Fundamentals Development of technical systems	Dissemination and interconnectedness of knowledge Development of systemic comprehension
General and inorganic chemistry	Scientific research in the context of operational systems
Direct current and alternating current techniques	Process systems
Mathematics	Project planning of technical systems
Engineering Mechanics	Production planning and management
Technical physics	Operation of technical systems
Computer Science	Propulsion and operation systems
Engineering mathematics	Industrial engineering
Statistics	Modelling and simulation
Applied Physics – Physical Designs	Engineering of technical systems
Control system engineering	Plant and process design
Technical Communication and Documentation	Embedded systems
Technology Management	Construction of technical systems

Intensification of knowledge in the respective field of study

Electrical Engineering	Mechanical Engineering	Mechatronics	Computer Engineering	Process Technology
Direct current and alternating current techniques	Engineering Mechanics	Engineering Mechanics	Introduction to computer engineering	General and inorganic chemistry
Experimental foundation in direct current and alternating current techniques	Mechanics of Materials	Experimental foundation in direct current and alternating current techniques	Organisation of information and communication systems	Organic chemistry
Electrical Machines	Methodical design	Mechanics of Materials	Databases of technical programming	Thermodynamics
Electronic components	Materials Science	Computer Science	Introduction to Network Engineering	Physical chemistry
Technical Electrodynamics	Machine parts – joining techniques	Foundations of technical programming	Databases	Fluid mechanics
Digital Signal Processing	Mechanics: kinematics	Electronic components	Basics in theoretical IT-algorithms and data structures	Technical chemistry
Power electronics	Computer Aided Design	Machine parts – joining techniques	Digital Signal Processing	Unit operations in process engineering
Circuit design and technology	Design of technical assemblies	Technical Electrodynamics	Software Engineering	Chemical Process Technology
Digital electronics and computer architecture	Methodology of material selection	Topics in Programming for Technical Applications	Digital electronics and computer architecture	Modeling of chemical engineering processes
Digital systems and control systems laboratory	Module draft calculation of static systems	Measurement and sensor technology	Topics in Programming for Technical Applications	Plant and process design
Measurement and sensor technology	Hydraulics and pneumatics	Hydraulics and pneumatics	Networking: Networking Basics	Hydraulics and pneumatics
Automation systems	Machine parts – gear and clutch techniques	Machine parts – gear and clutch techniques	Distributed Systems	Materials Science
Process control and control technology	Propulsion and operation systems	Process control and control technology	Digital systems and control systems laboratory	Refrigeration engineering
Embedded systems	Dynamics of machinery	Embedded systems	Usability & (software-) ergonomics	Basic Principles of Plastics Engineering
Modelling of Electrical Components	Modelling of Mechanical Components	Production Infomatics	Big Data	Special Polymers and Bioplastics