

# Program structure Mechanical Engineering in Practical Networks (B.Sc.)

- Start of studies: SoSe 2019 or later -

8	Applied Scientific Project			Bachelor Thesis and Colloquium			Professional activities during the semester vacation
7	Project		Electives	Electives	Moduls of Deepening	Moduls of Deepening	
6	Design and Construction - Methods and Transmission Principles	Technical Mechanics, Part 4	Control Engineering	Hydraulic and Electric Drives	Moduls of Deepening	Moduls of Deepening	
5	Electrical Engineering and Metrology and Measurement Engineering	Thermodynamics	Technical Management	Vocation training (three days a week + during the semester vacation)			
4	Design and Construction - Drive Train	Technical Mechanics, Part 3	Fluid Mechanics				
3	Design and Construction - Bearings and Joining Technique	Strength of Materials	Physics Fundamentals				
2	Fundamentals of Production Technology	Mathematics for Mechanical Engineers	Orientation and Methods				
1	Design and Construction - Engineering Drawing and CAD	Fundamentals of Applied Mathematics		Statics	Informatics for Mechanical Engineering	Introduction Materials Science and Engineering	
Vocation training (full-time)							

Electives (7th Semester)	Deepenings / Special Programmes	Vocation Training
The electives can be selected - without further approval - from a catalogue published within the university, provided that places are available. If electives that are not listed in the catalogue are to be provided, a learning agreement must be cluded.	<ul style="list-style-type: none"> <li>- Energy Technology</li> <li>- Development and Konstruktion</li> <li>- Automotive Engineering</li> <li>- Engineering Pedagogics</li> <li>- Agricultural Mechanical Engineering</li> <li>- Manufacturing Engineering</li> <li>- Integrated Studies Abroad</li> <li>- European Project Semester (EPS)</li> </ul>	The professionally suitable vocational training takes place in close connection with the study of mechanical engineering. It is designed for three years and starts one semester full-time before studying. In the semesters two to five: 3 days training / 2 days study. In semesters six to eight: full-time studies. In addition: training / professional activities in the semester vacation in the training company.

All modules are offered in the German language (Exception: language modules).