Semester	Modules	CP
1. Sem	Mathematics 1; Experimental Physics; Chemistry for Engineers; Statics; Product Presentation and Modelling (CAD)	28 CP
2. Sem	Mathematics 2; Physics Lab; Chemistry Lab; Mechanics of Materials; Material Science; Product Dimensioning; Business Administration for Engineers	30 CP
3. Sem	Mathematics 3; Dynamics; Materials Lab; Introduction to Electrical Engineering; Thermodynamics; Programming Basics; Product Development	29 CP
4. Sem	Fluid Mechanics; Measurement Technology and Sensors; Control Technology; Engineering Materials; Product Develop-ment; Digital Development Processes and PLM; Compulsory Elective	30 CP
5. Sem	Measurement Technology and Sensors; Drive Systems and Components; Industry 4.0; Mechatronic Systems; Finite-Element-Method; Multibody Systems; Compulsory Elective; Communi-cation and Moderation; Project Manage-ment	32 CP
6. Sem	Machine Dynamics; Introduction to Computational Fluid Dynamics; Heat and Mass Transfer; Verification and Validation / Systems Engineering; Development Project; Mechanical Engineering Project	31 CP
7. Sem	Industrial Placement; Bachelor Thesis and Colloquium	30 CP

- Natural Sciences Basics
- Engineering Basics
- Non-Engineering Modules
- Engineering Modules
- Specialisation Digital Product Development
- Project / Industrial Placement / Thesis