handy! Cut this folded page and use the calendar on the back side as a bookmark for your agenda.

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See the next page for an overview of the program’s contents.
COACHING AND ADVICE
As a TU/e student, you are responsible for your own study progress and we expect a pro-active attitude. Of course, we will help you when needed.

During the master you can discuss your personal study plan, career possibilities and elective choices with your mentor. Please contact the coordinator of the unit SED (Faas Moonen, s.p.g.moonen@tue.nl), who will assign a mentor to you.

Should you have questions regarding the curriculum, your study progress, or any personal circumstances, please visit the Education & Student Affairs Office. An appointment with the academic advisor can be made online (educationguide.tue.nl/organization/advisors-and-tutors/academic-advisor/built-environment).

TO-DO LIST
Start of well and check this list!

☐ Familiarize yourself with the ABP-CME course overview in the Education Guide to find out which electives, possibly belonging to other tracks, you would like to follow.

☐ Seek out possibilities for a study semester or internship abroad. Check the Education Guide or contact Henny Houben (h.a.m.houben@tue.nl).

☐ Make your personal study plan (PSP). This plan is the basis for your master and consists of all your courses and projects, as well as your planning. Deliver the PSP to the Education & Student Affairs Office.

MORE INFORMATION
Education & Student Affairs Office (Built Environment)
Vertigo 2.30* (12:00-14:00)
esa.be@tue.nl
telephone: 040 247 4800

And check out these webpages:

- Education Guide ABP for department-specific information on curriculum, regulations (PER!), and more (educationguide.tue.nl/gs/abp)
- Education Guide (general) for more general topics (educationguide.tue.nl)
- OSIRIS for a complete course catalogue, your exam results and your study progress (via MyTU/e or osiris.tue.nl)
- CANVAS here you can find the study guide with the planning and assignments for your courses (via MyTU/e or canvas.tue.nl)
- Intranet for information about the department and facilities such as the student workshop (intranet.tue.nl/BE)

We need your help to improve our education!
Please fill in our course evaluations and send suggestions for improvements and complaints to the Master coordinator Koos Blankestijn (j.blankestijn@tue.nl). Complaints on examinations can be sent to the Examination Committee (ec.be@tue.nl)

* Temporary location ESA desk instead of VRT 2.12